RMR SCREENING SUMMARY July 2022

GENERAL INFORMATION

Project C-R-S / Name:	WOO-65-23.39	PID:	107711	District:	02
Brief Project Description:	The project is located in Rossford, Ohio and involves the improvement of approximately 0.08 miles of S.R. 65 (Dixie Highway) including the replacement of the structure over Grassy Creek north of the intersection of S.R. 65 and Rossway Avenue.				
Report Author(s):	Eric P. Slosser				
Affiliation:	CAP-STONE & Associates, Inc. dba Stone Environmental Engineering & Science				

CERTIFICATION *(Must be acknowledged by Prequalified Individual)*

☒	I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.

Name:	Eric P. Slosser	Signature:	Eric P. Slosser
Title:	Senior Environmental Scientist	Date:	1/9/2023
Email:	ericslosser@stoneenvironmental.com	Phone Number:	614-865-1874

BLOCK 1

1a:	Does Permanent right-of-way (ROW) need to be obtained for the Project?	Yes
1b:	Will the Project involve excavations greater than 6 feet deep (excluding projects which only include signal pole installation)?	Yes
1c:	Is the Project on the 513 Exemption listed?	No
1d:	Is the Project within 300-feet of a landfill?	No

- *If answer to Questions 1a and/or 1b are **Yes** or **UNKNOWN**, skip Questions 1c and 1d and continue to Block 2.*
- *If answer to Questions 1a and 1b are **NO** and 1c is **YES** – **Stop Here**. Project is exempt from further evaluation. Complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form).*
- *If answer to 1a, 1b and 1c are **NO**, conduct a Landfill Specific ORPS.*
- *If answer to 1d is **NO**, complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form), Landfill Specific map and Summary ORPS to EnviroNet. Project is exempt from further evaluation.*
- *If answer to 1d is **YES**, complete through Block 1 as documentation of the RMR Screening and upload the RMR Screening Summary Sheet (this form) and Landfill Specific map and Summary ORPS to EnviroNet. Send Project to OES for Rule 513 determination.*

BLOCK 2 – COMPLETE FULL ORPS AND PROPERTY INVENTORY

Complete Columns 1-6 of the "Property Inventory: Properties Within or Abutting" and (if applicable) Complete "Remote Property Inventory" tables.

BLOCK 3 – INITIATE PROJECT SCREENING

Are all Properties within the Project Limits Exempt OR have no Take and no Deep Excavation; AND Project is not with 300 feet of a Landfall and/or there are no Remote Properties identified in ORPS Listing?	No

If the answer is YES – Upload this Form and attachments to EnviroNet; the Project is considered Exempt from further evaluation for Regulated Materials. If the answer is No or Unknown - Complete the Property Inventory (Columns 7-10).

PROPERTY INVENTORY: PROPERTIES WITHIN OR ABUTTING PROJECT LIMITS

Property Inventory: Properties Within or Abutting Project Limits

Column 1			Column 2		Column 3	Column 4	Column 5	Column 6			Column 7		Column 8	Column 9
ODOT / RMR Property ID#	Tenant / Owner Name	Property Street Address	Current Land Use	Current or Past RM Concern Noted during Review?	Select RCRA ORPS Listing(s). (Check all that apply.)	Select ORPS Listing(s). (Check all that apply.)	What Is the determined Land Use Risk based on Columns 2, 3 and 4	Total or Partial Take?	Is There Demolition?	Is There Deep Excavation?	Is the Property Likely Impacted by RM?	Is Property RM Likely Encountered in Construction?	Action Result?	Comments
RM-020	Residential. Owned by Brian & Bethany Brandvold.	916 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-80040900300 0 & T68-300-80040900400 0).	Residential If "Other" land use selected, explain here.	No If yes, note RM concern here.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If "Other" selected, explain here.	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If "Other" selected, explain here.	Exempt	No Take	No	No	No Cite impact concerns here, if any.	No Cite impact concerns here, if any.	RMR Complete	Step 9B
RM-021	Speedway. Owned by Emro Marketing Company.	939 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-80041402100 0 & T68-300-80041402000 0).	Gas Station If "Other" land use selected, explain here.	Yes Gas/Filling Station	☐ No RCRA ☒ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☒ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If "Other" selected, explain here.	☐ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☒ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If "Other" selected, explain here.	High	No Take	No	Yes Deep excavation 180+ feet away from the UST location and the gas station is located upgradient.	Yes Gas/Filling Station	Yes Tier 1 Investigation in progress.	RM Plan Note	Step 11A. Six releases have been reported at the site. Three of the releases have been disproved. Information from the BUSTR files indicates that two of the reported releases have No Further Action status; however, soil at the site was above BUSTR 2017 re-use levels. One of the six reported releases is active. A Site Check indicated concentrations of chemicals of concern in soil and groundwater samples were above BUSTR action levels and re-use levels. During 2022 BUSTR requested that a Tier 1 Investigation be performed at the site. As of January 9, 2023 a Tier 1 investigation has not been performed and the status of the release in "Deficient."
RM-022	Residential. Owned by Cynthia L. Deck.	958 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-80040900200 0 & T68-300-80040900100 0).	Residential If "Other" land use selected, explain here.	No If yes, note RM concern here.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments)	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments)	Exempt	Partial Take	No	Yes	No Cite impact concerns here, if any.	No Cite impact concerns here, if any.	RMR Complete	Step 10

					If “Other” selected, explain here.	If “Other” selected, explain here.								
RM-023	Toddler's School/ Rossford Laundry & Tan (Formerly known as D&D Cleaners and Laundry Center). Owned by Jordan Michael Tersigni LLC.	943 & 945 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-800414018000).	Dry Cleaner If “Other” land use selected, explain here.	Yes Dry cleaner facility in the past.	☐ No RCRA ☒ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☒ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If “Other” selected, explain here.	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If “Other” selected, explain here.	High	No Take	No	Yes	Yes Former dry-cleaning facility; unknown how long ago the services stopped.	Yes Former dry-cleaning facility; unknown how long ago the services stopped.	RM Plan Note	Step 11A The site has a listing for RCRA VSQG and its handler/facility classification is “unspecified universe.” As of 01/06/2023, no violations have been reported in regards to the RCRA VSQG listing. The site appears to be a laundry mat and tanning facility now and no longer offers dry cleaning as a service (it’s unclear on when they stopped offering the dry-cleaning service).
RM-024	Greater Midwest Urgent Cares, Rossford Family Practice, Rex Huffman; Spitler Huffman, LLP. Owned by Robert A. & Linda A. Schmidt.	928-932 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-800408001201).	Hospital If “Other” land use selected, explain here.	No If yes, note RM concern here.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If “Other” selected, explain here.	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If “Other” selected, explain here.	Low	Partial Take	No	Yes	No Cite impact concerns here, if any.	No Cite impact concerns here, if any.	RMR Complete	Step 10
RM-025	Undeveloped/ Forested Land. Owned by the City of Rossford.	0 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-800414017000).	Undeveloped/Forested If “Other” land use selected, explain here.	No If yes, note RM concern here.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If “Other” selected, explain here.	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If “Other” selected, explain here.	Exempt	No Take	No	Yes	No Cite impact concerns here, if any.	No Cite impact concerns here, if any.	RMR Complete	Step 10

RM-026	Commercial Office Building with unlisted tenants. Owned by C&J Business Enterprises LLP.	859 Dixie Hwy, Rossford, OH 43460. Parcel number (#T68-300-800414016000).	Commercial (bank, office, store, lodging, care) If "Other" land use selected, explain here.	No If yes, note RM concern here.	☒ No RCRA ☐ CESGQ/SQG ☐ LQG ☐ CORRACTS ☐ Non-CORRACTS ☐ Unspecified Universe ☐ TSD ☐ Non-Generator ☐ Other (Specify in Comments) If "Other" selected, explain here.	☒ No ORPS ☐ CERCLIS/NFRAP ☐ I/E Control ☐ UST/LUST ☐ NPL ☐ Ohio VAP ☐ SPILLS ☐ SWF ☐ Town Gas ☐ DERR Database ☐ Other (Specify in Comments) If "Other" selected, explain here.	Low	No Take	No	Yes	No Cite impact concerns here, if any.	No Cite impact concerns here, if any.	RMR Complete	Step 10.

Use ⊕ button (bottom-right corner of table) to add rows for each property as needed.

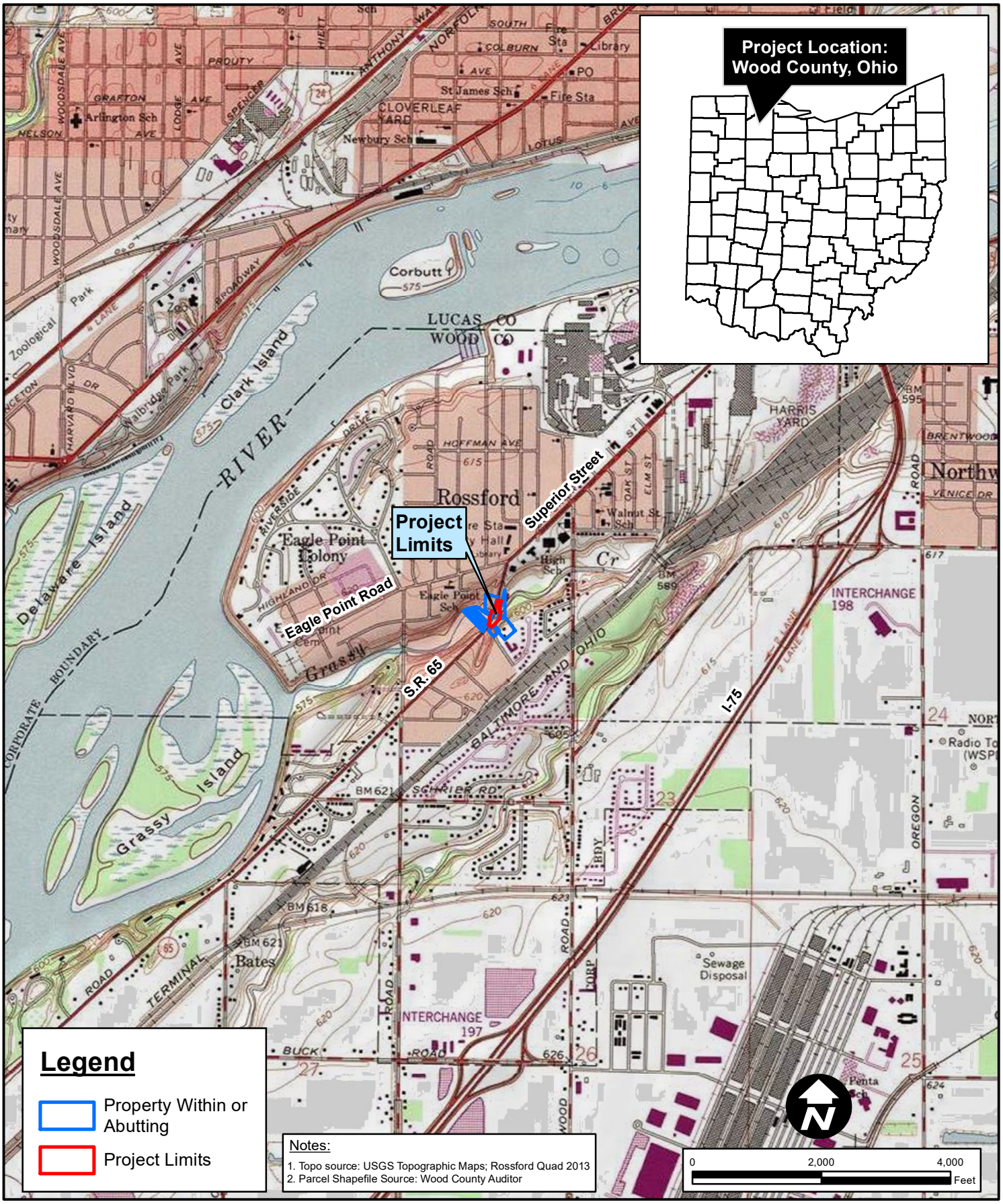


Figure 1 Drafted By: JSB Reviewed By: MES Project: C1092-009-21	**USGS TOPOGRAPHIC MAP** WOO-65-23.39 (PID 107711) Rossford, Wood County, Ohio	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE Date: January 03, 2023

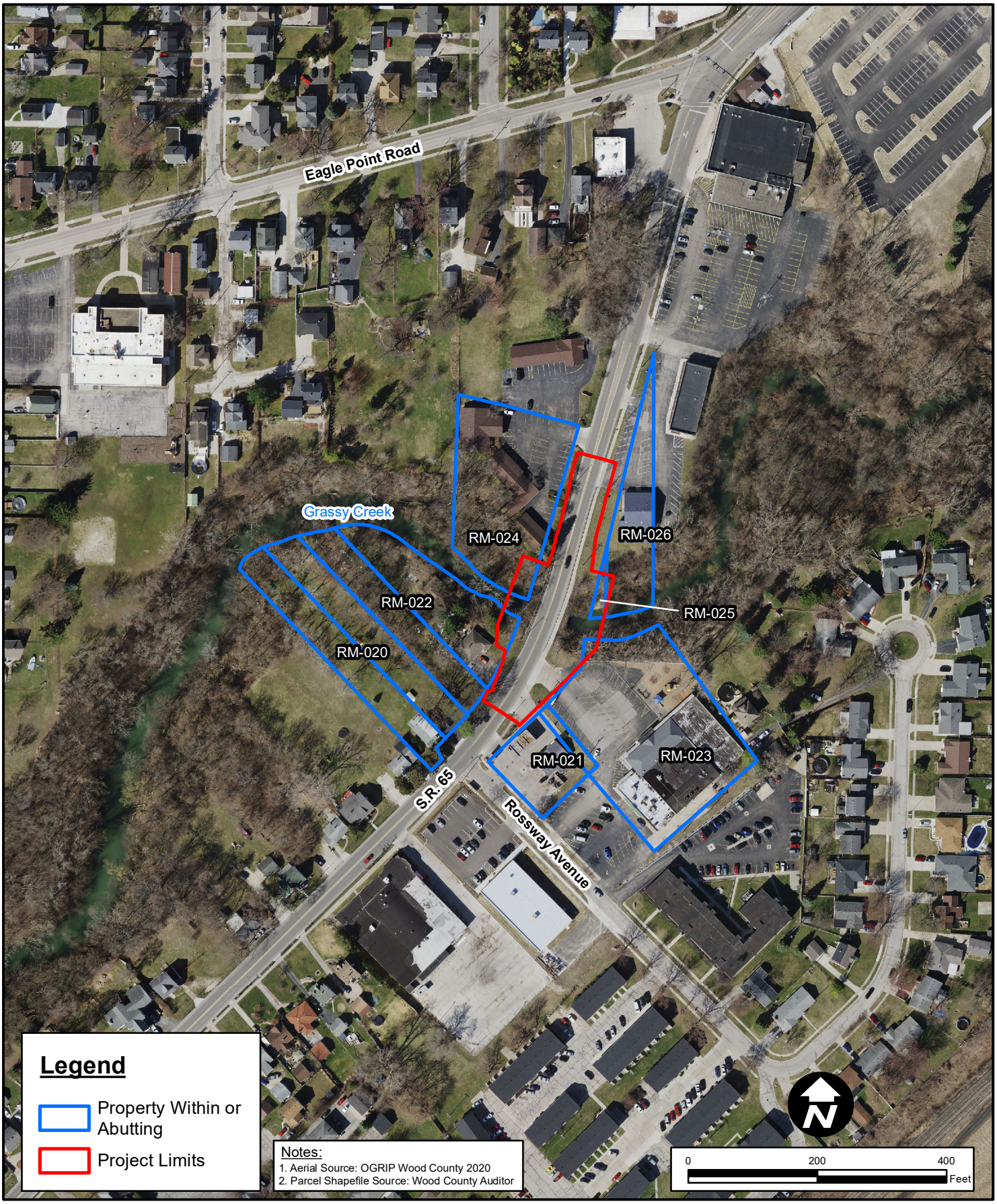
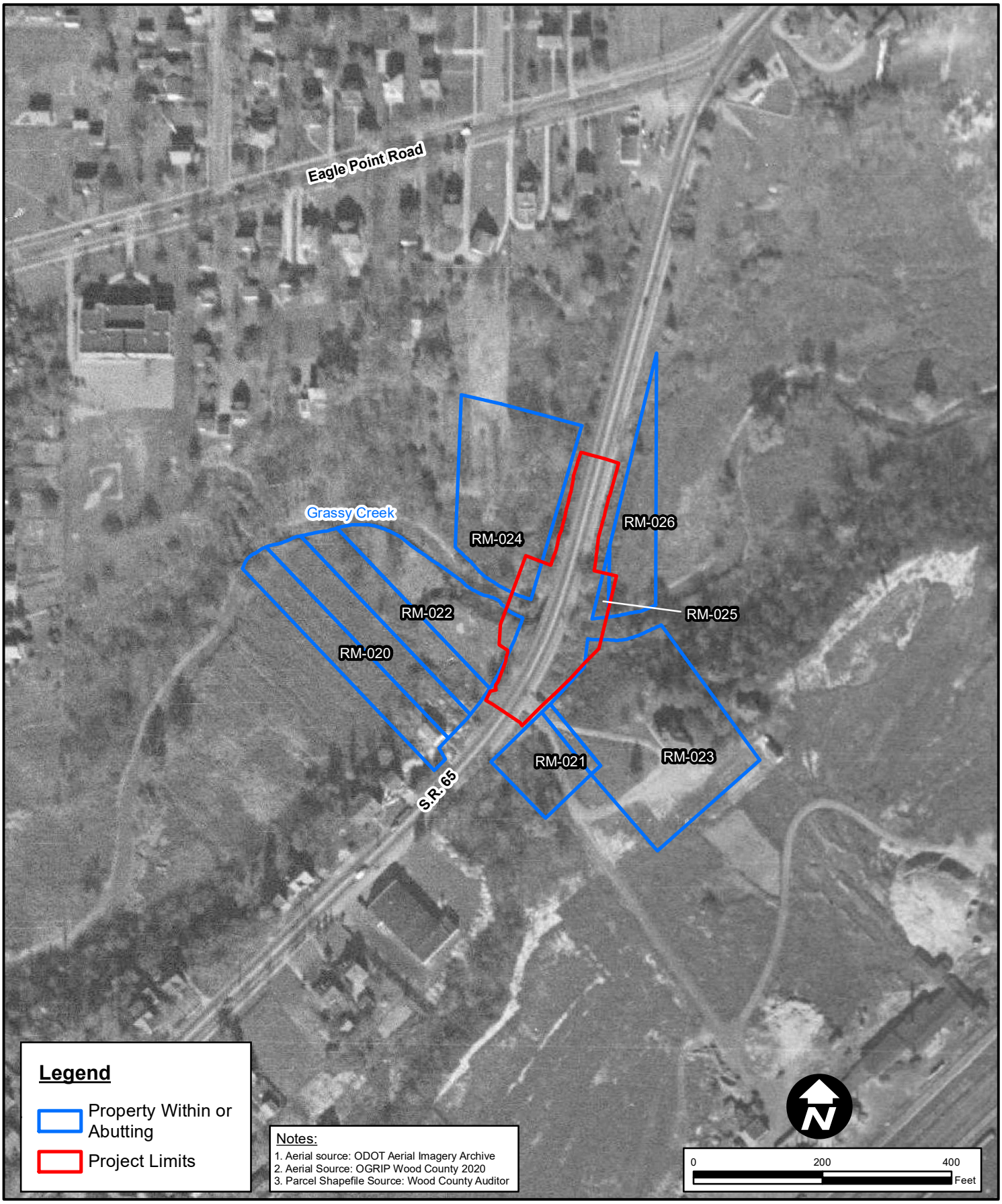
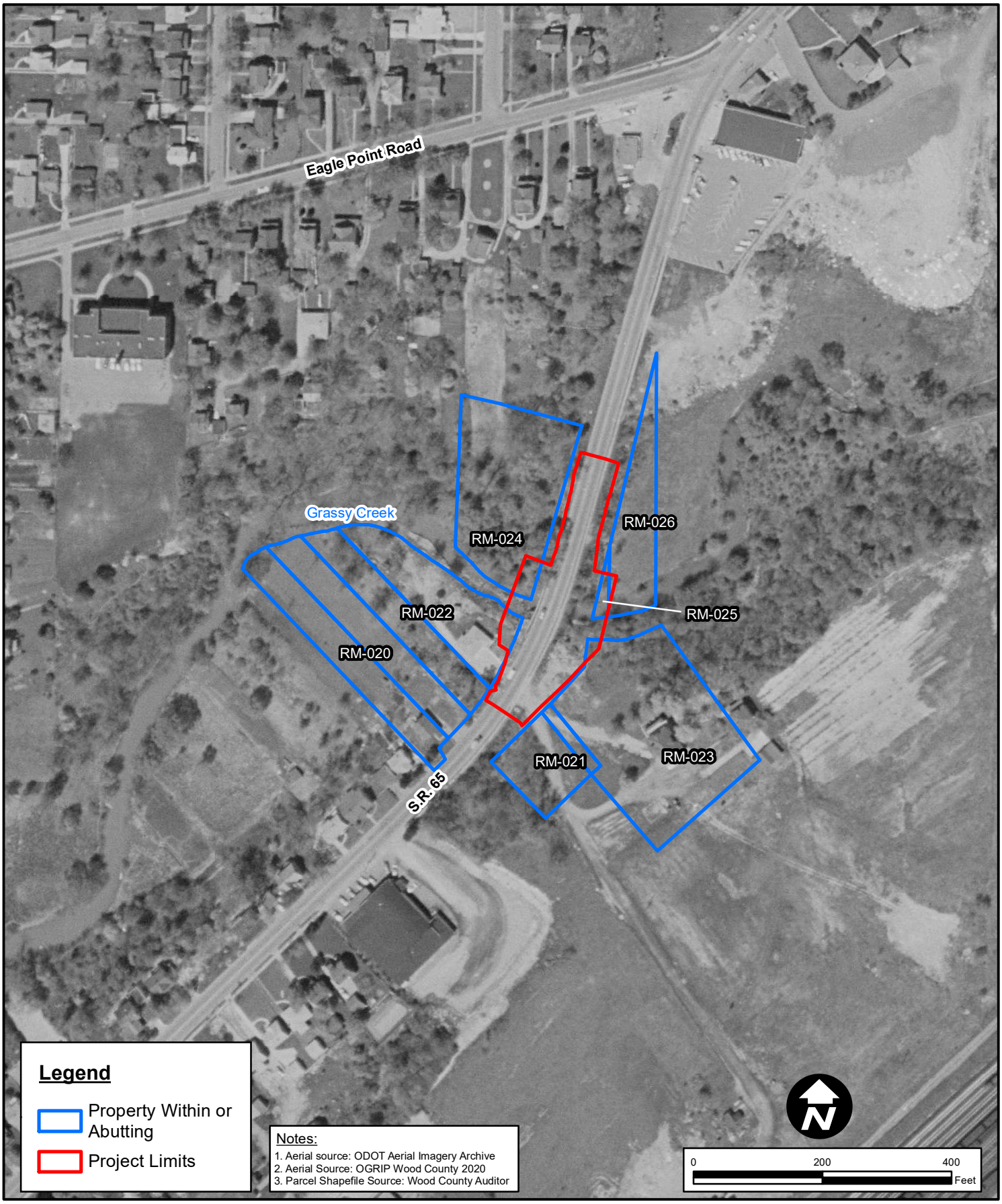


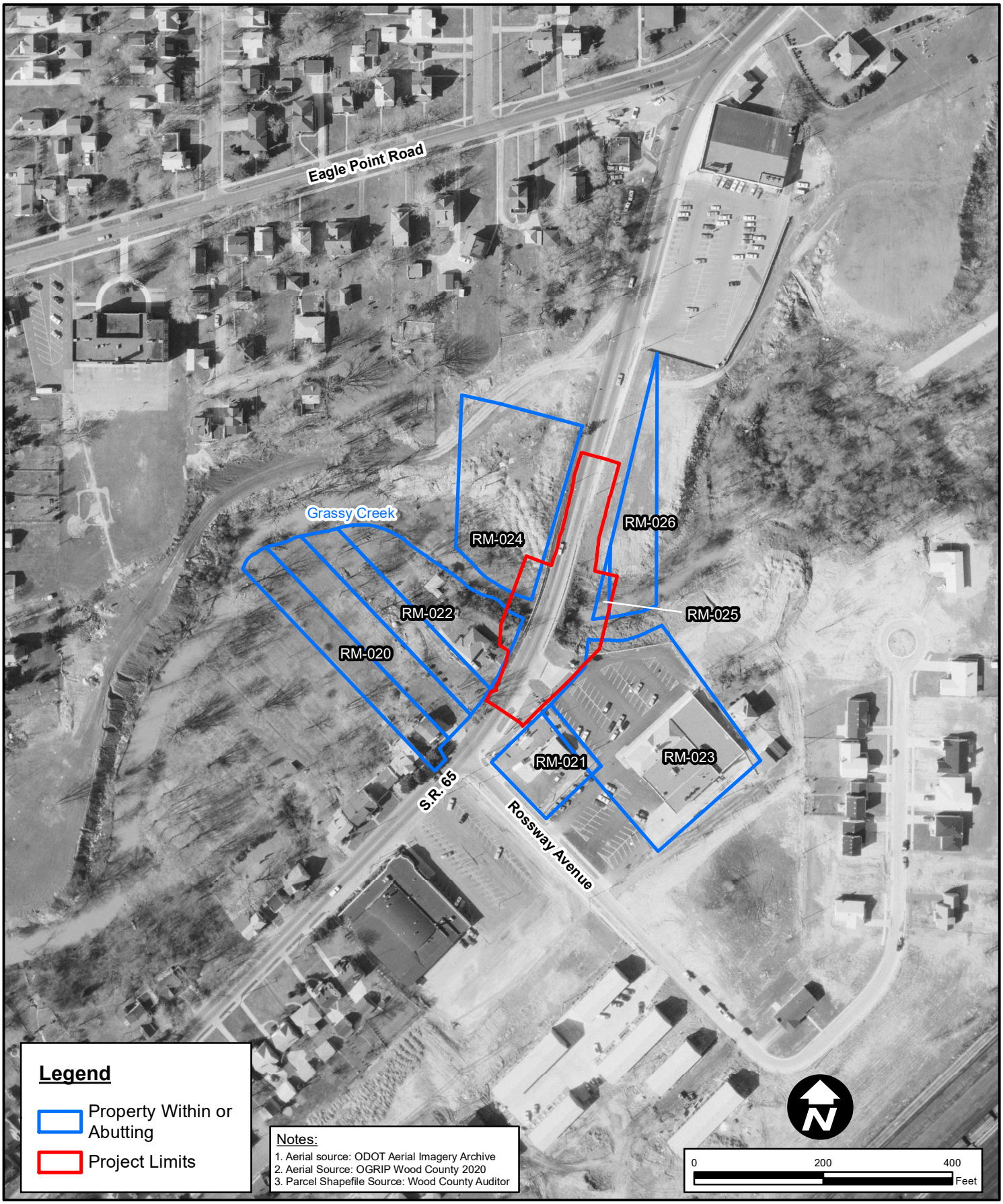
Figure 2 Drafted By: JSB Reviewed By: MES Project: C1092-009-21	**RMR SCREENING MAP** WOO-65-23.39 (PID 107711) Rossford, Wood County, Ohio	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE Date: January 03, 2023



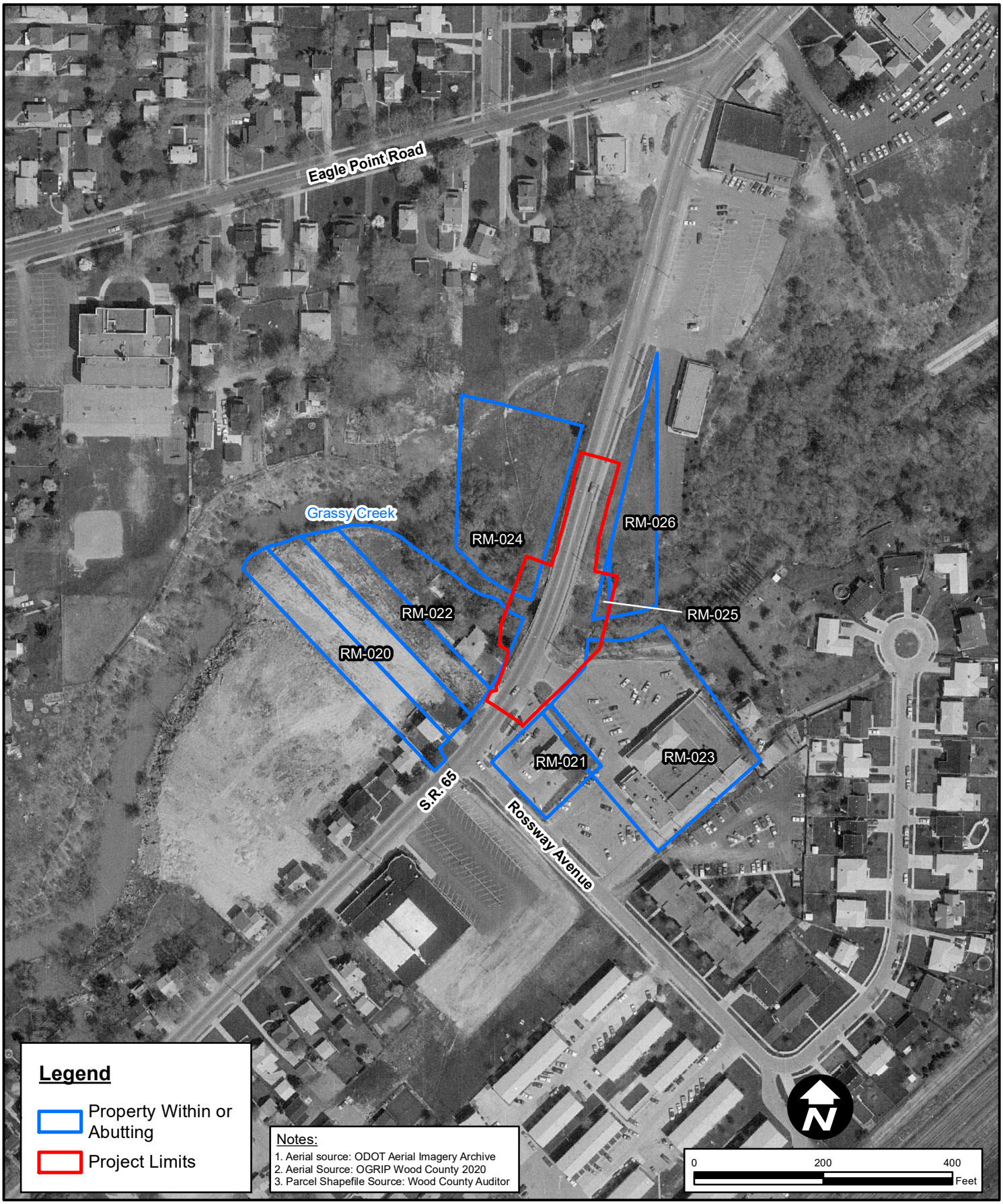
1949	**HISTORIC AERIAL PHOTOGRAPHS**	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE
Drafted By: JSB Reviewed By: MES	WOO-65-23.39 (PID 107711)	
Project: C1092-009-21	Rossford, Wood County, Ohio	Date: January 03, 2023



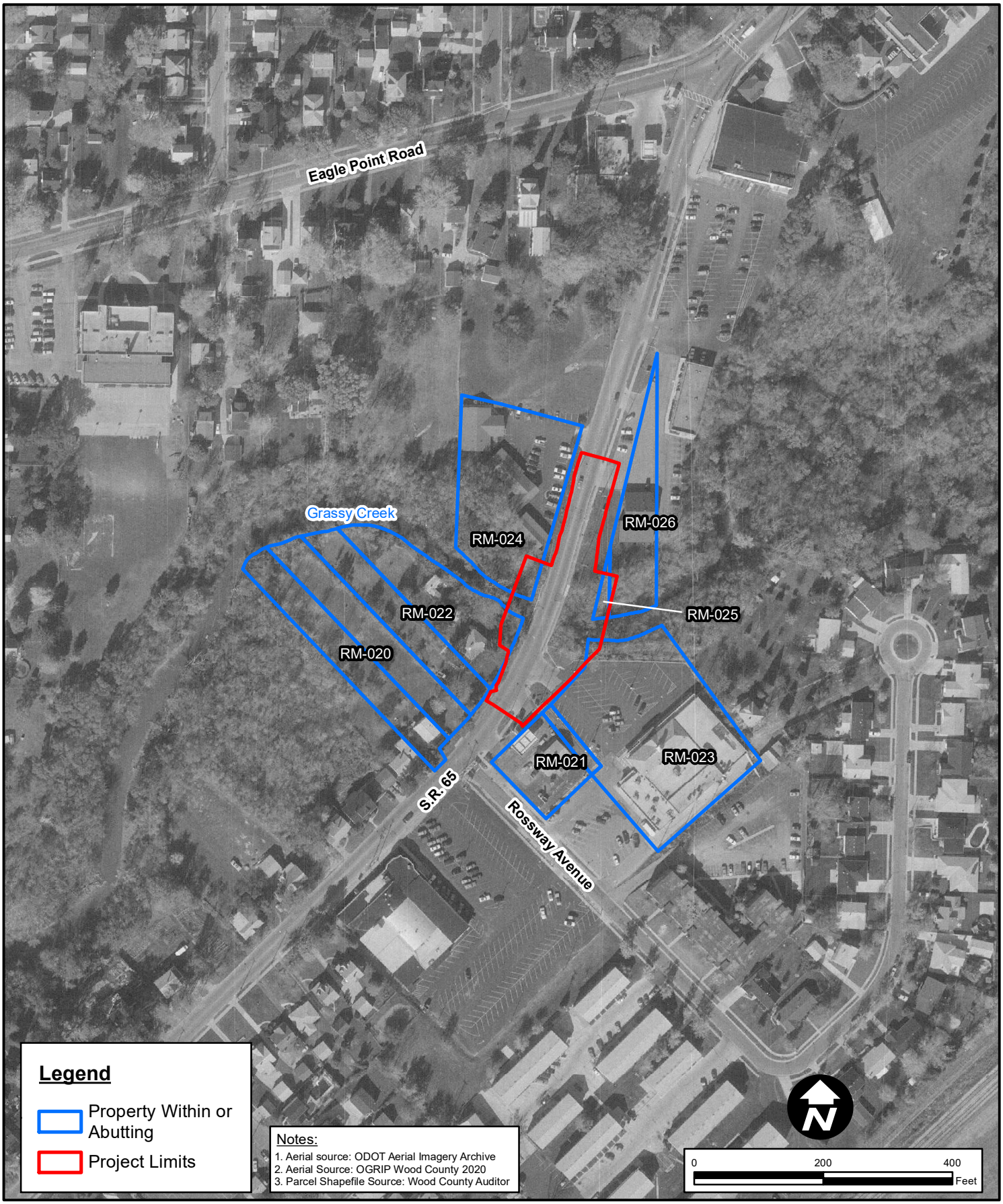
1957 Drafted By: JSB Reviewed By: MES Project: C1092-009-21	**HISTORIC AERIAL PHOTOGRAPHS** WOO-65-23.39 (PID 107711) Rossford, Wood County, Ohio	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE Date: January 03, 2023



1968	HISTORIC AERIAL PHOTOGRAPHS	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE
Drafted By: JSB Reviewed By: MES	WOO-65-23.39 (PID 107711)	
Project: C1092-009-21	Rossford, Wood County, Ohio	Date: January 03, 2023



1980	HISTORIC AERIAL PHOTOGRAPHS	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE
Drafted By: JSB Reviewed By: MES	WOO-65-23.39 (PID 107711)	
Project: C1092-009-21	Rossford, Wood County, Ohio	Date: January 03, 2023



1990	**HISTORIC AERIAL PHOTOGRAPHS**	STONE ENVIRONMENTAL, ENGINEERING & SCIENCE
Drafted By: JSB Reviewed By: MES	WOO-65-23.39 (PID 107711)	
Project: C1092-009-21	Rossford, Wood County, Ohio	Date: January 03, 2023

ORPS Summary Report

Area of Interest (AOI) Information

Area : 0.95 acres

Dec 15 2022 11:30:56 Eastern Standard Time

Summary

Name	Count	Area(acres)	Length(ft)
SEMS - Non-NPL Sites w/buffer (US EPA)	0	0	N/A
SEMS - NPL Sites w/buffer (US EPA)	0	0	N/A
RCRA (US EPA)	0	N/A	N/A
RCRA - TSD Sites w/buffer (US EPA)	0	0	N/A
Federal Engineering Controls (US EPA)	0	N/A	N/A
Federal Institutional Controls (US EPA)	0	N/A	N/A
BUSTR - UST Locations (BUSTR/OGRIP)	6	N/A	N/A
BUSTR - LUST Locations (BUSTR/OGRIP)	9	N/A	N/A
Coal Gas Generators (OEPA-DERR)	0	N/A	N/A
DERR Database (OEPA-DERR)	0	N/A	N/A
Impoundment Sites (OEPA-DERR)	0	N/A	N/A
Landfills - Active Solid Waste Facilities w/buffer (OEPA-DMWM)	0	0	N/A
Landfills - Historic/Abandoned Facilities w/buffer (OEPA-DMWM/DERR)	0	0	N/A
Landfills - Solid Waste Facility Polygons (OEPA-DMWM)	0	0	N/A
Projects With Engineering Controls (OEPA-DERR)	0	N/A	N/A
Projects With Institutional Controls (OEPA-DERR)	0	N/A	N/A
Spills Database (OEPA)	0	N/A	N/A
VAP Sites (OEPA-DERR)	0	N/A	N/A
Potential Areas of Concern (ODOT-OES)	0	0	N/A

BUSTR - UST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	Status	INSPECTION_DATE	FACILITY_CO
1	87000067	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	REM	*No Data*	*No Data*
2	87000067	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	REM	*No Data*	*No Data*
3	87000067	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	REM	*No Data*	*No Data*
4	87000087	SPEEDWAY #3642	939 DIXIE HWY	ROSSFORD	43460	CIU	*No Data*	*No Data*
5	87000087	SPEEDWAY #3642	939 DIXIE HWY	ROSSFORD	43460	CIU	*No Data*	*No Data*
6	87000087	SPEEDWAY #3642	939 DIXIE HWY	ROSSFORD	43460	CIU	*No Data*	*No Data*

#	TANK_ID	CAPACITY	CONTENT	DATE_REMOVED	FACILITY_STATUS	Count
1	T00003	10000	Gasoline	04/20/04	Inactive	1
2	T00001	10000	Gasoline	04/20/04	Inactive	1
3	T00002	6000	Gasoline	04/20/04	Inactive	1
4	T00002	6000	Gasoline	*No Data*	*No Data*	1
5	T00003	8000	Gasoline	*No Data*	*No Data*	1
6	T00001	6000	Gasoline	*No Data*	*No Data*	1

BUSTR - LUST Locations (BUSTR/OGRIP)

#	FACILITY_ID	CURRENT_FACILITY_NAME	ADDRESS	CITY	ZIP	INCIDENT_ID	LTF	STATUS	FACILITY_STATUS	Count
1	*No Data*	SPEEDWAY #3642	939 DIXIE HWY	ROSSFORD	43460	*No Data*	1 SUS/CON from regulated UST	DIS: a release is disproved	Inactive	4
2	87000067	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	N00001	1 SUS/CON from regulated UST	DIS: a release is disproved	Inactive	1
3	87000067	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	N00002	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
4	*No Data*	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	*No Data*	1 SUS/CON from regulated UST	DIS: a release is disproved	Inactive	1
5	*No Data*	7-ELEVEN #19772	904 DIXIE HWY	ROSSFORD	43460	*No Data*	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1
6	*No Data*	SPEEDWAY #3642	939 DIXIE HWY	ROSSFORD	43460	*No Data*	1 SUS/CON from regulated UST	NFA: No Further Action	Inactive	1

RMR REGUALTORY FILE REVIEW FORM

RM Number, Tenant/Address:	RM-21, Speedway. 939 Dixie Hwy, Rossford, OH 43460. Parcel number (T68-300-800414021000 & T68-300-800414020000).
Report Author(s):	Eric P. Slosser
Affiliation:	CAP-STONE & Associates, Inc. dba Stone Environmental Engineering & Science

Certification *(Must be acknowledged by Prequalified Individual)*

☒ I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.

Name:	Eric Slosser	**Signature:**	Eric P. Slosser
Title:	Senior Environmental Scientist	**Date:**	1/9/2023
Email:	ericslosser@stoneenvironmental.com	**Phone:**	614-865-1874

SECTION 1 – BUSTR

BUSTR 1:	Is this a BUSTR site? *	YES
*If answer to BUSTR 1 is NO, skip to Section 2.		
BUSTR 2:	Release investigation in progress on Property?	YES
BUSTR 3:	Does Property have NFA(s)?	YES
BUSTR 4:	Does Property have soils above BUSTR Re-use?	YES
BUSTR 5:	Is Property in BUSTR Enforcement?	YES
BUSTR 6:	Ohio Attorney General's Office involved on Property?	UNKNOWN

Summary: Two 6,000-gallon USTs and one 8,000-gallon UST containing gasoline are currently in use at the site. Six releases have been reported for the site (N000001 through N000006).

N000001 – During July 1997 one 550-gallon UST containing used oil and product pipeline and dispensers associated with a gasoline UST system were removed. Closure soil samples from the used oil UST cavity were below action levels (ALs) and current 2017 BUSTR re-use levels. A sample collected from below the gasoline pipeline was above ALs. Three soil borings were also installed on the site and the soil sample from the boring closest to the right of way was below ALs and 2017 re-use levels (it should be noted that the sample was collected from a depth of 38 feet to 40 feet below ground surface (bgs)). BUSTR issued a No Further Action (NFA) letter on 12/21/2000.

N000002 – In December 1997 free product was detected in the storm sewers and Grassy Creek. The free product was believed to be from the gasoline UST system at the site. Six soil borings were installed at the site and converted into groundwater monitoring wells. Concentrations of chemicals of concern (COCs) in soil and groundwater samples were above ALs. Between 2003 and 2015 a Tier 2 Evaluation, IRA, periodic groundwater monitoring, and Tier 3 Evaluation have been conducted. The conclusions were that concentrations of MTBE at the site were above ALs. Site Specific Targe Levels and modeling indicated that the MTBE concentration is stable or decreasing. Soil samples from the boring closest to the right of way were below 2017 re-use levels. BUSTR issued a NFA letter on 5/22/2015.

N000003 – The incident was disproved as of 6/20/2000. No information on the release were available in the BUSTR file.

N000004 – The incident was disproved as of 3/11/2002. No information on the release were available in the BUSTR file.

N000005 – The incident was disproved as of 3/27/2001. No information on the release were available in the BUSTR file.

N000006 – During 2019 the UST detection system at the site indicated water in the gasoline UST. A broken flange was attributed to the water. The flange was replaced and COCs in the excavated soil around the USTs was above ALs. A site check was performed and three soil borings were installed and converted into groundwater monitoring wells. Concentrations of COCs were above ALs in both soil and groundwater samples. During 2022 BUSTR requested a Tier 1 Investigation report be performed. The Tier 1 Investigation was not included in the file and it is believed the Tier 1 Investigation has not been completed. As of 1/9/2023, the status on BUSTR shows is "Deficient."

Based on the information in the file review it is believed there is a potential that petroleum contaminated soil above the re-use levels may be encountered during excavation for the project.

SECTION 2 – OEPA

OEPA 1:	Is this an OEPA site? *	NO
*If answer to OEPA 1 is NO, skip to Section 3.		
OEPA 2:	Does Property have OEPA records?	Choose response.
OEPA 3:	Is Property undergoing OEPA directed actions?	Choose response.
OEPA 4:	Does Property have soils above VAP Residential levels?	Choose response.
OEPA 5:	Does Property have soils above VAP Commercial/Industrial levels?	Choose response.
OEPA 6:	Does Property have NFA or Covenant Not to Sue?	Choose response.
OEPA 7:	Does Property have deed restrictions?	Choose response.
OEPA 8:	Is OEPA Office of Legal Services involved on Property?	Choose response.
OEPA 9:	Is Ohio Attorney General's office involved on Property?	Choose response.
Summary:		

SECTION 3 – USEPA

USEPA 1:	Is this a USEPA site?	YES
*If answer to USEPA 1 is NO, skip remaining questions.		
USEPA 2:	Does Property have USEPA records?	YES
USEPA 3:	Is Property undergoing USEPA directed actions?	NO
USEPA 4:	Does Property have NFRAP?	NO
USEPA 5:	Does Property have deed restrictions and/or contamination left in place?	NO
USEPA 6:	Is US Department of Justice involved on Property?	NO

Summary: The site has a listing for RCRA VSQG and its handler/facility classification is “unspecified universe.” As of 01/09/2023, no violations have been reported in regards to the RCRA VSQG listing. The NAICS Code is 44711 (Gasoline Stations with Convenience Stores).

UST System Line and Dispenser Closure,
Used Oil UST Closure, and Site Assessment
Bonded Station #3642
939 East River Rd.
Rossford, Ohio
ATC Project No. 02061.0038
BUSTR Incident # 8770081 ~ 01

Prepared for:

Mr. Phil J. Pavlovicz
Emro Marketing Company
207 Walter Street
Springfield, Ohio 45506

October 31, 1997

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Appendix D - Laboratory Analytical Results

Appendix E - ODNR Well Logs

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1.0 PROJECT SUMMARY

Emro Marketing Company (Emro) retained ATC Associates Inc. (ATC) to prepare a UST System Closure Report for Bonded Station #3642 located at 939 East River Rd., Rossford, Ohio. ATC's scope-of-work included monitoring the excavation and removal of one used oil underground storage tank (UST), removal of the gasoline UST system piping and dispensers, closure sampling of the excavations by ATC, and the preparation of the Closure Assessment Report in accordance with Ohio Administrative Code (O.A.C.) 1301:7-9-12. Also, to comply with O.A.C. 1301:7-9-13(I), a hydrogeologic site assessment was conducted to investigate soil and groundwater conditions in the area of a suspected gasoline release at the site. The following report sections are arranged in a format consistent with the UST closure report checklist provided by the Bureau of Underground Storage Tank Regulations (BUSTR) found in Appendix A followed by a discussion of the hydrogeologic site assessment.

Mr. Phil J. Pavlovicz Emro granted authorization to ATC to complete the study and prepare the information contained in this report. Written authorization is required to release any or all parts of this report.

This Closure Assessment Report addresses the removal of one used oil UST and the gasoline UST system piping, and dispensers at the above referenced site. Removal of the UST system was conducted on July 15, 1997 and the lines and dispensers were removed on July 9, 1997. The used oil UST was not replaced but the gasoline lines and dispensers were replaced. The results of the closure are contained within this report. To determine the action levels for the site, the site was scored in accordance with BUSTR's Site Feature Scoring System. The site was determined to be a "Category 3" site.

Emro contracted McNerney & Sons Inc. Construction of Northwood, Ohio who subcontracted R. Loosli Construction (State Certification Number: 10-89-0250) to remove the used oil UST system and gasoline lines and dispensers. An ATC representative was present at the site during soil excavation activities to collect closure samples required under Closure Assessment guidelines (OAC-1301:7-9-12[K]). Analytical results of soil samples collected on July 9 (line and dispenser closure) and 15 (used oil UST closure), 1997, indicate that benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH) are above Category 3 action levels for all samples analyzed from the closure of the product lines but are below action levels for the used oil UST and the gasoline dispensers. Photographic documentation is provided in Appendix B. The location of the site is shown in Figure 1.

During the hydrogeologic site assessment, three soil borings were installed to depths of 40 feet and an associated monitoring well was installed in soil boring SB-1 which was the only boring where water was encountered. Analytical results of soil and groundwater samples collected during the site assessment found no BTEX or TPH levels above the site Category 3 action level.

2.0 SITE DESCRIPTION

Bonded Station #3642 is located in Wood County at 939 East River Rd. in Rossford, Ohio. The site is currently and has formerly been operated as an automotive filling station (Figure 2). The site is located in a residential and light commercial area of Rossford. A parking lot forms the northern property border of the site with a wooded area with a stream located beyond. East River Road extends along the western border with residential property beyond. Ross - Way Avenue boarders the property to the south with a bowling center beyond and a parking lot and shopping center are located east of the site

The station building is located on the central portion of the site, and the gasoline USTs (not removed) are located south of the station building. The used oil UST was located east of the station building with piping extending west to the east wall of the station building (Figure 2). The gasoline and product line were buried at an approximate depth of 2 - 3 feet below grade. And were located east and south of the station building.

3.0 UST SYSTEM OWNER, OPERATOR, AND FACILITY DATA

UST Owner's Name:	Emro Marketing Company 207 Walter Street Springfield, Ohio 45506 Contact: Mr. Phil J. Pavlovicz
Telephone:	(513) 322-1873
County:	Clark
UST Operator:	Same as Above
Telephone:	Same as Above
County:	
UST Facility Location:	Bonded Station #3642
Address:	939 East River Rd. Rossford, Ohio
Telephone:	Not Listed
County:	Wood
UST Facility Owner:	Same As UST Owner
Telephone:	Same As UST Owner
County:	

4.0 UST SYSTEM DATA

UST Systems' Age:	Used oil UST 30 years (1967) Gasoline piping: 30 years (1967)
UST Capacities:	1 - 550 gallon used oil (removed) 2 - 6000 gallon and 1 - 8000 gallon gasoline (still in place)
UST Systems' Construction:	Used oil - Steel Gasoline Tanks - fiberglass Piping: Fiberglass
Date UST last used:	Gasoline - still in use Used oil - July, 1997
Person Who Last Used UST System:	Emro Marketing Company
Substances Stored in USTs:	Gasoline and used oil
UST Systems' use:	Storage of used oil and gasoline for resale
UST Systems' Status:	Gasoline piping and dispensers removed and replaced. Used oil UST permanently removed.
Disposal of UST System:	The used oil UST was rendered useless on site, cut and transported to Omni Source in Fort Wayne, Indiana for recycling. The piping was crushed and placed into a dumpster.

97 NOV 19 A 8:07

5.0 WASTE DISPOSAL DOCUMENTATION

5.1 Method of Disposal and Final Location of Excavated Soils

Soil above BUSTR Category 3 action levels were generated during gasoline and dispenser closure activities at the site and were transported off site to the Evergreen Recycling and disposal facility in Northwood, Ohio for treatment. Excavated soil from the closure of the used oil UST was not above the site action level but the soil was transported off site for treatment due to construction engineering requirements onsite. The PCS soil and treatment notification form and the certification of disposal receipt are included in Appendix C. Stockpile laboratory analytical results for the closure of the UST are presented in Appendix D and Table 1.

5.2 Locations of Soil Samples Taken from Excavated Soil Piles

Two grab stockpile samples were taken from the soils excavated from the UST cavity in accordance with BUSTR's stockpile guidance document dated February 1, 1994. The stockpile sample with the highest field screening value was submitted for analysis.

5.3 Disposal Groundwater

No groundwater was generated during the used oil UST and gasoline line and dispenser closure activities at the site

6.0 SAMPLING DATA

6.1 Soil Sample Collection Procedure

Selection of sampling locations was based on guidelines specified in OAC 1301:7-9-12(K). Soil samples were collected from underneath each end of the UST, approximately every 20 feet along the piping runs, and from beneath each dispenser. Soils in the excavations consisted predominantly of silty gray clay. The samples were collected as split samples. One half of the split sample was placed in a sample jar for possible laboratory analysis. The remaining split was placed in a plastic bag and allowed to volatilize prior to headspace analysis. The sampler wore latex gloves, which were changed between samples to prevent cross contamination.

6.2 Type of Sample Containers and Preservation Techniques

Sample containers were certified clean by the manufacturer, to the recommended EPA wash procedure for Level 1 laboratory glassware. Each soil sample collected from the site was filled to the top of the container to minimize both the loss of volatile contaminants, and the disturbance of the sample. The sample containers intended for possible laboratory analysis were then capped with a Teflon - lined lid, wiped clean, labeled, and placed in a cooler with ice and cooled to approximately 4° Celsius.

6.3 Labeling/Designation of Soil Samples

An effort was made to label samples in a fashion that indicates the general location the sample was collected. For example, L-1 would signify the sample was the first piping (line) run sample. The following is an example of labeling procedure:

L = Line
UST = Tank excavation
D = Dispenser
STK = Stockpile

6.4 Type of Sampling Equipment Used

Soil samples were collected from the UST cavity and piping using the backhoe and a shovel. Samples were collected by hand, and care was taken not to obtain soil samples that were in contact with the backhoe or shovel.

6.5 Decontamination Procedures of Sampling Equipment

A new pair of latex gloves was used for the collection of each soil sample.

6.6 Field Screening Methodology

Headspace analysis was performed for each sample by placing the soil into a resealable plastic bag and placing them in the sunlight for at least ten minutes to allow any volatiles present to volatilize. To conduct the headspace analysis, the tip of the photoionization detector was inserted into the bag approximately thirty seconds and peak readings were recorded. Samples with the highest reported PID readings were selected for laboratory analysis. Sample locations are shown in Figure 3. PID readings and sample depths are shown in Table 1.

6.7 Type of Field Screening Instrument Used

Samples were field screened using a 10.0 eV photo-ionization detector (PID) which measures total photoionizable vapors (TPVs) in parts per million (ppm). The PID was calibrated prior to use with an isobutylene standard.

6.8 Chain-of-Custody Documentation for Soil Samples

Chain-of-Custody documentation can be found in Appendix D.

6.9 Sample Collector's Name and Affiliation

Douglas Flinn (line closure) and Bill Glaze (used oil UST closure) of ATC (Columbus Office) collected all closure soil samples on July 9 (line and dispenser closure)and 15 (used oil UST closure), 1997.

7.0 LABORATORY DATA

7.1 Laboratory Sample Analysis Data Sheets

A summary of the analytical results for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH) are provided in Table 1 and Figure 3. The complete set of laboratory sample analysis data sheets, and the chain-of-custody, for soil samples are presented in Appendix D.

7.2 Date Soil Samples Were Collected

Sampling activities were initiated on July 9 (line and dispenser closure)and 15 (used oil UST closure), 1997. The date is documented on the chain-of-custody forms in Appendix D.

7.3 Date Soil Samples Were Received and Analyzed by the Laboratory

Samples were received and analyzed by USX Engineers & Consultants Inc. (line and dispenser closure, BTEX 8020 and TPH 8015) and ATEL (used oil UST BTEX 8020 and TPH 8015) on July 15, 1997 and at ATC Associates Laboratory (used oil UST volatile organics 8240 and TPH 418.1) on July 22, 1997. Dates of laboratory analysis are indicated on the laboratory report in Appendix D.

7.4 Name, Address, and Phone Number of the Analytical Laboratory

Laboratory Name:	USX (line closure)
Address:	4000 Tech Center Drive Monroeville, Pennsylvania 15146
Phone:	(412) 825-2400
Laboratory Name:	ATEL(used oil UST)
Address:	6878 St. Rt. 100 Melmore, Ohio 44845
Phone:	(419) 397-2229
Laboratory Name:	ATC Associates Inc. (used oil UST)
Address:	5150 65th St. Indianapolis, Indiana 46220
Phone:	(317) 849-4990

8.0 MISCELLANEOUS DATA

8.1 Hydrogeologic Setting

The site is located above an aquifer which is a potential source of municipal water supply. developed from the Silurian age limestone. Wells developed in the underlying carbonate bedrock can yield 100-500 or more gallons per minute (gpm) at depths of 100 to 400 feet (See Figure 4, Groundwater Resources Map of Wood County). Lower yielding residential water supplies can be generated from depths less than 100 feet. Ohio Department of Natural Resources (ODNR) well logs and drilling reports indicate that there are no reported wells/test borings within a one-quarter mile radius of the subject (Appendix E).

8.2 Local Drinking Water Supplies

The public water supply for the site and the area surrounding the site is obtained from the City of Toledo. Potable water is obtained from Lake Erie with intakes over 2 miles off shore.

8.3 BUSTR Site Feature Scoring

Ohio Administrative Code (OAC) 1301:7-9-13 (E) outlines a formula for the determination of site-specific action levels for sites from which releases from regulated USTs have been discovered. Action levels are the concentrations of the monitored petroleum hydrocarbon constituents at which corrective action must be taken. The action level for the site has been determined to be "Category 3" based upon the above-referenced rule. Site evaluation data and site feature scoring documentation are provided in Appendix F.

8.4 Fire Department with Jurisdiction Over the Site

Rossford Fire Department
133 Osborn St.
Rossford, Ohio 43460
(419 666-3230

UST Inspector present during excavation activities:

Mr. Kenneth Lets
133 Osborn St.
Rossford, Ohio 43460
UST Inspector Certification #97-0005

8.5 30-Day Closure Notification and Closure Permit

Thirty day notification and closure permit is included in Appendix G.

9.0 SITE ASSESSMENT ACTIVITIES

ATC Associates, Inc. (ATC) performed a hydrogeologic site assessment in July, 1997. The study was performed in general accordance with Ohio Administrative Code (OAC) 1301:7-9-13(I) to investigate the vertical and lateral extent of petroleum-impacted environmental media associated with an apparent release from the gasoline underground storage tank (UST) system located on-site. Accordingly, the scope of the investigation consisted of the installation of test borings and an associated monitoring well, soil and groundwater sampling and analysis. The Ohio State Fire Marshal's Bureau of Underground Storage Tank Regulations (BUSTR) site assessment checklist is included in Appendix A.

10.0 TEST BORING/MONITORING WELL INSTALLATIONS

During July 1997, three test borings and one associated monitoring wells were installed and soil and groundwater samples were collected and analyzed to gather geologic, hydrogeologic and chemical data on unconsolidated subsurface materials at the site. A traditional hollow stem auger (HSA) drill rig was utilized to install these borings. Boring and well locations were selected to provide data from areas where contamination would most likely be present or would have migrated. Boring and monitoring well locations are illustrated in Figure 2.

10.1 Test Borings Installation And Sampling

Test borings B-1 through B-3 were installed with a HSA drill rig. The borings were advanced and continuously sampled to a depth of 40 feet utilizing a split spoon sampler. The split spoon sampler was washed in soapy water between samples and clean hollow stem augers were used for each boring location to prevent cross contamination. Soil cuttings generated during boring installation were placed with the waste piles generated during the excavation of the product lines and dispensers and disposed off site in conjunction with UST closure operations. Logs for the test borings are included in Appendix H.

10.2 Monitoring Well Installation

Monitoring well MW-1 was installed at an approximate depth of 34 feet in soil boring SB-1. Water was not encountered in borings B-2 and B-3. Ten foot lengths of factory-slotted well screen and flush-joint riser were used for well construction. The casing and screen for the well were assembled and lowered into the boring. Washed quartz filter sand was used to pack annular space in the wells to approximately 2.0 feet above the top of the screened interval. Sand pack placement was checked with a weighted tape. A 2.0 foot thick bentonite seal was placed above the sand pack and the remaining annular space was filled with a bentonite slurry up to two feet below ground level and the remaining space was filled with concrete. After

installation, the monitoring well was properly developed. The monitoring well construction diagram is included in Appendix H.

11.0 SAMPLING AND ANALYSIS

11.1 Soil

Native soils encountered in the borings consisted predominantly of silty clay deposits. Bedrock was not encountered in any of the test borings. Soil samples, collected from all borings were field screened with a 10.0 eV Thermo Environmental Instruments OVM model 580B PID. The PID was calibrated for use against benzene with an isobutylene standard. Maximum headspace readings were recorded for each sample (see boring logs, Appendix H). Maximum headspace PID measurements for the soil samples ranged from background (0.0 parts per million (ppm) in several soil samples) to 23.4 ppm (B-2)

One soil sample from borings B-1 and B-3 and two soil samples from B-2 were submitted to USX Engineers & Consultants Inc. In Monroeville, PA for analysis. The sample with the highest PID reading and, in boring B-2 one additional sample collected from a similar depth of an adjacent storm sewer were submitted for analysis. All soil samples were submitted to the laboratory utilizing chain-of-custody controls. Samples were analyzed for TPH by EPA Method 8015, and BTEX by EPA Method 8020. A summary of laboratory analytical results is included in Table 2 and Figure 5. The complete laboratory report is included in Appendix D.

Laboratory analysis detected TPH in all shallow samples tested with a maximum concentration of <0.028 ppm total BTEX (0.012 ppm benzene) detected in B-3. No BTEX constituents were found above site Category 3 action levels.

11.2 Groundwater

Groundwater was collected from the newly installed monitoring well MW-1 on July 15, 1997. No evidence of free phased petroleum product was observed during the sampling event.

Analytical results of the groundwater sample show that no BTEX constituents were detected above the laboratory detection limit of <0.002 ppm. Groundwater analytical results are presented in Table 3 and by location in Figure 6. The complete laboratory reports are included in Appendix D.

11.3 Hydrogeologic Data

Accurate gauging of the static water level was performed on July 15, 1997 using an electronic water level indicator which measures the depth to groundwater to the nearest one-hundredth of a foot. The depth to water measurements in the monitoring well was 11.28 feet. Since no water was encountered in borings B-2 and B-3 and only one well exists on site, a piezometric map could not be constructed.

12.0 SITE ASSESSMENT FINDINGS

Findings from ATC site assessment activities completed to date are presented in an outline form below.

- Hydrogeologic conditions in areas around the site are characterized by deposits of silty clays. Groundwater beneath the site is not utilized as a source of potable water.

- Laboratory analysis of soil samples did not detect TPH or BTEX in excess of BUSTR's Category 3 action levels in any of the soil samples submitted for analysis.

- BTEX concentrations in the groundwater sample collected from monitoring well MW-1 was below the laboratory detection limit and below the site Category 3 action level.

13.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science, geology and engineering. This warranty is in lieu of all warranties either expressed or implied. ATC is not responsible for information lacking as a result of non-disclosure by the recipient of this report, or independent conclusions, opinions, or recommendations made by others based on information in this report.

The results, findings, conclusions and recommendations expressed in this report are based only on conditions which were observed during the site inspection of July, 1997. ATC and this report make no representation or assumptions as to past conditions or future occurrences.

TABLES

TABLE 1
Soil Analytical Results
UST Closure - Piping & Dispenser Closure
Bonded Station #3647
939 East River Road
Rossford, Ohio

Boring Location	Depth Sampled (ft)	PID ppm	TPH ppm	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylene ppm	Total BTEX
L-1	4	378	1000	1.700	19.000	11.000	76.000	107.700
L-2	2	324	NA	NA	NA	NA	NA	
L-3	2	60	NA	NA	NA	NA	NA	
D-1	4	535	NA	NA	NA	NA	NA	
D-2	4	510	NA	NA	NA	NA	NA	
D-3	2	616	380	0.1500	2.300	3.100	26.000	31.550
UST001*	6		<10	< 0.005	< 0.005	< 0.005	< 0.010	< 0.025
UST001**	6		<50	< 0.050	< 0.050	< 0.050	< 0.050	< 0.200
UST002	6		NA	NA	NA	NA	NA	
STK001*			<10	< 0.005	< 0.005	< 0.005	< 0.010	< 0.025
BUSTR Action Levels								
Category 3			450	0.335	9	14	67	---

* - Sample analyzed for TPH by EPA Method 418.1 and Volatiles by Method SW 8240 (all other constituents below laboratory detectiopn limit)

** - Sample analyzed for TPH by EPA Method 8015 and BTEX by Method 8020

TABLE 2
Soil Analytical Results
Site Assessment
Bonded Station #3647
939 East River Road
Rossford, Ohio

Boring Location	Depth Sampled (ft)	PID ppm	TPH ppm	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylene ppm	Total BTEX
B-1	26 - 28	2.9	<5	0.009	< 0.002	< 0.002	< 0.004	< 0.017
B-2	10 - 12	23.4	<5	< 0.002	< 0.002	< 0.002	0.014	< 0.020
B-2	16 - 18	2.5	<5	< 0.002	< 0.002	< 0.002	< 0.004	< 0.010
B-3	38 - 40	2.1	<5	0.012	0.010	< 0.002	< 0.004	< 0.028
BUSTR Action Levels								
Category 3			450	0.335	9	14	67	---

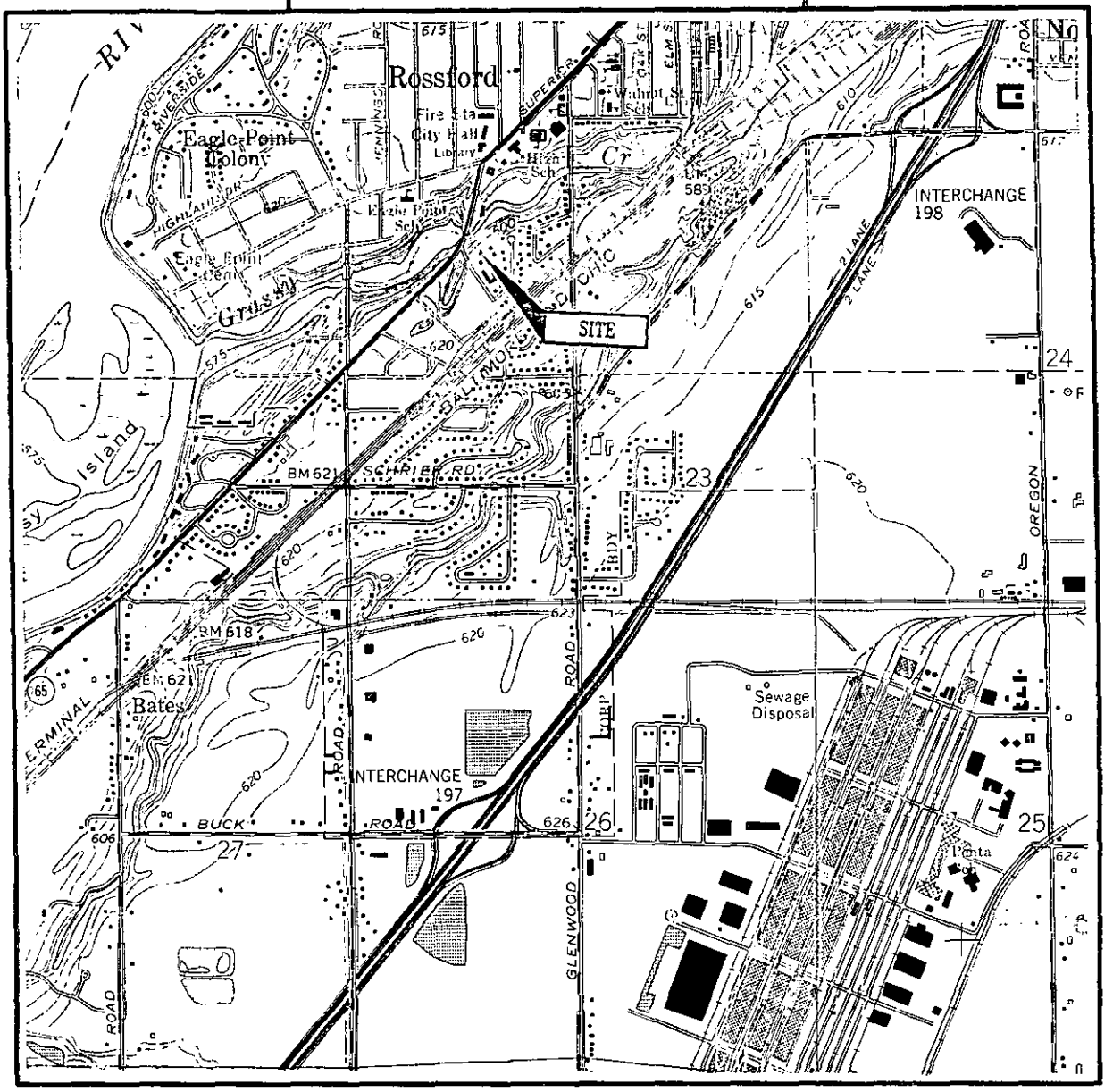
TABLE 3
Groundwater Analytical Results
Site Assessment
Bonded Station #3647
939 East River Road
Rossford, Ohio

Monitoring Well ID	Date Sampled		Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylene ppm	Total BTEX
MW -1	7/15/97		< 0.0020	< 0.0020	< 0.0020	< 0.0040	< 0.0100
BUSTR Action Levels							
Category 3			0.005	1.0	0.7	10.0	---

FIGURES

ROSSFORD, OHIO QUADRANGLE

OHIO – WOOD COUNTY
7.5 MINUTE SERIES (Topographic)



SCALE: 1" = 2000'

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

N

ROSSFORD, OHIO

1965

PHOTOREVISED 1980

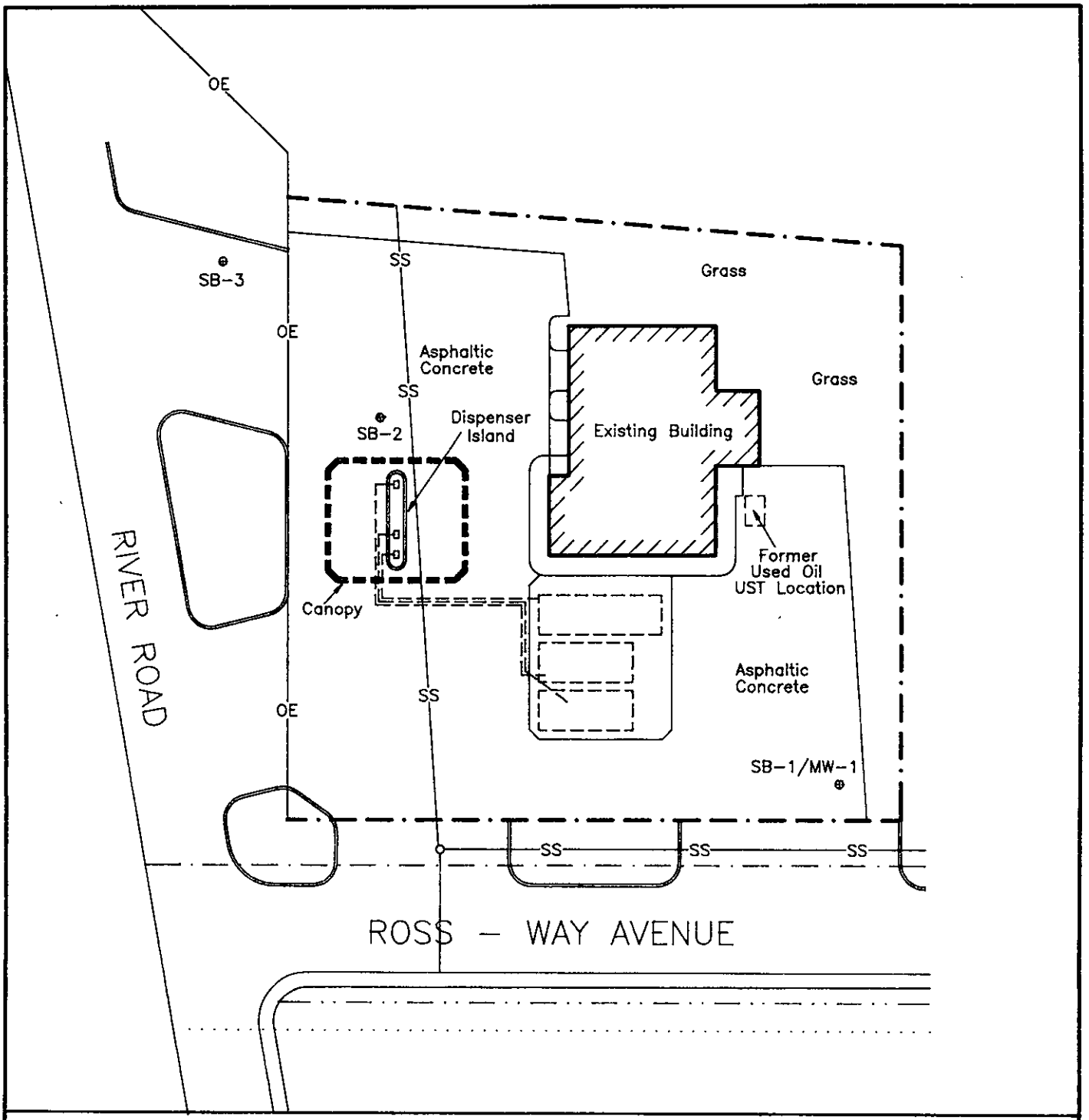
SITE LOCATION MAP

USED OIL UST, GASOLINE LINE
DISPENSER CLOSURE AND SITE ASSESSMENT
Bonded Station #3642
939 East River Road
Rossford, Ohio

PROJECT NO.: 02061.0038

FIGURE 1

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL, AND MATERIALS PROFESSIONALS



N

LEGEND

Property Line		Soil Boring	⊕
Water Line		Sanitary Sewer Line	. . . . .
Storm Sewer Line	——SS——	Gas Line	—·—·—·—
Overhead Electric	——OE——	UST System	– – – – –

SITE MAP

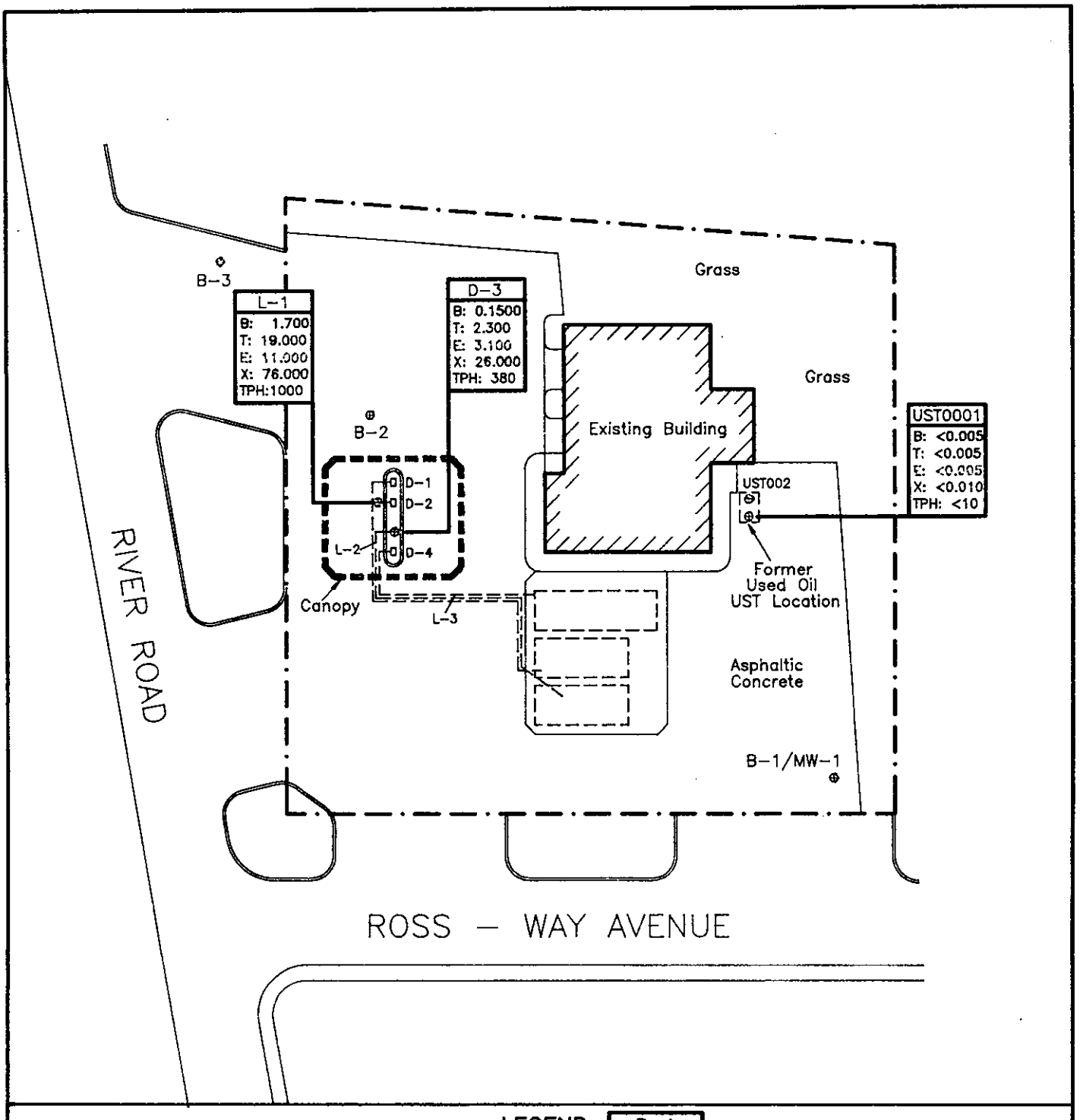
USED OIL UST, GASOLINE LINE
DISPENSER CLOSURE AND SITE ASSESSMENT
Bonded Station #3642
939 East River Road
Rossford, Ohio

PROJECT NO.:	DATE:	DRAWN BY:	REVIEWED BY:
02061.0038	10/3/97	RRS	DLF

SCALE: 1" = 30'

FIGURE 2

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL, AND MATERIALS PROFESSIONALS



N

LEGEND

Property Line	
Soil Boring	
UST System	

B-1	
B: <0.001	Benzene Results In PPM (0.001 D.L.)
T: <0.001	Toluene Results In PPM (0.001 D.L.)
E: <0.001	Ethylbenzene Results In PPM (0.001 D.L.)
X: <0.001	Xylene Results In PPM (0.002 D.L.)
TPH: <1.0	TPH Results In PPM (1.0 D.L.)

USED OIL UST, GASOLINE LINE AND DISPENSER SOIL ANALYTICAL RESULTS

USED OIL UST, GASOLINE LINE
DISPENSER CLOSURE AND SITE ASSESSMENT
Bonded Station #3642
939 East River Road
Rossford, Ohio

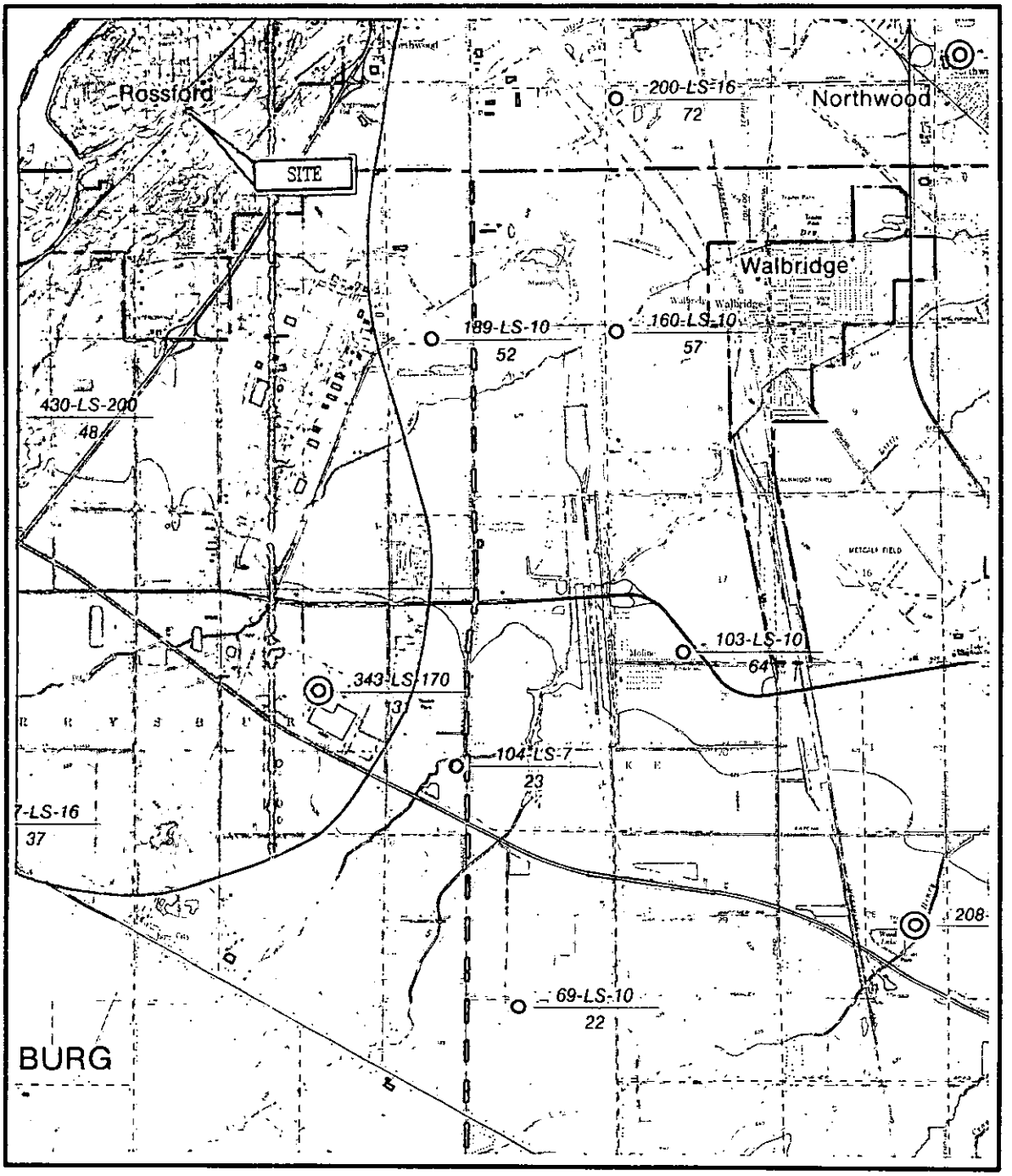
PROJECT NO.:	DATE:	DRAWN BY:	REVIEWED BY:
02061.0038	10/3/97	RRS	DLF

SCALE: 1" = 30'

FIGURE 3

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL, AND MATERIALS PROFESSIONALS

with depth throughout



GROUNDWATER RESOURCES MAP OF WOOD COUNTY

Used Oil Ust Gasoline Line
Dispenser Closure And Site Assessment
Bonded Station # 3642
939 East River Road
Rossford, Ohio

PROJECT NO.: 02061.0038	
SCALE: 1" = 1 MILE	
FIGURE 4a	ATC

Well Yields

AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED

Principal aquifer in this county is the carbonate bedrock. Industrial and municipal supplies may be developed at depths of 100 to 400 feet. Domestic supplies are usually obtained at depths of less than 100 feet. High hydrogen sulfide concentrations may be encountered in some localities at shallow depths. Hydrogen sulfide and hardness levels tend to increase with depth throughout the county.

AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED

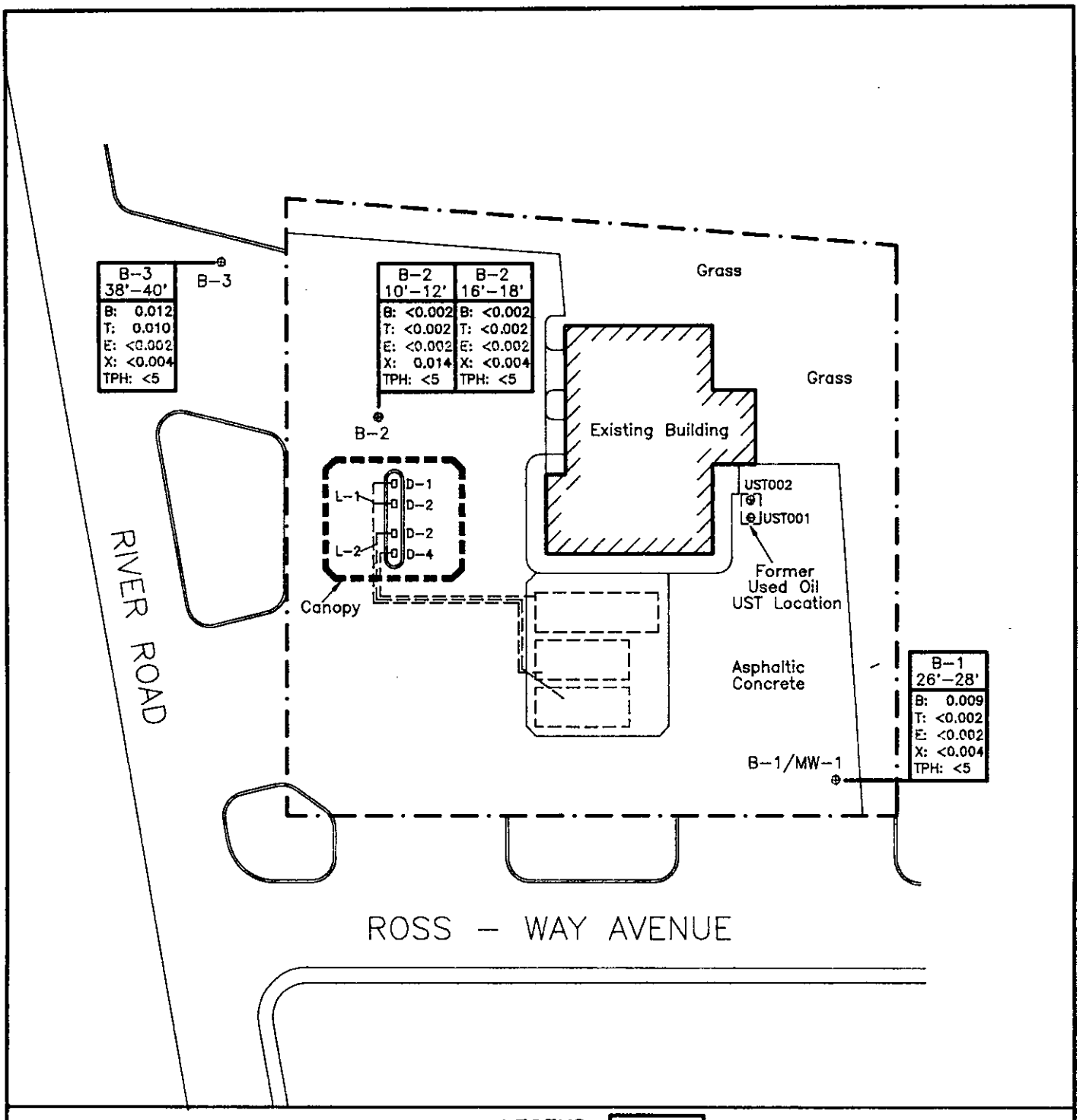
Larger yields, 50 to 100 gallons per minute, may require drilling to depths in excess of 400 feet in the carbonate bedrock aquifer. Domestic wells are usually less than 150 feet in depth. High hydrogen sulfide concentrations may be encountered in some locations at shallow depths. Hydrogen sulfide and hardness levels tend to increase with depth throughout the county.

LEGEND

GROUNDWATER RESOURCES MAP
WOOD COUNTY

PROJECT NO.:	02061.0038
SCALE:	N/A
FIGURE	4b

ATC



N

LEGEND

Property Line	
Soil Boring	
UST System	

B-1	
B: <0.001	Benzene Results In PPM (0.001 D.L.)
T: <0.001	Toluene Results In PPM (0.001 D.L.)
E: <0.001	Ethylbenzene Results In PPM (0.001 D.L.)
X: <0.001	Xylene Results In PPM (0.002 D.L.)
TPH: <1.0	TPH Results In PPM (1.0 D.L.)

SOIL BORING SOIL ANALYTICAL RESULTS

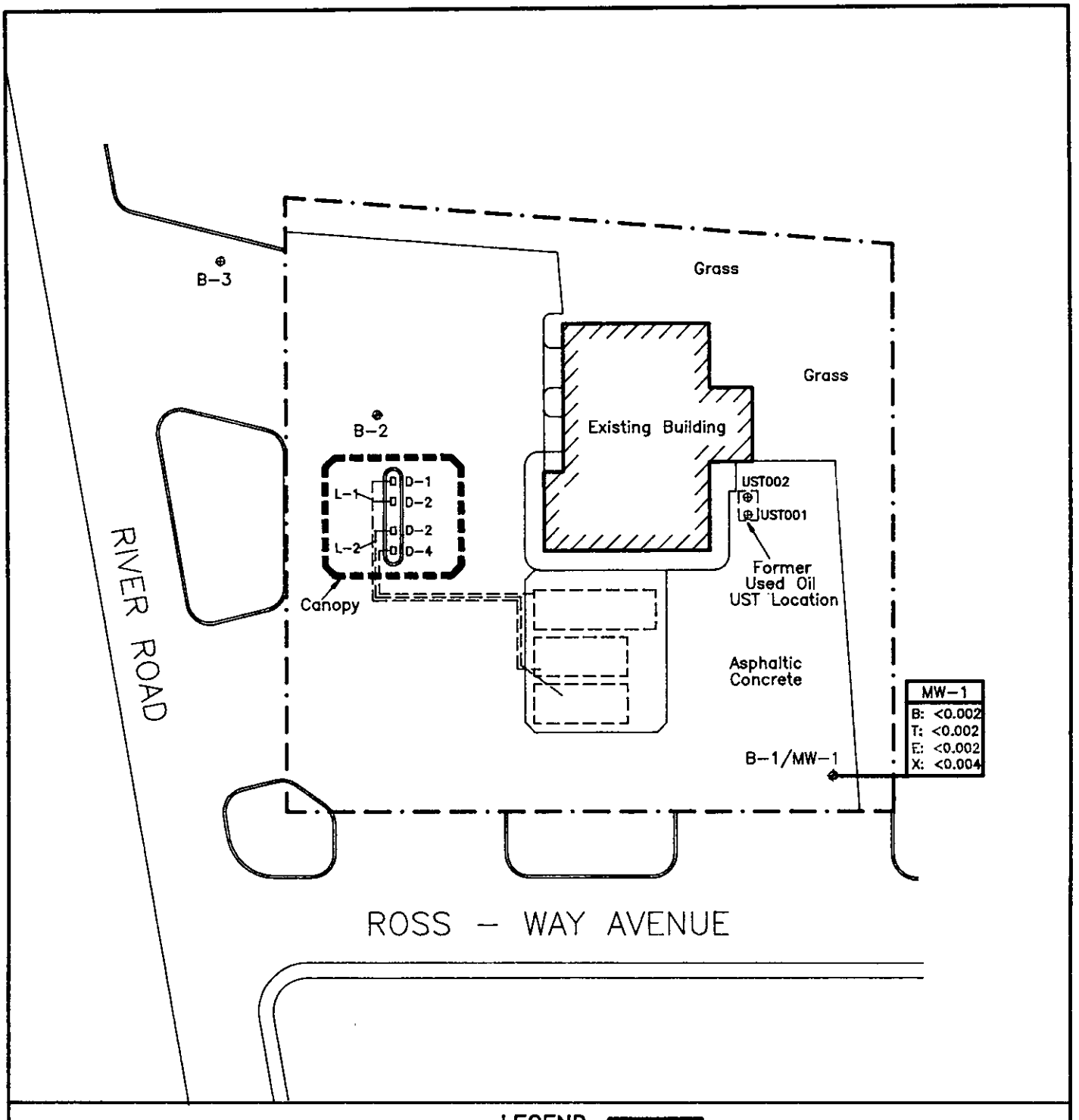
USED OIL UST, GASOLINE LINE
DISPENSER CLOSURE AND SITE ASSESSMENT
Bonded Station #3642
939 East River Road
Rossford, Ohio

PROJECT NO.:	DATE:	DRAWN BY:	REVIEWED BY:
02061.0038	10/3/97	RRS	DLF

SCALE: 1" = 30'

FIGURE 5

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL, AND MATERIALS PROFESSIONALS



N

LEGEND

Property Line	
Soil Boring	
Monitoring Well	

B-1	
B: <0.001	Benzene Results In PPM (0.001 D.L.)
T: <0.001	Toluene Results In PPM (0.001 D.L.)
E: <0.001	Ethylbenzene Results In PPM (0.001 D.L.)
X: <0.001	Xylene Results In PPM (0.002 D.L.)

GROUNDWATER ANALYTICAL RESULTS

USED OIL UST, GASOLINE LINE
DISPENSER CLOSURE AND SITE ASSESSMENT
Bonded Station #3642
939 East River Road
Rossford, Ohio

PROJECT NO.:	DATE:	DRAWN BY:	REVIEWED BY:
02061.0038	10/3/97	RRS	DLF

SCALE: 1" = 30'

FIGURE 6

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL, AND MATERIALS PROFESSIONALS

APPENDIX A

DIVISION OF STATE FIRE MARSHAL-BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS

CLOSURE REPORT CHECKLIST FORM

Ownership of Tanks	Location of Tanks
Emro Marketing Company 207 Walter Street Springfield, Ohio 45506 (513) 322-1873	Bonded Station #3642 939 East River Rd. Rossford (Wood County), Ohio

I. FILING INSTRUCTIONS

A. In the column on the left side of the form, place either the page number or appendix designation where each item on the checklist can be found in the Closure Report or "N/A" (Not Applicable) for items that do not apply to your Closure Report. If "N/A" is indicated, you must also indicate the page number accordingly.

B. UST owner must sign where indicated on Page 2 of this form and attach it to the Closure Report. Deficient Closure Reports submitted to our office will be returned to the UST owner for completion. Send the Closure Report Checklist form and the Closure Report to the address as indicated on the enclosed cover letter.

NOTE: UST OWNER/OPERATORS SHALL SUBMIT ONE COPY OF THE WRITTEN CLOSURE REPORT WHICH SHALL BE RECEIVED BY THE STATE FIRE MARSHAL WITHIN 45 DAYS OF RECEIPT BY THE UST OWNER/OPERATOR OF SOIL AND/OR GROUNDWATER LABORATORY ANALYSIS BUT NOT LATER THAN 90 DAYS FROM THE DATE OF COLLECTING SOIL AND/OR GROUNDWATER SAMPLES.

II. UST SYSTEM OWNER, OPERATOR, AND FACILITY DATA

3 UST Owner (name, address, zip code, county, phone no.)
3 UST Operator (name, address, zip code, county, phone no.)
3 UST Facility Location (name, address, zip code, county, phone no.)
3 UST Facility Owner (name, address, zip code, county, phone no.)

III. UST SYSTEM DATA

4 UST System(s) Age (years)
4 UST(s) Capacity (gallons)
4 UST System(s) Construction (i.e., steel, fiberglass, etc.)
4 Date UST System(s) Last Used
4 Person(s) Who Last Used UST System
4 Substance(s) Stored in UST(s) both past and present (i.e., gasoline, diesel fuel, used oil, etc.)
4 UST System Use (i.e., retail sales, residential, farm, business, etc.)
4 UST(s) System Status (Permanently Removed or Abandoned-In-Place)
4 Disposal of UST(s) System

IV. WASTE DISPOSAL DATA

5 Method of Disposal and Final Location of Excavated Soil(s) and Backfill Materials
5 Amount of Soils and Backfill Excavated (cubic yards)
5 Disposal and Final Location of any Liquids from UST System or UST System Excavation
5 Locations of Soil Samples taken from Excavated Soil Waste Pile(s)
App D Copies of Laboratory Data Sheets of Soil Samples taken from Excavated Soil(s) and Backfill Materials

V. SAMPLING DATA

(Groundwater sampling data only required if groundwater encountered during closure activities)

6	Soil and/or Groundwater Sample Collection Procedures
6	Type of Sample Containers and Sample Preservation Techniques Used for Soil and/or Groundwater
6	Labeling Number or Designation of Soil and/or Groundwater Sample(s) Used
6	Type of Sampling Equipment Used (i.e., split spoon, shelby tube, etc.)
7	Decontamination Procedures of Sampling Equipment Used
7	Field Screening Methodology Used for each Soil and/or Groundwater Samples Obtained
7	Type of Field Screening Instrument Used
Tab 1	Listing of Field Screening Readings for each Soil and/or Groundwater Sample Obtained
7	Calibration Methodology Used for Field Screening Instrument
Tab 1	Location and Depths of all Soil and/or Groundwater Samples Obtained
App D	Copy of Chain of Custody Documentation for Soil and/or Groundwater Samples Submitted to Lab
7	Sample Collector(s) Name and Company Affiliation

VI. LABORATORY DATA

(Groundwater laboratory data only required if groundwater encountered during closure activities)

App D	Copies of Laboratory Sample Analysis Data Sheets for Soil and/or Groundwater Samples
8	Date Soil and/or Groundwater Samples Collected
8	Date Soil and/or Groundwater Samples Received by Laboratory
8	Date Soil and/or Groundwater Samples Analyzed by Laboratory and Type of Matrix Analyzed
8	Name, Address, and Phone No. of Laboratory and name of Sample Analyst
App D	Analytical Test Methods Used for Soil and/or Groundwater Samples
App D	Detection/Quantitation Limits Used for Laboratory Test Methods
App D	Laboratory Instrument Calibration Used

VII. MISCELLANEOUS DATA

Fig 2	Site Map Accurately Depicting Dimensions of Facility Property Boundaries, Above Ground Structures, Adjacent Street Locations, and UST Systems (no. of tanks and product lines)
App E	Mapped Locations of Known Private Wells, Public Water Wells, or Monitoring Wells on Facility
Fig 2	Mapped Locations of any Utilities Exposed During UST System Excavation
6	Description of Native Soils Encountered During UST System Excavation (i.e., sands, gravel, clays, etc.)
Fig 3	Mapped Depths and Locations of all Soil and/or Groundwater Samples taken from Excavation
App A	Visual Site Evaluation
Fig 2	Mapped Locations of UST(s) Recently or Historically removed, Abandoned-In-Place, etc.
N/A	Mapped Locations of Other UST Still in Service
Fig 2	Mapped length of UST(s) and Product Line(s)
Fig 3	Mapped Excavation Limits
10	Certified Fire Safety Inspector name and Certificate Number
9	Local Fire Department (name, address, zip code, county, phone) with Jurisdiction Over UST Site
App G	Copy of 30 Day Closure Notification and Closure Permit

UST(s) Owner Representative: Mr. Phil J. Pavlovicz Signature: Phil J. Pavlovicz

Date: 11/14/97

DIVISION USE ONLY

Prepared By: _____ Date: _____

Site Assessment Checklist and Recommended Table of Contents

(Received by the SFM within 180 days of reporting the release)

Date:	October 24, 1997	Facility:	Bonded Station #1056
Owner/Operator*:	Emro Marketing Company	Address:	939 East River Road
Address:	207 Walter Street		Rossford, Ohio
	Springfield, Ohio	County:	Wood
Phone Number:	(937) 322-1873	Incident#:	8770081

Each Site Assessment report must include the following:

Check	Page #	
		A. A brief summary of the activities to date, which includes
X	11	1. The nature of the release.
	NA	2. Immediate corrective actions taken.
	NA	3. Free-product removal activities.
		4. The results of soil/groundwater results from a site check, closure assessment or other assessment (table of sample results and site map depicting location and depth).
		B. A summary of the assessment activities, which includes
X	11	1. An explanation of how soil boring locations were chosen.
X	Fig 5 & 6	2. A determination of the vertical and horizontal extent of the release in soil and groundwater.
X	11 App H	3. A description of soil core drilling and monitor well installation (drilling logs and monitor well diagrams included as an appendix).
	NA	4. Determination of the direction and gradient of groundwater flow if groundwater is encountered.
	NA	5. Data collection for monitoring wells, such as depth to product, product thickness, depth of water from top of casing, elevation to top of casing and location of arbitrary benchmark.
X	Fig 2	C. A map that accurately depicts the locations of the UST system, buildings or other structures within 1,000 feet of the suspect UST system, on-site storm sewers, water lines, underground telephone lines, natural gas lines and other structures and utilities which may act as a route of migration for contaminants. In addition, the map must accurately depict the locations of the soil core boring, monitoring well locations and surface water samples.
		D. Results of sampling in table format with actual analytical results for
X	Tab 2 & Fig 3	1. Results of soil samples.
	NA	2. Results of surface water sampling from ditches, storm sewers, streams, lakes or other surface waters affected by the release.
X	Tab 3 & Fig 6	3. Results of groundwater samples from monitoring wells.
	NA	4. Results of water samples from private drinking-water wells.
X	App D,E,H	E. Any other pertinent information such as access agreements, boring logs and lab data sheets.

Preparer Name: Douglas L. Flinn Preparer Signature: Douglas L. Flinn Date: October 24, 1997

Owner/Operator* Phil Pavlovicz Owner/Operator*: Phil Pavlovicz Date: 11/14/97

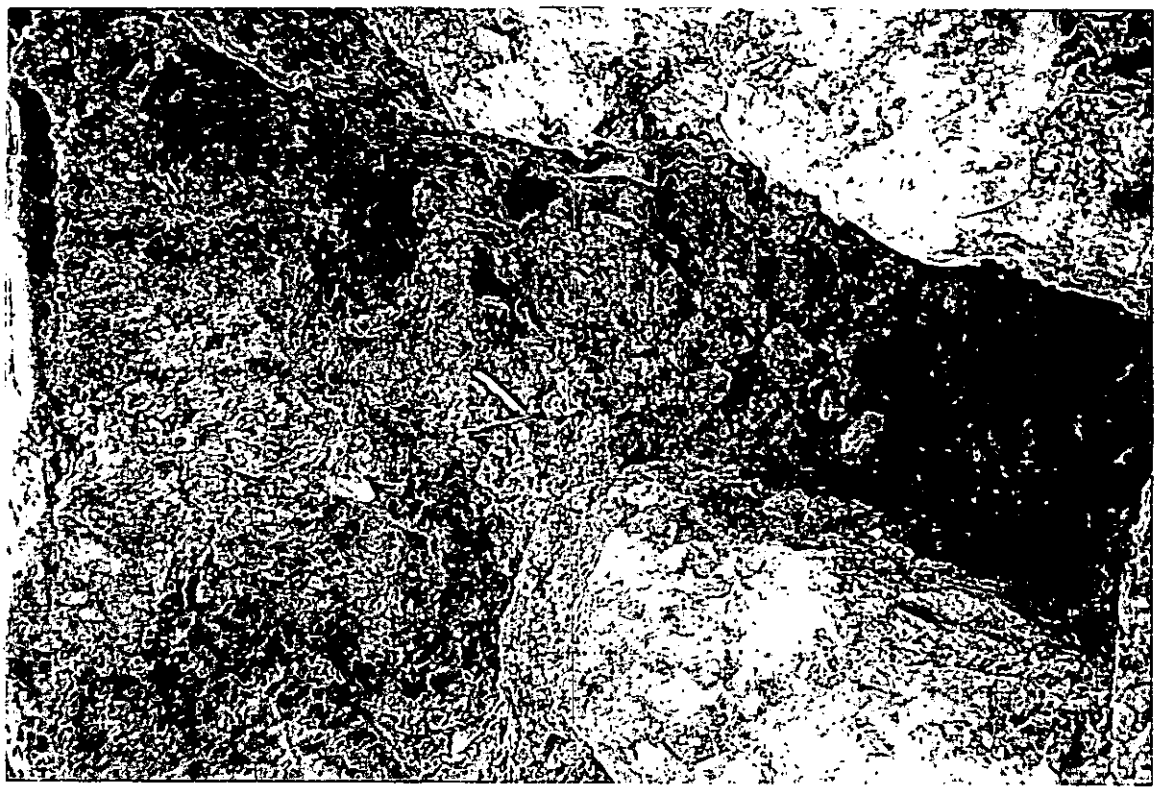
*Circle whichever applies.

APPENDIX B

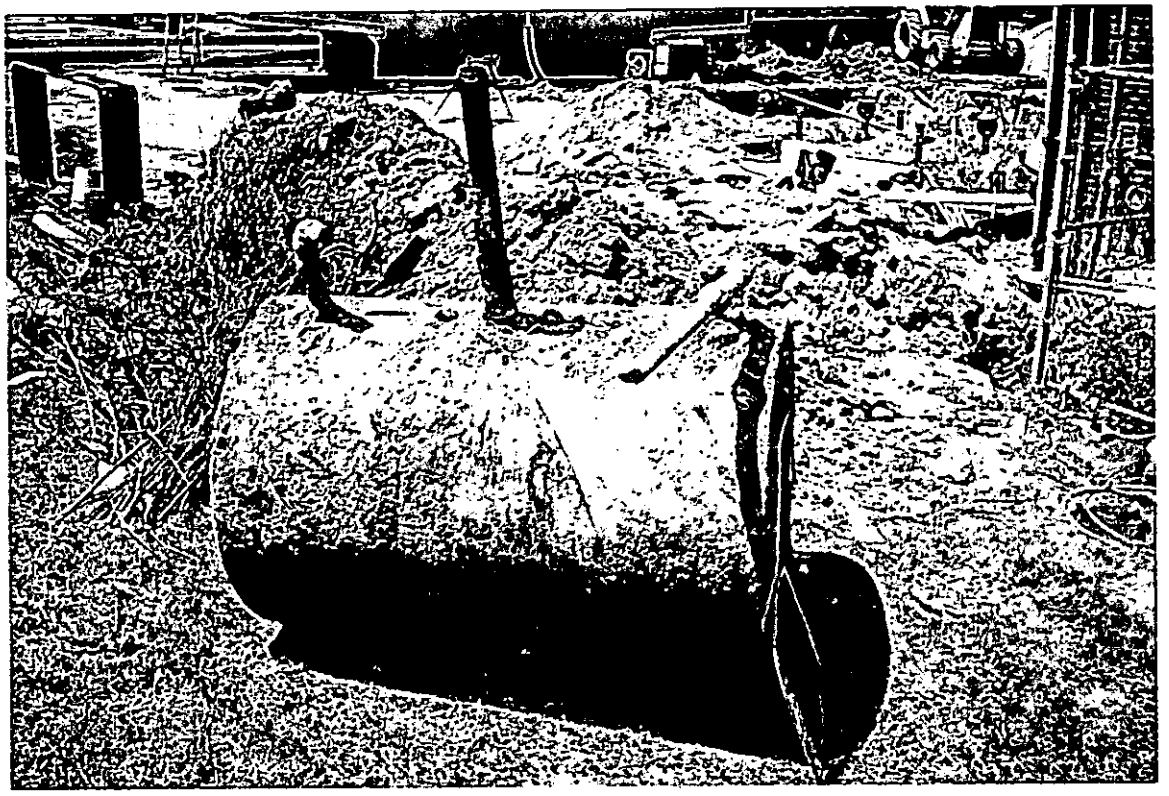
Looking East, former dispenser Islands and piping run

Looking west, area of former dispensers

Excavated piping run west of dispenser # 1



Line excavation, former dispenser #1 top left (note debris)



Excavated Used Oil UST

Soil pile generated by excavation of used oil UST

Used Oil pit after excavation

Used oil pit being backfilled with gravel fill

APPENDIX C

STATE FIRE MARSHAL/BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS
SOIL DISPOSAL/TREATMENT NOTIFICATION FORM

This form should be completed and submitted within 90 days of generating a stockpile, within 180 days of placing the soil in portable containers, or prior to treatment, whichever comes first. A separate form should be completed for each stockpile generated

OWNER/OPERATOR INFORMATION

OWNER/OPERATOR NAME	CONTACT PERSON	AREA CODE-PHONE
Emro Marketing Company	Mr. Phil Pavlovicz	(937) 322-1873

ADDRESS	CITY	STATE	ZIP CODE
207 Walter Street	Springfield	Ohio	

FACILITY WHERE SOILS WERE GENERATED: BUSTER FACILITY NO: 8770081			FACILITY WHERE SOILS WILL BE DISPOSED OF OR TREATED:		
FACILITY NAME: Bonded Station #1056			FACILITY NAME: Evergreen Recycling and Disposal Facility		
ADDRESS: 939 East River Road			ADDRESS: 2625 East Broadway		
CITY: Rossford	STATE: Ohio	ZIP CODE:	CITY: Northwood	STATE: Ohio	ZIP CODE: 43619
AREA CODE-PHONE: None	COUNTY: Wood		COUNTY:	STOCKPILE DESIGNATION:	

DATE STOCKPILE WAS GENERATED July 9, 10, 15, 1997

DISPOSITION OR TREATMENT OF STOCKPILE (provide the number of cubic yards in the appropriate place below)

Tons		(Check applicable)	
_____	Soil analysis falls below category 1 action levels	_____ on-site	_____ off-site
_____	One time landfarming	_____ on-site	_____ off-site
_____	Multiple application landfarming	_____ on-site	_____ off-site
_____	Confined treatment area or process	_____ on-site	_____ off-site
_____	Alternative treatment method	_____ on-site	_____ off-site
156.60	Disposal at treatment facility		
_____	Returned to excavation (below site specific category action levels)		
_____	Returned to excavation (above site specific category action levels)		
_____	Disposal at a landfill		

*****CONTINUED ON REVERSE SIDE*****

For Office Use Only

Report # _ _ _ _ _ _ _ - _ _ _ - _ _ _ _ _

CORD:_____ STAT:_____ PRIO:_____ CLASS:_____ LTE:_____ CYDS:_____

REVIEWED BY: _____ DATE: _____

ENTERED BY: _____ DATE: _____

CERTIFICATION OF RECEIPT FOR BIOREMEDIATION

THIS IS TO CERTIFY THAT **156.60** TONS OF PETROLEUM CONTAMINATED SOIL FROM **EMRO, Station #3642** LOCATED AT **939 E. River Road, Rossford, OH 43460** HAS BEEN RECEIVED FOR BIOREMEDIATION BY EVERGREEN RECYCLING AND DISPOSAL FACILITY, 2625 EAST BROADWAY, NORTHWOOD, OHIO 43619. THIS RECEIPT TOOK PLACE ON **July 9, 10 and 15, 1997.**

Signature _____ Date 10/7/97

Larry G. Riddle
Division President

APPENDIX D

Aqua Tech Environmental Laboratories, Inc.

ATEL Sample No:RF0001
Sample Date: 07/15/97
Date Received: 07/15/97
Date Analyzed: 07/15/97
Sample Matrix: Soil

Client: ATC, Inc.
Client Sample No.: UST 001
Dilution Factor: 10.0
Analyst: JSM & JSR

U.S. METHOD 8020

Benzene	<0.050
Toluene	<0.050
Ethyl Benzene	<0.050
Total Xylenes	<0.100

SURROGATE	% RCV	RANGE
a,a,a-Trifluorotoluene	104	60-125%

U.S. METHOD 8015

Gasoline Range Organics <50.0

SURROGATES	% RCV	RANGE
a,a,a-Trifluorotoluene	87	50-200%
Bromofluorobenzene	110	50-200%

All results reported in mg/Kg wet weight (PPM).

Analyst _____

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CHAIN-OF-CUSTODY

ATEL

Aqua Tech Environmental Laboratories, Inc.

Client Name:	ATC Associates
Project Name:	Rossford Ohio
Project No.	
Sampler:	Bill Glaze

Sample ID	Date	Time	grab/ comp	Matrix	ATEL Lab Number	# of Cont.	Analysis Required
UST001	7-15	1402	G	So.1	RF0001	1	BTEX / TPH

SEND RESULTS TO:

Person: ATC Assoc. Inc. c/o Bill Glaze

Company:

Street: 687 N. James Rd

City: Columbus, Ohio State: Zip: 43219

Phone: 614-238-0934 Fax: 614-238-0934

ATEL Quote #: Company PO #:

Relinquished by: Bill Glaze	Date/Time	Received by: James L Mann	Date/Time 7/17/97 1305
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received at Laboratory by:	Date/Time

Comments:	Method of Shipment
	Cooler Temperature: °C

Canton: 5300 Fulton Drive NW, Canton, Ohio 44718, 800-635-3222 fax 216-494-2961

Marion: 1776 Marion-Waldo Rd, Marion, Ohio 43302, 800-873-2835 fax 614-389-1481

Sanford: 936 N Horner Boulevard, Sanford, North Carolina 27330, 800-522-2832 fax 919-774-7068

Tucson: 2700 E Bilby Rd. Bldg. A, Tucson, Arizona 85706, 800-879-2835 fax 520-573-6550

Melmore: 6878 S State Rt. 100, Melmore, Ohio 44845, 800-858-8869 fax 419-397-2229

Mission Viejo: 27531 Chantaga Drive, Mission Viejo, California 92692, 800-263-2261 fax 714-348-1922

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

ACCREDITED

July 31, 1997

Ms. Mija Ranck
ATC Associates Inc.
687 North James Road
Columbus, OH 43229

Re: Four Soil VOC, TPH
Results Faxed July 30, 1997
Speedway - River Road
ATC Work Order Number 97073458
ATC Project Number 02061.0038

Dear Ms. Ranck:

Attached is an eight page report of results for the Organic Analyses for the two soil samples which were submitted to the ATC Environmental/Analytical Testing Division on July 22, 1997, on behalf of the Speedway. The volatile samples were analyzed on a Finnigan Incos 50 GC/MS/DS system, complete with Superincos Software, via SW 846 Method 8240A for Purgeable Organic Compounds. Prior to analysis, the system was calibrated with the appropriate standard. Total Hydrocarbon analyses were performed on a Perkin-Elmer 1600 Series Infrared Spectrophotometer according to EPA-600/4-79-020 Method 418.1.

The analytical procedures are performed in accordance with the ATC Analytical Standard Operating Procedures, which are based on the methods referenced in this report. These SOPs are available for your review upon request.

All soil results are reported on an "as received" basis unless otherwise specified. Any associated Quality Control information will be maintained in the Testing Division files, a copy of which can be forwarded to you upon request. After a thirty-day period, a fee will be assessed for this additional information.

Additional copies can be provided at a minimum cost of $30.00 per copy.

Results in this report relate only to the items tested.

Respectfully submitted,

ATC ASSOCIATES INC.

Donna S. Spyker

Donna S. Spyker
GC Group Leader
Environmental/Analytical
Testing Division

ATC Associates, Inc.
687 N. James Road
Columbus OH 43219

Attn : Mija Ranck

Lab Proj #: 97073458
Date : 07/30/1997

Cust Proj #: 02061.0038 Speedway River Rd.

Date Received : 07/22/1997
Date Completed: 07/30/1997

REPORT OF ANALYSIS

ATC Sample Number	Client Sample Description	ATC Sample Number	Client Sample Description
97-015745	UST001	97-015746	STK001
97-016480	Method Blank		

This report shall not be reproduced except in full, without approval of the Laboratory.

Donna S. Spyker

Certified By
Donna S. Spyker

Date of Report: 07/30/97
Project Number: 97073458
Lab ID: 97-0015745
Date Collected: 07/15/97 00:00
Collected By: Client
Date Received: 07/22/97 11:15
C of C Number:
Temperature: Received on Ice

Attention: Mija Ranck
ATC Associates, Inc.
687 N. James Road
Columbus OH 43219

Sample Desc: UST001

	Result	Unit	PQL	Procedure	Test Date
ORGANIC					
GCMS VOLATILES					
1,1,1-Trichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2,2-Tetrachloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2-Trichloroethane	<5	ug/kg	5	SW 8240	07/24/97
1,1-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
1,2,3-Trichloropropane	<100	ug/Kg	100	SW 8240	07/24/97
1,2-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,2-Dichloropropane	<5	ug/Kg	5	SW 8240	07/24/97
2 Hexanone	<50	ug/Kg	50	SW 8240	07/24/97
2-Chloroethyl Vinyl Ether	<10	ug/Kg	10	SW 8240	07/24/97
Acetone	<100	ug/Kg	100	SW 8240	07/24/97
Acrolein	<10	ug/Kg	10	SW 8240	07/24/97
Acrylonitrile	<100	ug/Kg	100	SW 8240	07/24/97
Benzene	<5	ug/Kg	5	SW 8240	07/24/97
Bromodichloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Bromoform	<5	ug/Kg	5	SW 8240	07/24/97
Bromomethane (Methyl Bromide)	<10	ug/Kg	10	SW 8240	07/24/97
cis-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
cis-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
Carbon Tetrachloride	<5	ug/Kg	5	SW 8240	07/24/97
Chlorobenzene	<5	ug/Kg	5	SW 8240	07/24/97
Chloroethane	<10	ug/Kg	10	SW 8240	07/24/97
Chloroform	<5	ug/Kg	5	SW 8240	07/24/97
Chloromethane	<10	ug/Kg	10	SW 8240	07/24/97
Carbon Disulfide	<100	ug/Kg	100	SW 8240	07/24/97
Dichlorodifluoromethane (Freon 12)	<100	ug/Kg	100	SW 8240	07/24/97
Dibromochloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Ethylbenzene	<5	ug/Kg	5	SW 8240	07/24/97
Ethyl Methacrylate	<100	ug/Kg	100	SW 8240	07/24/97
Iodomethane	<100	ug/Kg	100	SW 8240	07/24/97
Methylene Chloride (Dichloromethane)	<5	ug/Kg	5	SW 8240	07/24/97
2-Butanone (Methyl Ethyl Ketone)	<100	ug/Kg	100	SW 8240	07/24/97
4-Methyl-2-pentanone (MIBK)	<50	ug/Kg	50	SW 8240	07/24/97
o-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
m,p-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
Styrene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,4-Dichloro-2-Butene	<100	ug/Kg	100	SW 8240	07/24/97
Trichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Trichlorofluoromethane (Freon 11)	<10	ug/Kg	10	SW 8240	07/24/97
Tetrachloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Toluene	<5	ug/Kg	5	SW 8240	07/24/97
Vinyl Acetate	<50	ug/Kg	50	SW 8240	07/24/97
Vinyl Chloride	<10	ug/Kg	10	SW 8240	07/24/97
OTHER/MISC.					
Total Petroleum Hydrocarbons-Infrared	<10	mg/Kg	10	EPA 418.1	07/29/97

Date of Report: 07/30/97
Project Number: 97073458
Lab ID: 97-0015746
Date Collected: 07/15/97 00:00
Collected By: Client
Date Received: 07/22/97 11:15
C of C Number:
Temperature: Received on Ice

Attention: Mija Ranck
ATC Associates, Inc.
687 N. James Road
Columbus OH 43219

Sample Desc: STK001

	Result	Unit	PQL	Procedure	Test Date
ORGANIC					
GCMS VOLATILES					
1,1,1-Trichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2,2-Tetrachloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2-Trichloroethane	<5	ug/kg	5	SW 8240	07/24/97
1,1-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
1,2,3-Trichloropropane	<100	ug/Kg	100	SW 8240	07/24/97
1,2-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,2-Dichloropropane	<5	ug/Kg	5	SW 8240	07/24/97
2 Hexanone	<50	ug/Kg	50	SW 8240	07/24/97
2-Chloroethyl Vinyl Ether	<10	ug/Kg	10	SW 8240	07/24/97
Acetone	<100	ug/Kg	100	SW 8240	07/24/97
Acrolein	<10	ug/Kg	10	SW 8240	07/24/97
Acrylonitrile	<100	ug/Kg	100	SW 8240	07/24/97
Benzene	<5	ug/Kg	5	SW 8240	07/24/97
Bromodichloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Bromoform	<5	ug/Kg	5	SW 8240	07/24/97
Bromomethane (Methyl Bromide)	<10	ug/Kg	10	SW 8240	07/24/97
cis-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
cis-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
Carbon Tetrachloride	<5	ug/Kg	5	SW 8240	07/24/97
Chlorobenzene	<5	ug/Kg	5	SW 8240	07/24/97
Chloroethane	<10	ug/Kg	10	SW 8240	07/24/97
Chloroform	<5	ug/Kg	5	SW 8240	07/24/97
Chloromethane	<10	ug/Kg	10	SW 8240	07/24/97
Carbon Disulfide	<100	ug/Kg	100	SW 8240	07/24/97
Dichlorodifluoromethane (Freon 12)	<100	ug/Kg	100	SW 8240	07/24/97
Dibromochloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Ethylbenzene	<5	ug/Kg	5	SW 8240	07/24/97
Ethyl Methacrylate	<100	ug/Kg	100	SW 8240	07/24/97
Iodomethane	<100	ug/Kg	100	SW 8240	07/24/97
Methylene Chloride (Dichloromethane)	<5	ug/Kg	5	SW 8240	07/24/97
2-Butanone (Methyl Ethyl Ketone)	<100	ug/Kg	100	SW 8240	07/24/97
4-Methyl-2-pentanone (MIBK)	<50	ug/Kg	50	SW 8240	07/24/97
o-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
m,p-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
Styrene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,4-Dichloro-2-Butene	<100	ug/Kg	100	SW 8240	07/24/97
Trichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Trichlorofluoromethane (Freon 11)	<10	ug/Kg	10	SW 8240	07/24/97
Tetrachloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Toluene	<5	ug/Kg	5	SW 8240	07/24/97
Vinyl Acetate	<50	ug/Kg	50	SW 8240	07/24/97
Vinyl Chloride	<10	ug/Kg	10	SW 8240	07/24/97
OTHER/MISC.					
Total Petroleum Hydrocarbons-Infrared	710	mg/Kg	10	EPA 418.1	07/29/97

Date of Report: 07/30/97
Project Number: 97073458
Lab ID: 97-0016480
Date Collected: 07/15/97 00:00
Collected By: Client
Date Received: 07/22/97 11:15
C of C Number:
Temperature: Received on Ice

Attention: Mija Ranck
ATC Associates, Inc.
687 N. James Road
Columbus OH 43219

Sample Desc: Method Blank

	Result	Unit	PQL	Procedure	Test Date
ORGANIC					
GCMS VOLATILES					
1,1,1-Trichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2,2-Tetrachloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1,2-Trichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,1-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
1,2,3-Trichloropropane	<100	ug/Kg	100	SW 8240	07/24/97
1,2-Dichloroethane	<5	ug/Kg	5	SW 8240	07/24/97
1,2-Dichloropropane	<5	ug/Kg	5	SW 8240	07/24/97
2 Hexanone	<50	ug/Kg	50	SW 8240	07/24/97
2-Chloroethyl Vinyl Ether	<10	ug/Kg	10	SW 8240	07/24/97
Acetone	<100	ug/Kg	100	SW 8240	07/24/97
Acrolein	<10	ug/Kg	10	SW 8240	07/24/97
Acrylonitrile	<100	ug/Kg	100	SW 8240	07/24/97
Benzene	<5	ug/Kg	5	SW 8240	07/24/97
Bromodichloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Bromoform	<5	ug/Kg	5	SW 8240	07/24/97
Bromomethane (Methyl Bromide)	<10	ug/Kg	10	SW 8240	07/24/97
cis-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
cis-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
Carbon Tetrachloride	<5	ug/Kg	5	SW 8240	07/24/97
Chlorobenzene	<5	ug/Kg	5	SW 8240	07/24/97
Chloroethane	<10	ug/Kg	10	SW 8240	07/24/97
Chloroform	<5	ug/Kg	5	SW 8240	07/24/97
Chloromethane	<10	ug/Kg	10	SW 8240	07/24/97
Carbon Disulfide	<100	ug/Kg	100	SW 8240	07/24/97
Dichlorodifluoromethane (Freon 12)	<100	ug/Kg	100	SW 8240	07/24/97
Dibromochloromethane	<5	ug/Kg	5	SW 8240	07/24/97
Ethylbenzene	<5	ug/Kg	5	SW 8240	07/24/97
Ethyl Methacrylate	<100	ug/Kg	100	SW 8240	07/24/97
Iodomethane	<100	ug/Kg	100	SW 8240	07/24/97
Methylene Chloride (Dichloromethane)	<5	ug/Kg	5	SW 8240	07/24/97
2-Butanone (Methyl Ethyl Ketone)	<100	ug/Kg	100	SW 8240	07/24/97
4-Methyl-2-pentanone (MIBK)	<50	ug/Kg	50	SW 8240	07/24/97
o-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
m,p-Xylene	<5	ug/Kg	5	SW 8240	07/24/97
Styrene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,2-Dichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,3-Dichloropropene	<5	ug/Kg	5	SW 8240	07/24/97
trans-1,4-Dichloro-2-Butene	<100	ug/Kg	100	SW 8240	07/24/97
Trichloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Trichlorofluoromethane (Freon 11)	<10	ug/Kg	10	SW 8240	07/24/97
Tetrachloroethene	<5	ug/Kg	5	SW 8240	07/24/97
Toluene	<5	ug/Kg	5	SW 8240	07/24/97
Vinyl Acetate	<50	ug/Kg	50	SW 8240	07/24/97
Vinyl Chloride	<10	ug/Kg	10	SW 8240	07/24/97
OTHER/MISC.					
Total Petroleum Hydrocarbons-Infrared	<10	mg/Kg	10	EPA 418.1	07/29/97

QA/QC Summary
ATC Lab Project No. 97073458

Sample ID	Client ID	Surrogate	% Recovery	QC Range	Method	Run Date
BLK		Toluene-d8	103	81-117	SW 8240A	7/24/97
		Bromoflouorbenzene	102	74-121		
		1,2-Dichloroethane-d4	101	70-121		
97-15745	UST001	Toluene-d8	101	81-117	SW 8240A	7/24/97
		Bromoflouorbenzene	93	74-121		
		1,2-Dichloroethane-d4	94	70-121		
97-15746	STK001	Toluene-d8	96	81-117	SW 8240A	7/24/97
		Bromoflouorbenzene	93	74-121		
		1,2-Dichloroethane-d4	96	70-121		
MS		Toluene-d8	113	81-117	SW 8240A	7/24/97
		Bromoflouorbenzene	80	74-121		
		1,2-Dichloroethane-d4	93	70-121		
MSD		Toluene-d8	116	81-117	SW 8240A	7/24/97
		Bromoflouorbenzene	86	74-121		
		1,2-Dichloroethane-d4	95	70-121		

QA/QC Summary
ATC Lab Project No. 97073458

Client ID
Sample ID 97-15212

Analyte	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	% Recovery	MSD Conc (ug/Kg)	% Recovery	%RPD	QC Limits RPD	QC Limits Recovery	Method	Run Date
1,1-DCE	50	0	37.0	74	43.6	87	16	22	65-125	SW 8240	7/24/97
TCE	50	0	38.8	78	42.3	85	9	24	75-111		
Benzene	50	0.14	42.5	85	46.6	93	9	21	73-124		
Toluene	50	1.1	49.5	97	54.7	107	10	21	73-130		
Chlorobenz	50	0	43.4	87	49.0	98	12	21	60-133		

97 NOV 19 A 8:07

QA/QC Summary
ATC Lab Project No. 97073458

Client ID
Sample ID MS/MSD

Analyte	Spike Added (mg/Kg)	Sample Conc (mg/Kg)	MS Conc (mg/Kg)	% Recovery	MSD Conc (mg/Kg)	% Recovery	%RPD	QC Limits RPD	QC Limits Recovery	Method	Run Date
Diesel	450	QL	414	92	442	98	6	20	80-120	EPA 418.1	7/29/97

UEC
USX Engineers & Consultants, Inc
A subsidiary of USX Corporation
USX

H & E[redacted]ental Labo[redacted]
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

6207458

No 6930E

Emro Unit Name & No. Speedway Station

Unit Address 939 River Rd City Rossford State Ohio

Project or AFE No. _____ Lab Work Order No. _____

Consultant Name Bill Glaze Tel. No. 614-238-0484

Emro Project Manager _____ Tel. No. _____

Consultant Firm ATC Assoc City _____ State _____

Field Sample No.	Sample Location	Date & Time Collected	H^2O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO_3	Pres. Used: H_2SO_4	Condition on Receipt: Status	Condition on Receipt: Initial
1700											
15745 UST001	Westwall	7/15 1335	H_2O	VOA 8240 TPH 418.1	8240/418.1	2/40z				Good	DM
15746 STK001	~~Eastwall~~ Stockpile	7/15 1345	H_2O	VOA 8240 TPH 418.1	8240/418.1	2/40z				"	"

Sampler's Name (please print) Bill Glaze Signature Bill Glaze

Special Instructions Need hard copy by 7/31 352 089 4941

Possible Lab Hazards N/A

Signatures: (Name, Company, Date & Time)

1. Relinquished by _____
   Received by Doug Monroe UEC 7-18-97 11AM
2. Relinquished by Doug Monroe UEC 7-21-97 4PM
   Received by Del Rye 7 22 97 11:15A
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

USX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/22/97

Customer: CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
Emro Marketing Co. (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No. : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

TRACKING NUMBER: 72522

UEC ID	CLIENT ID	ANALYTE	PPM	LOD/PPM	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
22370	L-1	TPH-GASOLINE/SOIL	1000	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/21/97
22371	D-3	TPH-GASOLINE/SOIL	380	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
2372	B1-28	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
22373	B2-18	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
2374	B2-12	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
2375	B3-40	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97

NOTES: METHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
* = Information not supplied by client. < = less than.
# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : Brian L Schuler Date: 7-22-97

APPROVED: Mark R. Banister Date: 7/23/97
Mark R. Banister, CIH, Quality Assurance Officer

USX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

Customer: CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
Emro Marketing Co. (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : ATC Associates, Inc. (Emro Eastern) Phone No. : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

TRACKING NUMBER: 72522

UEC ID	CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
22370	L-1	BENZENE/SOIL	1700	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22370	L-1	TOLUENE/SOIL	19000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22370	L-1	ETHYLBENZENE/SOIL	11000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22370	L-1	XYLENE/SOIL	76000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22371	D-3	BENZENE/SOIL	150	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22371	D-3	TOLUENE/SOIL	2300	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22371	D-3	ETHYLBENZENE/SOIL	3100	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22371	D-3	XYLENE/SOIL	26000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22372	B1-28	BENZENE/SOIL	9	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22372	B1-28	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22372	B1-28	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22372	B1-28	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
22373	B2-18	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
22373	B2-18	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
22373	B2-18	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
22373	B2-18	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
22374	B2-12	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22374	B2-12	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22374	B2-12	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22374	B2-12	XYLENE/SOIL	14	4	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22375	B3-40	BENZENE/SOIL	12	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22375	B3-40	TOLUENE/SOIL	10	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22375	B3-40	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
22375	B3-40	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97

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* = Information not supplied by client. < = less than.
# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : [signature] Date: 7/22/97

APPROVED: Mark R. Banister Date: 7/23/97
Mark R. Banister, CIH, Quality Assurance Officer

4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

IH & Environmental
Health Laboratory

UEC
USX Engineers
& Consultants, Inc.

EMRO FINAL REPORT FAX TRANSMITTAL

Total Pages Faxed: 4

To:	Mija Ranch	Company:	ATC Assoc.
Date:	7/23/97	Fax #:	614-238-0934
Station ID #:	Speedway 3642	UEC Tracking#:	72522

This is the final, approved copy of the report for the EMRO project samples you recently submitted. A hard copy of this transmittal will be mailed within one working day of this fax. The following items are included in this report:

- [✓] Test Results
- [✓] Chain of Custody
- [ ] QC Summary
- [ ] Other attachments or special items: _____
- [ ] Conf. Sheet for this fax
- [ ] Client Comment Form

Our performance with regard to the agree-upon schedule of analytical and report due dates is summarized below. Please feel free to contact Mark Banister (at 412-825-2400) with any questions you may have about this performance.

	Scheduled:	*Actual:*
Date Samples Received:		7/15/97
Date Analytical Due:	7/22	7/23
Date Report Faxed:	7/22	7/23
Date Report Mailed:	7/23	7/24

1996 EMRO Report On-time Performance: 95.9 %
1997 EMRO Report On-time Performance: 94.9 % (Through 4/30/97)

UEC
USX Engineers & Consultants, Inc.
A subsidiary of USX Corporation
USX

H & Environmental Health Laboratory
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

7522

No 6931 E

Emro Unit Name & No. SPEEDWAY #3642 Unit Address 939 E. RIVER RD City ROSSFORD State OH

Project or AFE No. _____ Lab Work Order No. _____ Consultant Name MIJA RANCK Tel. No. 614-238-0984

Emro Project Manager PHIL PAVLOVICZ Tel. No. 937-322-1873 Consultant Firm ATC ASSOCIATES City COLUMBUS State OH

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO₃	Pres. Used: H₂SO₄	Condition on Receipt: Status	Condition on Receipt: Initial
L-1	PIPING LINE	7/9/97 1305		BTEX/TPH	8020/8015	40z				GOOD	DM
D-3	DISPENSER	1345									
B1-28		1420									
B2-18		7/10/97 0880									
B2-12		0810									
B3-40		1435									

Sampler's Name (please print) Mija A. Ranck (MIJA RANCK) Signature _____

Special Instructions please return ice & cooler

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by Mija A Ranck 7/14/97 14:00
   Received by Dawn Myers UEC 7-15-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

USX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

Customer: CD-124L-3	ATTENTION: Mr. Bill Glaze (PP-Columbus)
Emro Marketing Co. (Eastern) P.O. Box 1500 Springfield, OH 45501	Work Requested by : ATC Associates, Inc. (Emro Eastern) Phone No : 614-238-0984 C.O.C. #: 3523E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 9999 SITE LOCATION : OH=ROSSFORD

TRACKING NUMBER: 72590

UEC ID	CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
22838	MW001	BENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
22838	MW001	TOLUENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
22838	MW001	ETHYLBENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
22838	MW001	XYLENE/WATER	<4	4	EPA 602	07/15/97	07/18/97	07/24/97

NOTES: METHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS, UNLESS OTHERWISE SPECIFIED.
* = Information not supplied by client. < = less than.
# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : _____ Date: 7-25-97

APPROVED: Mark R. Banister Date: 7/25/97
Mark R. Banister, CIH, Quality Assurance Officer

4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

IH & Environmental
Health Laboratory

UEC
USX Engineers
& Consultants, Inc.

EMRO FINAL REPORT FAX TRANSMITTAL

Total Pages Faxed: 3

To:	Bill Glaze	Company:	ATC Assoc.
Date:	7/25/97	Fax #:	614-238-0934
Station ID #:	Speedway 9999	UEC Tracking#:	72590

This is the final, approved copy of the report for the EMRO project samples you recently submitted. A hard copy of this transmittal will be mailed within one working day of this fax. The following items are included in this report:

- [x] Test Results
- [x] Chain of Custody
- [ ] QC Summary
- [ ] Other attachments or special items: _____
- [ ] Conf. Sheet for this fax
- [ ] Client Comment Form

Our performance with regard to the agree-upon schedule of analytical and report due dates is summarized below. Please feel free to contact Mark Banister (at 412-825-2400) with any questions you may have about this performance.

	Scheduled:	*Actual:*
Date Samples Received:		7/18/97
Date Analytical Due:	7/25	7/25
Date Report Faxed:	7/25	7/25
Date Report Mailed:	7/28	7/28

1996 EMRO Report On-time Performance: 95.9 %
1997 EMRO Report On-time Performance: 94.9 % (Through 4/30/97)

UEC
USX Engineers
& Consultants, Inc
A subsidiary of USX Corporation
USX

& Environmental Laboratory
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

72560

No 3523 E

Emro Unit Name & No. Speedway Station
Unit Address 939 River Rd City Rossford State Ohio
Project or AFE No. _____ Lab Work Order No. _____
Consultant Name Bill Glaze Tel. No. 614-888-0584
Emro Project Manager Phil Pavlovicz Tel. No. 937 322-1873
Consultant Firm ATC Assoc. City Columbus State Ohio

Field Sample No.	Sample Location	Date & Time Collected	H_2O Soil	Analysis Requested		Container Type/Size	Pres. Used			Condition on Receipt	
				Test	Method No.		HCL	HNO_3	H_2SO_4	Status	Initial
MW001	Rossford, Ohio	7/15 14:00	H_2O	BTEX	602	2/40 mL				Good	DM

Sampler's Name (please print) Bill Glaze Signature Bill Glaze

Special Instructions Need hard copy by 7:31

Possible Lab Hazards _____

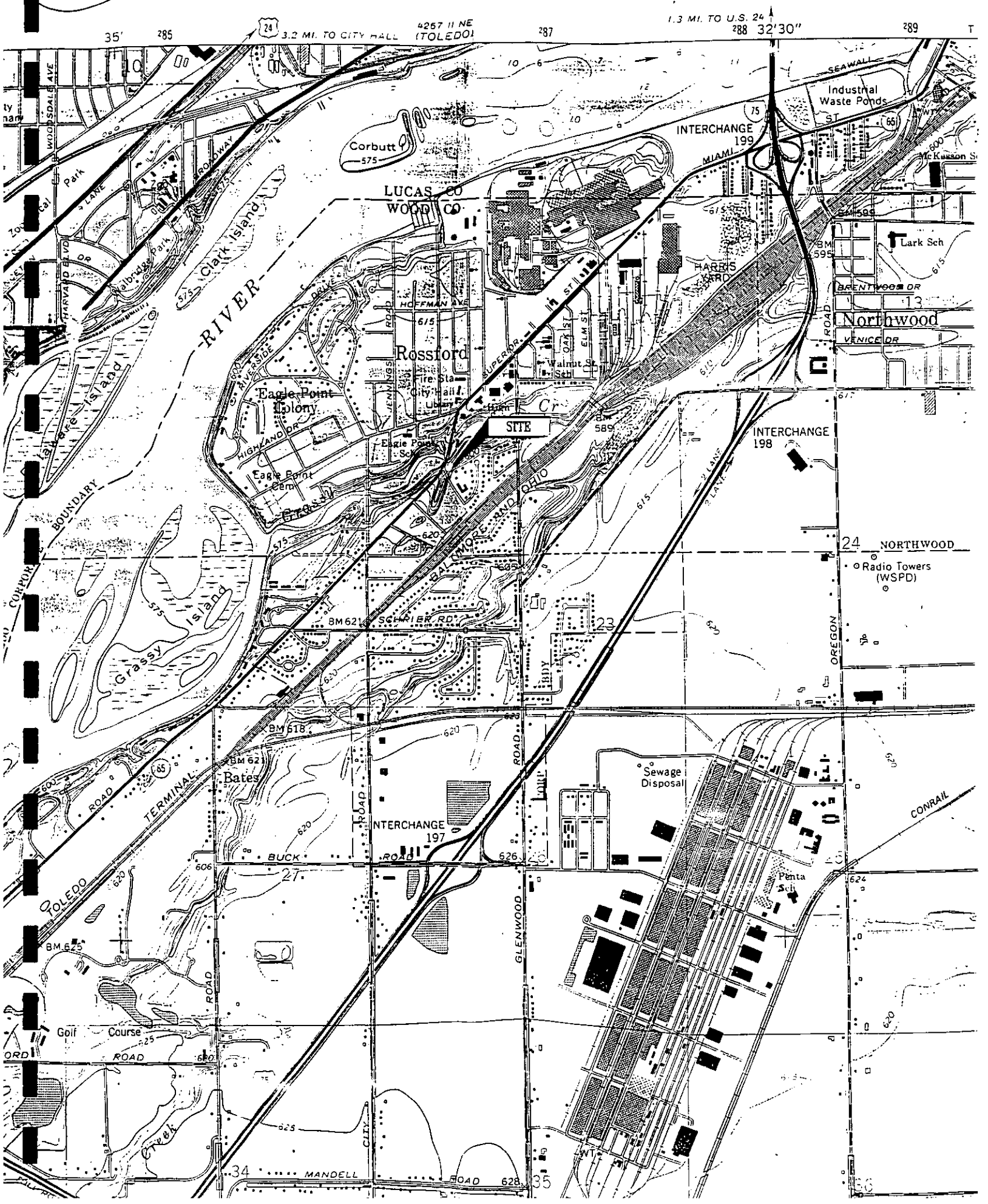
Signatures: (Name, Company, Date & Time)

1. Relinquished by _____
   Received by Dan Morrow UEC 7-18-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

APPENDIX E


No Logs
Wood County
Rossford or Northwood Twp.
02061.0038
Task 6
4267 II NE (TOLEDO)
3.2 MI. TO CITY HALL
1.3 MI. TO U.S. 24
32'30"
Industrial Waste Ponds
INTERCHANGE 199
Corbutt
LUCAS CO
WOOD CO
Clark Island
RIVER
Rossford
Fire Sta
City Hall
Library
Eagle Point Colony
Eagle Point Sch
Eagle Point Cem
SITE
Walnut St Sch
Lark Sch
HARRIS YARD
Northwood
INTERCHANGE 198
NORTHWOOD
Radio Towers (WSPD)
Sewage Disposal
Penta Sch
INTERCHANGE 197
Bates
Grassy Island
Golf Course
BOUNDARY
TERMINAL ROAD
BUCK ROAD
GLENWOOD ROAD
OREGON ROAD
SCHRIBER RD
MANDELL ROAD
BALTIMORE AND OHIO
CONRAIL
TOLEDO
Creek
BM 621
BM 618
BM 625
BM 595
BM 589
23
24
27
34
35

APPENDIX F

Site Feature Scoring System (SFSS) Checklist and Recommended Table of Contents

(Submit to SFM as appendix or addendum to site check or site assessment)

Date:	October 24, 1997	Facility:	Bonded Station #1056
Owner/Operator*:	Emro Marketing Company	Address:	939 East River Road
Address:	207 Walter Street		Rossford, Ohio
	Springfield, Ohio	County:	Wood
Phone Number:	(937) 322-1873	Incident#:	8770081

Each SFSS must include the following:

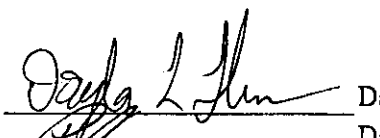
Check	Page #	
X	F	A. The completed SFSS table prepared for the site (see Appendix E).
X	F	B. A report on the justification for each score for each site feature, which addresses:
X	E	1. A survey of one-quarter mile radius around the site to determine distances to in-use potable water supply sources (surface water bodies, public water supply wells, private water wells) and including:
	E	a. Copies of the well logs obtained from ODNR and/or the local health department.
X	F	b. Whether the site is located within a designated sensitive area as defined in 1301:7-9-09.
X	H	2. Average depth to groundwater determined from the ground surface to the shallowest zone of. saturation, including:
X	H	a. Copies of information obtained to determine depth to groundwater.
X	H	3. Determination of the predominant soil type of the substratum where the release occurred, including:
X	H	a. Documentation of the soil type encountered.
		4. Natural and/or man-made conduits or receptors, including:
X	F	a. A completed copy of the Site Feature 4 Worksheet.
X	Fig 2	b. Conduits indicated on a site map.
X	Tbl 1, 2 & 3	C. Soil and/or groundwater sample results in table format, with actual contaminant levels stated (ND is not acceptable).

Checklist Key

T - Tables Section of Appendices

F - Figures Section of Appendices

A - Appendix A

Preparer Name	Douglas L. Flinn	Preparer Signature		Date	October 24, 1997
Owner/Operator*	Phil Pavlovicz	Owner/Operator*		Date	11/14/97

*Circle whichever applies.

Site Feature Scoring System

SITE FEATURES	Column A Score 20 If True	Score	Column B Score 15 If True	Score	Column C Score 10 If True	Score	Column D Score 5 If True	Score
1. Distance of UST system from closest potable water supply, well or intake currently in use	>1000 Feet	20	301-1000 Feet		<301 Feet		Inside of designated sensitive area	
2. Average depth to groundwater	>50 Feet		31-50 Feet		15-30 Feet	10	<15 Feet	
3. Predominant soil type of substratum	Clay or Shale		Silt, clayey sands, or fine sandstones	15	Silty sand, fine sand, sandstone, or unknown		Clean sand, gravel, or conglomerate	
4. Natural and/or manmade conduits or receptors	<8	20	8-10		11-13		>13	
Subtotal		40		15		10		0
							TOTAL	65

Site Feature Worksheet

Basements or subsurface foundations within 100 feet of UST system	4 points	0
Storm sewer within 50 feet of UST system	4 points	4
Sanitary sewer within 50 feet of UST system	4 points	0
Septic system leach field within 50 feet of UST system	2 points	0
Water line main within 50 feet of UST system	1 point	1
Natural gas line main within 50 feet of UST system	1 point	0
Bedrock area prone to dissolution along joints of fractures within 100 feet of UST system	1 point	0
Faults or known fractures within 100 feet of UST system	1 point	0
Buried telephone/television cable main within fifty feet of UST system	1 point	0
Buried electrical cable main within fifty feet of UST system	1 point	0
	TOTAL	5

Action Level Table

(All concentrations in parts per million)

TOTAL SCORE	CATEGORY 4 >71	CATEGORY 3 70-51	CATEGORY 2 50-31	CATEGORY 1 <31
Constituents Level in Soil:				
Benzene	0.005	**0.335**	0.170	0.006
Toluene	12	**9**	7	4
Ethylbenzene	18	**14**	10	6
Total Xylenes	85	**67**	47	28
Constituent Level in Groundwater:				
Benzene	0.005	**0.005**	0.005	0.005
Toluene	1	**1**	1	1
Ethylbenzene	0.700	**0.700**	0.700	0.700
Total Xylenes	10	**10**	10	10
TPH Level in Soil:				
Analytical Group No. 1	600	**450**	300	105
Analytical Group Nos. 2, 3, and 4	1156	**904**	642	380

SENSITIVE AREA DETERMINATION

Evaluations of each factor used to determine whether a site is located within a sensitive area (per OAC 1301: 7-9-9) are presented in outline form below.

The subject site is not located within a designated environmentally sensitive area as set forth in the Ohio Administrative Rule 1301: 7-9-9. The site is located in Wood County, which has no designated sensitive areas.

ODNR records indicate that the subject site is not located within 50 feet of a private supply well or developed spring.

The site is not located within 300 feet of a public water supply well.

The site is not located within 1,000 feet of a public water supply surface water intake.

The site is not located within 200 horizontal feet of a lake or reservoir which is a minimum of five acres in area.

The site is not located within 100 horizontal feet of a sub-grade structure utilized for pedestrian traffic or a traffic tunnel.

Finding: The site is not located within a sensitive area as defined in OAC 1301: 7-9-9.

DETERMINATION OF SITE SPECIFIC ACTION LEVELS

Evaluation of site features was performed to determine site-specific action levels, in accordance with OAC 1301: 7-9-13. Each evaluation is presented in outline form below.

Average depth to groundwater in the area of the excavation was 15 30 feet.

Soils/substratum beneath the area of the site consist predominantly of silty clays.

Potential contaminant receptors (in accordance with the Site Feature Number 4 Worksheet as outlined in OAC 1301: 7-9-13) were identified based on site utility clearance from the Ohio Utilities Protection Service, site blue prints and associated field observations made during July, 1997).

Finding: The subject site meets criteria for "Category 3" site specific action levels.

APPENDIX G

WELLERT CORPORATION
ENGINEERS, PLANNERS AND SURVEYORS
5136 BEACH ROAD
MEDINA, OHIO 44256

PHONE (330) 239-2699
FAX (330) 239-0272

Rich Loosli
R. Loosli Construction & Maintenance, Inc.
711 West Bagley Road, Unit 5
Berea, OH 44017

August 14, 1997

Reference: UST Inspection Services
Gastown #3642, Rossford, OH

Dear Rich:

Enclosed is the signed BUSTR Permit for the UST removal and upgrade activities performed at the above referenced site. Please sign this original permit and forward to Emro along with the canary copies of the "Inspection Field Report" (2 enclosed).

It has been a pleasure working with you again. If you have any questions, please call me.

Sincerely,

Kenneth A. Letz
Certified UST Inspector
97-0005

k:\kenletz\looslileter.doc

DEPARTMENT OF COMMERCE - DIVISION OF STATE FIRE MARSHAL
BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS

8895 EAST MAIN STREET, P.O. BOX 687
REYNOLDSBURG, OH 43068-0687
(614) 752-7938

RECEIVED
AUG 2 2 1997
ARKETING & TRANSPORTATIO
ROCESSING DEPARTMENT

PERMIT FOR UNDERGROUND STORAGE TANKS

PERMIT NO.: 17763
ISSUE DATE: 7/24/97

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
OWNER NO. 2 EMRO MARKETING COMPANY 500 SPEEDWAY DR ENON, OH 45501 ATTN: DAVE THOMAS	INCIDENT NO. 8770081 FACILITY NO. 870087 GASTOWN #3642 939 E RIVER RD ROSSFORD, OH
III. CONTRACTOR	**IV. LOCAL FIRE DEPARTMENT**
R. LOOSLI CONSTRUCTION	ROSSFORD FIRE DEPT

Post-it® Fax Note 7671 Date 10/20 # of pages ▶ 4
To DAVE ELLIN From DAVE THOMAS
Co./Dept. Co.
Phone # Phone # 419-421-3274
Fax # 614-238-0934 Fax #

V. CONDITIONS: OWNER'S COPY OF PERMIT MUST BE AVAILABLE ON JOB SITE
PERMIT EXPIRES SIX (6) MONTHS FROM DATE ISSUE. FEE IS NON-REFUNDABLE
AS A CONDITION OF THIS PERMIT, A BUSTR INSPECTOR MUST BE ON THE JOB SITE.

VI. PERMIT ISSUED FOR: SEE BELOW

REMOVALS/ABANDONMENTS:
[101] TANK(S): N/A [102] PIPING: N/A [103] TOTAL SYSTEMS: (1)

INSTALLATIONS:
[201] TANK(S): N/A [202] PIPING: N/A [203] TOTAL SYSTEMS: N/A

REPLACEMENT:
[301] TANK(S): N/A [302] PIPING: N/A [303] TOTAL SYSTEMS: N/A

REPAIRS:
[401] TANK(S): N/A [402] PIPING: N/A

UPGRADES:
[501] TANK(S): N/A [502] PIPING: N/A [503] TOTAL SYSTEMS: N/A

TEMPORARY CLOSURE:
[601] SYSTEMS: N/A

CHANGE IN SERVICE:
[701] SYSTEMS: N/A

DEPARTMENT OF COMMERCE • DIVISION OF STATE FIRE MARSHAL •

BUREAU USE ONLY

CERTIFIED INSTALLER: _____ ID No.: 10-89-0173

INSPECTOR'S SIGNATURE: _____ 97-0005 DATE: 7/30/97

COM 5208 (04/95) FORMS DISTRIBUTION: WHITE COPY - TANK OWNER; CANARY AND PINK COPY - BUREAU

APPENDIX H

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9, 1997 DATE FINISHED: Jul 9, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
0.0								
	1	-- -- 4 6	20	0		Asphalt and gravel fill.		
						(OH): Brown silty Clay, damp to moist.		
	2	4 6 8 7	25	0				
5.0	3	4 6 9 9	70	0				
	4	6 12 14 22	80	0		(OH): Brwon Clay with some rock fragments grading to silty/sandy near 11 feet, damp.		
	5	9 19 16 50/2	75	0				
10.0	6	9 11 21 28	80	0		(OH): Grey silty Clay, damp.		
	7	5 8 11 14	80	0				
15.0	8	5 16 12 15	90	0				
	9	6 11 13 13	90	0				
	10	6 8 8 10	100	0.4				
20.0	11	12 19 19 14	100	0.4		(MH): Grey Silt, damp.		
	12	8 17 21 23	80	0		(MH): Brown-grey Silt, saturated.		
25.0	13	9 13 12 10	85	0		(OH): Interbedded clayey Silt and silty Clay with thin zones of sandy saturated silt.		
	14	6 8 10 9	90	2.9				
	15	8 15 14 17	80	2.5		(OH): Grey silty Clay, damp.		
30.0								

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM.: 2 inch
CASING MATERIAL: PVC
SCREEN MATERIAL: PVC
SLOT SIZE: 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emco
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9, 1997 DATE FINISHED: Jul 9, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
30.0								
	16	6, 11, 15, 19	80	1.7		(Continued from previous page) (OH): Grey silty Clay, damp.		
						(MH): Interbedded clayey Silt and sandy Silt, saturated.		
	17	6, 9, 5, 9	90	2.1				
35.0	18	6, 9, 12, 7	80	2.1		(OH): Grey clayey Silt and silty Clay with some sandy silt, saturated.		
	19	6, 7, 9, 8	100	2.5				End of boring.
	20	10, 9, 13, 12	100	2.5				End of sample depth.
40.0								
45.0								
50.0								
55.0								
60.0								

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM.: 2 inch
CASING MATERIAL: PVC
SCREEN MATERIAL: PVC
SLOT SIZE: 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0			Asphalt and gravel fill.	
	2	7 9 8 7	30	0.4			
5.0	3	9 11 7 10	0	NR		No recovery, rock in sample tube.	
	4	7 7 9 8	50	3.4		(OL): Brown silty Clay with some gravel.	
	5	5 6 5 9	0	NR			
10.0	6	7 5 6 4	50	23.4			
	7	5 7 11 17	50	2.5			
15.0	8	7 11 17 19	90	2.1		(OL): Grey silty Clay with more silt and fine gravel.	
	9	7 9 11 7	80	2.5			
	10	6 11 18 17	80	2.1		(OL): Same as above with gravel more abundant.	
20.0	11	8 11 15 11	80	1.2			
	12	9 12 15 9	85	0.8			
25.0	13	7 9 14 11	75	0.4		(CL): Brown-grey silty Clay, damp.	
	14	1 10 8 8	70	0		(CL): Grey very silty Clay with some gravel, damp to moist.	
	15	7 9 10 7	80	0			
30.0							

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E River Rd, Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	6, 8, 11, 17	80	0		(Continued from previous page) (CL): Grey very silty Clay with some gravel, damp to moist.	
	17	6, 5, 7, 8	100	0			
35.0	18	7, 9, 6, 5	100	0		(CL): Grey soft Clay with silt, moist	
	19	5, 7, 6, 5	100	0			
	20	5, 4, 4, 4	100	0			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3

PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro

PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz

DRILLING MTHD: HSA SAMPLE MTHD: Continuous

DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0	NR		Asphalt and Fill.	
	2	5, 7, 4, 6	50	0.4		(CL): Brown silty Clay, damp	
5.0	3	4, 5, 5, 7	50	0			
	4	4, 6, 8, 7	50	0			
	5	6, 5, 5, 5	0	NR			
10.0	6	1, 3, 2, 5	50	0		(CL): Brown-dark brown silty Clay, damp to moist.	
	7	2, 4, 6, 6	100	0.4			
15.0	8	6, 11, 9, 7	60	0.4			
	9	5, 7, 10, 8	60	0.4		(CL): Grey very silty Clay, damp-moist	
	10	5, 9, 11, 10	80	0.4		(CL): Brown silty Clay, damp. Rocks at 26 Feet	
20.0	11	5, 7, 12, 14	70	0			
	12	5, 9, 21, 26	80	0			
25.0	13	7, 5, 13, 11	90	0			
	14	7, 9, 14, 13	50	0.4			
	15	5, 8, 9, 8	90	0.4		(CL): Grey Clay, damp-moist.	
30.0							

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3

PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro

PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz

DRILLING MTHD: HSA SAMPLE MTHD: Continuous

DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	9 4 8 3	60	0.4		(Continued from previous page) (CL): Grey Clay, damp-moist.	
	17	1 2 1 3	100	1.7			
35.0	18	1 1 1 2	60	1.2			
	19	1 2 1 2	60	1.2			
	20	1 2 2 1	60	2.1			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

Speedway LLC
500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

RECEIVED
JUL 05 2013
SFM/BUSTR

FedEx 2nd Day – 7961 4298 8556 –

July 2, 2013

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Public Notice
Speedway Store #3642
939 Dixie HWY
Rossford, Ohio
Wood County
BUSTR Release #: 87000087-N00002
(OAC *1301:7-9-13*, March 1999)

Dear Mr. Krueger:

On July 25, 2011, a *Proposed Tier 3 Evaluation Plan* was submitted to the Bureau of Underground Storage Tank Regulations (BUSTR) for the above referenced site. In a letter dated June 28, 2012 (**Attachment A**), BUSTR approved the submitted *Proposed Tier 3 Evaluation Plan* and therefore, Speedway contacted a widely distributed newspaper in the locality in which the site is located to publish a Public Notice. The Public Notice for the *Proposed Tier 3 Evaluation Plan* was published by The Rossford Record Journal for three (3) consecutive weeks beginning on May 2, 2013, as required by the BUSTR *Technical Guidance Manual* (March 1999). A Proof of Publication containing a copy of the notice is provided in **Attachment B**.

If you have any questions or concerns, please do not hesitate to call me at (937) 863-7667.

Sincerely,

SPEEDWAY LLC

Ryan T. Sabol
Environmental Representative

Attachments: BUSTR Correspondence and Proof of Publication
cc: Mr. James S. Detgen – Senior Project Manager (Cardno ATC)
Ms. Kim Kroenke – Project Manager (Cardno ATC)
Mr. Daniel King – Staff Geologist (Cardno ATC)
Remediation File #3642

ATTACHMENT A

BUSTR CORRESPONDENCE

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

June 28, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER 3 EVALUATION PLAN APPROVAL

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Supplemental Tier 3 Work Plan" dated July 25, 2011. BUSTR has determined that the proposed plan is appropriate and grants approval to implement the plan. Ohio Administrative Code 1301:7-9-13(O), effective March 1999, describes your responsibilities for implementing the plan.

BUSTR notes that your work plan (see the last paragraph of section 5.3) states that only one quarter of groundwater monitoring will be performed to verify the MTBE concentrations and to validate the model. BUSTR believes that, depending on the results of your MTBE degradation rate calculations, additional groundwater monitoring may be necessary to validate the Bioscreen predictions.

All changes to the plan must be submitted to and have prior approval from BUSTR. If conditions warrant, BUSTR may require modification of the plan. A tier evaluation report summarizing the activities conducted and the results of the Tier 3 decisions shall be submitted within 90 days of the completion of the Tier 3 evaluation.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx *or* by calling our office.

Thank you for your cooperation. If you have any questions, please call me at (614)728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
James Detgen - ATC Associates
Donna Kestler - PUSTRCB

ATTACHMENT B

PROOF OF PUBLICATION

PUBLIC NOTICE
Division of the State Fire Marshal
Bureau of Underground Storage Tank Regulations

Pursuant to the rules governing the remediation of releases of petroleum from underground storage tank (UST) system(s), notice to the public is required if a proposed Tier 3 Evaluation plan is submitted to the Bureau of Underground Storage Tank Regulations (BUSTR). Notice is hereby given that a proposed Tier 3 Evaluation plan has been submitted for the UST system(s) located at:

SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD, OH
WOOD COUNTY
Release #87000087-N00002

A proposed Tier 3 Evaluation plan dated July 25, 2011, was submitted by the owner and/or operator of the UST system(s) for the review and approval of the State Fire Marshal (SFM). Once the SFM has reviewed and approved the proposed Tier 3 Evaluation Plan, the owner and/or operator of the release will be required to implement the proposed plan.

A copy of the proposed Tier 3 Evaluation Plan, as well as other documentation relating to this release and the UST system(s) involved, is maintained by the BUSTR, and are available for inspection and copying by the public. Please make all requests for copies or for inspection of the proposed Tier 3 Evaluation Plan and other related documentation in writing to BUSTR, P.O. Box 687, Reynoldsburg, Ohio 43068.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx or by calling our office.

The SFM will accept written comments on this proposed Tier 3 Evaluation Plan for a period of 21 days from the date of publication of this notice. You may submit any comments regarding this site and the proposed Tier 3 Evaluation Plan, in writing, at the above address. For further information, please contact Rick Krueger at (614) 728-5120. Please refere[illegible] release #87000087-N[illegible]1 when making all inquiries or comments.

Published in the Rossford Record Journal, issues of May 2, 9 and 16, 2013.

F OF PUBLICATION

The State of Ohio
County of Wood } ss

John B. Welch, being first fully sworn, says he is the owner and publisher of the Rossford Record Journal, a weekly newspaper published in Perrysburg, Ohio, and of general circulation in Wood County and vicinity; and that the annexed notice was published in said paper for THREE consecutive weeks beginning on 2nd day of MAY, 2013.

John B. Welch

Sworn to and subscribed before me this 29th day of MAY, 2013.

Denise L Current
Notary Public, Wood County, Ohio

DENISE L. CURRENT
Notary Public, State of Ohio
My Comm. Expires Aug. 31, 2016

Description of notice
PUBLIC NOTICE - DIVISION OF THE STATE FIRE MARSHAL BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS

Printer's Fee $207.00

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

October 16, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: CORRECTIVE ACTION RULE DETERMINATION

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your letter dated September 27, 2012 requesting to continue corrective actions using Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999. BUSTR has determined that justification exists to continue conducting correction actions pursuant to OAC 1301:7-9-13, effective March 1999 and therefore approves your request. If the required corrective action activities are not completed by October 1, 2014, this site will automatically be moved into OAC 1301:7-9-13, effective July 1, 2012, unless an additional extension is granted.

Thank you for your cooperation. If you have any questions, please contact Rick Krueger at (614) 728-5120.

Sincerely,

Verne A. Ord
Assistant Chief – BUSTR
Division of State Fire Marshal
Ohio Department of Commerce

xc: Site File
Donna Kestler - PUSTRCB
James Detgen - ATC Associates

Speedway LLC

500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

RECEIVED
SEP 28 2012
SFM/BUSTR

FedEx #7990 6385 6450

September 27, 2012

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Extension Request to Continue Corrective Actions under 1999 Rules
Speedway Store #3642
939 Dixie Highway
Rossford, OH 43460
Lucas County
Release #87000087-N00002

Dear Mr. Krueger:

This letter has been prepared to formally request an extension to continue corrective actions under Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 (i.e. Corrective Action (CA) Rule) for the referenced release. Speedway LLC (Speedway) believes good cause exists to continue corrective actions under the 2005 CA Rule beyond the October 1, 2012 deadline specified in Section 3.2 of the 2012 CA Rule, effective July 1, 2012 as described below:

- A Tier 3 Work Plan was approved by BUSTR on June 28, 2012 and Speedway is in the process of implementing that plan.

Our environmental consultant, ATC Associates Inc. (ATC) has estimated a timeframe of approximately two (2) years will be needed to complete the Tier 3 Activities. **Speedway is respectfully requesting an extension until October 1, 2014 to continue to conduct corrective actions in accordance with the 1999 CA Rule for this release.**

If you have any questions or concerns, please do not hesitate to call me at (937) 863-6513.

Sincerely,
SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Mr. James Detgen – ATC Associates Inc.
Ms. Kimberly Kroenke – ATC Associates Inc.
Ms. Starr Richmond – PUSTRCB
Remediation File # 3642
Reimbursement File #3642

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

June 28, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER 3 EVALUATION PLAN APPROVAL

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Supplemental Tier 3 Work Plan" dated July 25, 2011. BUSTR has determined that the proposed plan is appropriate and grants approval to implement the plan. Ohio Administrative Code 1301:7-9-13(O), effective March 1999, describes your responsibilities for implementing the plan.

BUSTR notes that your work plan (see the last paragraph of section 5.3) states that only one quarter of groundwater monitoring will be performed to verify the MTBE concentrations and to validate the model. BUSTR believes that, depending on the results of your MTBE degradation rate calculations, additional groundwater monitoring may be necessary to validate the Bioscreen predictions.

All changes to the plan must be submitted to and have prior approval from BUSTR. If conditions warrant, BUSTR may require modification of the plan. A tier evaluation report summarizing the activities conducted and the results of the Tier 3 decisions shall be submitted within 90 days of the completion of the Tier 3 evaluation.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx *or* by calling our office.

Thank you for your cooperation. If you have any questions, please call me at (614)728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
James Detgen - ATC Associates
Donna Kestler - PUSTRCB

Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, OH 43068 U.S.A.

614 | 752 7938
Fax 614 | 752 7942
TTY/TDD 800 | 750 0750
www.com.ohio.gov

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2011 JUL 28 PM 12: 36

Speedway LLC

500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

FedEx 2nd Day – 7973 4333 8542

July 25, 2011

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Supplemental Tier 3 Work Plan**
Former Speedway Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger :

Please find attached a copy of the *Supplemental Tier 3 Work Plan* prepared by our consultants ATC Associates Inc. (ATC) for Former Speedway Store #3642 located at 939 Dixie Highway, Rossford, 43460, Wood County, Ohio. This Supplemental Tier 3 Work Plan provides an outline of activities to improve the data set used in the Tier 3 Evaluation fate and transport modeling that will allow for a better calculation of the site specific degradation rate, complete a hydraulic conductivity evaluation and calibration, and develop a site specific target level (SSTL) for MTBE in groundwater.

Speedway LLC (Speedway) requests your review and approval of this Supplemental Tier 3 Work Plan and the associated cost estimates (**Appendix A**). If you have any questions or concerns, please do not hesitate to call me at (937) 863-6513.

Sincerely,

SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Ms. Cindy Duann, Environmental Claims Supervisor, PUSTRCB
Mr. James Detgen, Senior Project Manager, ATC Associates, Inc.
Ms. Cherie Howell, Project Scientist, ATC Associates, Inc.
Remediation File # 3642

ATC ASSOCIATES INC.
Engineering Individual Solutions

8100 Snowville Road
Brecksville, OH 44141-3478
440-838-7177
Fax 440-838-7181
www.atcassociates.com

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2011 JUL 28 PM 12: 36

July 25, 2011

Mr. Eric M. Swaisgood
Environmental Representative
Speedway LLC
500 Speedway Drive
Enon, Ohio 45323

Re: **Supplemental Tier 3 Work Plan**
Former Speedway LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
BUSTR Release #87000087-N00002

Dear Mr. Swaisgood:

ATC Associates Inc. (ATC) is pleased to provide this *Supplemental Tier 3 Work* Plan to Speedway for environmental activities related to the corrective actions at the above referenced site. This Tier 3 Work Plan is proposing a strategy to perform Tier 3 Evaluation, calculate a site specific degradation rate, conduct a hydraulic conductivity evaluation and calibration, update the fate and transport modeling, and develop a site specific target level (SSTL) for MTBE in groundwater.

Please review this *Supplemental Tier 3 Work Plan* and the associated cost estimates (**Appendix A**) for your approval. If you have any questions or concerns, please do not hesitate to call me at (440) 838-7177.

Sincerely,
ATC Associates, Inc.

Cherie Howell
Project Scientist

Jim Detgen
Senior Project Manager

cc: Mr. James Detgen, Senior Project Manager, ATC Associates, Inc.
Ms. Cherie Howell, Project Scientist, ATC Associates, Inc.
Remediation File #3642

ATC ASSOCIATES INC.
Engineering Individual Solutions

8100 Snowville Road
Brecksville, OH 44141-3478
440-838-7177
Fax 440-838-7181
www.atcassociates.com

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2011 JUL 28 PM 12: 36

SUPPLEMENTAL TIER 3 WORK PLAN

Former Speedway LLC Store #3642

939 Dixie Highway
Rossford, OH 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Eric M. Swaisgood
Environmental Representative
SPEEDWAY LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
8100 Snowville Road
Brecksville, Ohio 44141

Project No. 08.75116.0612

Cherie Howell
Task Manager

James Detgen
Senior Project Manager

July 25, 2011

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Appendix A: Supplemental Tier 3 Evaluation Cost Estimate

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway LLC (Speedway) to conduct a Tier 3 Work Plan for Speedway Store #3642 located at 939 Dixie Highway, Rossford, Wood County, Ohio. This Tier 3 Evaluation is proposed following the *Ground Water Sampling Report (Third and Fourth (Final Event)* dated February 22, 2011, and a post Interim Remedial Action as described in *Interim Response Action (IRA) Implementation Report* dated November 17, 2009, which summarized the results of a dual phase extraction remediation system implemented on the site. Refer to **Figure 1 and 2**, Site Location Map and Site Map, respectively, for the general location of the site and a depiction of site features and monitoring well locations.

This Tier 3 Work Plan is proposing to outline a strategy to calculate a site specific degradation rate, conduct a hydraulic conductivity evaluation and calibration, and develop a site specific target level (SSTL) for MTBE in groundwater.

2.0 BACKGROUND

Since the last Tier 2 Addendum report (2006), an additional monitoring well MW-11 was installed, and a IRA dual phase extraction system was run for three (3) months extracting from monitoring wells MW-5 and MW-11. This Tier 3 Work Plan follows those activities and will include the available groundwater analytical data, excluding the IRA dates (September 30, 2009 to January 2010). Since the time of the IRA, it appears that the constituents of concern (CoC) concentrations in groundwater have rebounded for MTBE and are naturally decreasing or stable. Refer to **Tables 1 through 4** for the summary of groundwater analytical data. Refer to **Figure 3,** BTEX/MTBE Groundwater Analytical Map – October 19, 2010, for groundwater analytical data and **Figure 4,** Potentiometric Surface Map – October 19, 2010, for the potentiometric surface map (PSM) developed following the October 19, 2010 groundwater gauging event.

An additional groundwater sampling round is needed for use in the Tier 3 evaluation in order to gather additional CoC trending data to utilize in calculating a site specific degradation rate. A soil boring and sampling is also proposed for geotechnical and analytical sample to be used in the Tier 3 evaluation.

The previous Tier 2 Addendum findings are summarized as follows:

- The site has been delineated to Tier 1 Action Levels in soil and groundwater.
- Tier 2 fate & transport modeling for benzene, ethylbenzene and total xylenes was verified and the original Tier 2 SSTLs would still apply to the site.
- The Tier 2 Groundwater Ingestion SSTLs for benzene, ethylbenzene and total xylenes were not exceeded in any of the samples.
- The fate and transport of MTBE using a no decay solute transport model is overly conservative and does not reflect the fate and transport of MTBE from the source on-site to the nearest receptor. Therefore, a Tier 2 SSTL was not calculated.

Based on the Tier 2 Addendum findings, it will be necessary to further evaluate MTBE in the next phase of modeling for the Groundwater Ingestion Pathway in order to determine an SSTL that reflects actual site conditions. The Tier 3 Methodology Section below provides a detailed discussion of the proposed Tier 3 Plan.

3.0 SOIL BORING/ SOIL SAMPLING ACTIVITIES

It is proposed to conduct a soil sampling event in order to obtain geotechnical data and fraction organic carbon (FOC) data for use in the Tier 3 evaluation. One (1) soil boring will be completed on the site as indicated on **Figure 5,** Proposed Soil Sample Location Map. The soil boring will be located in the area west of MW-10 which is downgradient and outside of the source area. From the soil boring one Shelby Tube (approximately 12-14' from the saturated zone) for geotechnical analysis as well as two analytical samples (approximately 10-12' and 14-16' from the saturated zone) to be analyzed for fraction organic carbon (FOC) by ASTM Method D2974, total petroleum hydrocarbons (TPH) (C6-C12) US EPA Method 8015, and benzene, toluene, ethylbenzene and total xylenes (BTEX) and MTBE US EPA Method 8260B. The geotechnical samples will be submitted to the ATC Laboratory in Indianapolis, Indiana, for bulk dry density, moisture content, permeability, particle size analysis, Atterberg Limits, USCS Classification, specific gravity, porosity, volume air and volume water. Soil samples will be sent to Pace Analytical Laboratories (Pace) for analysis. The new soil data will be reported and used in the Tier 3 fate and transport modeling for MTBE Groundwater Ingestion Pathway.

Soil cross sections will be developed using historical soil boring data in order to better understand the site-wide soils lithology and potential CoC transport with respect to future remediation strategies. The cross sections will be prepared for two transects using the data available in soil boring logs, and groundwater elevation information. The first cross section A-A' will include soil borings data for MW-6, MW-2, MW-4, MW-11, MW-5 and MW-8. The second cross-section will be prepared for transect B-B' using soils data from MW-7, MW-10, MW-4 and MW-1.

4.0 GROUNDWATER SAMPLING PLAN

Two (2) quarterly groundwater sampling events are proposed for the site to provide an additional set of analytical data to be used in the Tier 3 evaluation, as well as a second set of analytical data to be used for validation of assumptions and SSTLs. For each of the groundwater sampling events, all 11 on and off site monitoring wells will be developed and sampled. The analytical samples plus a duplicate will be analyzed for BTEX and MTBE using U.S. Environmental Protection Agency (EPA) Method 8260B at Pace. The analytical results will be presented in the Tier 3 Evaluation Report.

As part of the Tier 3 activities, an additional PSM will be prepared for the site presenting the latest groundwater elevation data.

5.0 TIER 3 METHODOLOGY

In this Tier 3 evaluation analytical data from the proposed sampling events will be used in conjunction with historical data to allow calculation of site specific range of solute half-life values for MTBE as described in Appendix G of the 2005 BUSTR Technical Guidance Manual. The data are also intended to be used to validate BIOSCREEN fate and transport model predictions and for use in calculating a site specific target level for the MTBE Groundwater Ingestion Pathway.

Based on the concentration history and locations of existing wells, monitoring well MW-4 and MW-11 will serve as the source well for MTBE model simulations. Monitoring wells MW-5 and MW-8 appear to be located on the plume centerline and are appropriate point of demonstration (POD) wells for comparison to model simulations. The model assumptions and input parameters will remain similar to the Tier 2 Addendum modeling, with the addition of new site specific geotechnical and FOC data as proposed above. The hydraulic gradient will be determined following the proposed groundwater sampling event. As identified in the October 19, 2010 PSM, groundwater flow has appeared to be to the southwest across the site, which is consistent with the fate and transport modeling approach.

Groundwater historic data (excluding the IRA dates) and analytical results from the proposed groundwater sampling event will be used to calculate site specific solute half life value for MTBE according to the method described in Appendix G.6.2 of the 2005 BUSTR Technical Guidance Manual. The hydraulic conductivity values from the 2003 slug tests will be evaluated according to the method described in Appendix G.6.1 of the 2005 BUSTR Technical Guidance Manual in order to identify appropriate values that could be used in the fate and transport model calibration.

Once the half-life calculations and hydraulic conductivity evaluation described above have been completed, revised BIOSCREEN fate and transport modeling will be performed using the newly determined input parameters. The revised MTBE SSTL for the groundwater ingestion pathway will be derived from the fate and transport modeling activities. Tier 3 Evaluation report documenting the described activities will then be prepared and submitted to BUSTR.

5.1 Calibration using Solute Half-Life Estimates

For the Tier 3 modeling calibration phase, the solute half life will be manipulated based on site specific data according to the BUSTR 2005 Technical Guidance Manual G.6.2. In the Tier 2 evaluation, due to the site being in BUSTR 1999 Rules, a no decay solute transport scenario was required overestimating the dissolved MTBE concentrations that would migrate downgradient and to the nearest receptor.

Graphic plots using MTBE concentrations versus distance will be prepared to assess whether the contaminant plume is shrinking or stable. Data from groundwater wells MW-4, MW-5, MW-8, MW-10, and MW-11 will be included due to the fact that those monitoring wells are either located in the source area or along the centerline of the COC plume. Next the solute half-life will be estimated based on the concentration versus time regression analysis utilizing the first order of decay, in order to estimate the solute degradation rate (k). At least three (3) monitoring wells from the list above with the available analytical data (plus the proposed groundwater sampling event) for at least six (6) sampling events covering a span of three (3) years will be included. The solute degradation rate (k) estimates will be converted to values estimating the solute half-life. Then the allowable values of (t-half) will be determined bounded by the maximum and minimum values. The allowable k values will then be used to calibrate the BIOSCREEN fate and transport model.

5.2 Calibration using Hydraulic Conductivity Estimates

As part of the Tier 3 Evaluation, a hydraulic conductivity evaluation will be conducted in order to determine that the most appropriate hydraulic conductivity of the available data for the Tier 3 MTBE fate and transport BIOSCREEN model. The hydraulic conductivity evaluation will include the available slug test data found in the *Tier 2 Evaluation Report* Parsons Engineering, dated 23 June 2003. Slug tests performed on Feb. 19, 2003, in four (4) wells resulted in hydraulic conductivity values (cm/sec) as follows: MW-4 3.9×10^{-5}; MW-6 3.94×10^{-7}; MW-7 2.18×10^{-5}; MW-8 2.55×10^{-6}. In the Tier 2 evaluation, the most conservative maximum hydraulic conductivity value of 3.9 x 10-5 cm/sec from MW-4 was utilized. It is proposed to calibrate the model by adjusting the hydraulic conductivity (K) within the range outlined in Appendix G.6.1 of the TGM.

To determine the allowable values of (K) that may be used during model calibration, two (2) ranges must be determined. In the first range, the results from the slug test are used to determine the range of (K) values bounded by the maximum and minimum values of (K). In the second range, the geometric mean of (K) is calculated using the results of slug tests, then a range of (K) values is determined bounded by the limits of the mean plus or minus one order of magnitude. The allowable values of (K) that may be used to calibrate BIOSCREEN model for MTBE will be presented.

5.3 Tier 3 Schedule

If this plan is approved by BUSTR and the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB), the Tier 3 Evaluation Report will be prepared to develop a Tier 3 SSTL for MTBE. Prior to the Tier 3 evaluation, the proposed drilling activities and four soil borings will be completed. Soil samples with Shelby Tubes for geotechnical analysis from one boring, and soil samples will be obtained from an additional boring and analyses completed for FOC, TPH (C6-C12), and BTEX and MTBE. In addition, the existing 11 monitoring well network will be sampled prior to the Tier 3 evaluation to have an additional sample for the data set needed to determine the half life solute transport. Groundwater samples will be analyzed for BTEX and MTBE using U.S. Environmental Protection Agency (EPA) Method 8260B. The information mentioned above, which includes geotechnical soil data, analytical soil data, the new groundwater data, and cross-section figures, will be prepared within a Tier 3 Evaluation Report.

Additionally, the environmental covenant will be re-submitted for approval under separate cover. The environmental covenant executed for the site will restrict the site to commercial use only, to restrict future buildings to be built on slab only, and to prohibit potable wells for drinking water use in order to eliminate the Groundwater Ingestion Pathway and the Soil to Drinking Water Leaching Pathway.

An additional quarter of groundwater monitoring data will also be proposed following the Tier 3 evaluation to verify the MTBE concentrations are stable or decreasing and validate the model and calculated SSTLs. If the Tier 3 SSTL for MTBE is not exceeded, then no further action will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be warranted and assessed at that time.

5.4 Estimated Costs for Tier 3 Evaluation

In correspondence dated January 8, 2007, the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) approved costs associated with the Tier 3 Work Plan submitted with the *Tier 2 Addendum #2/Tier 3 Plan* dated December 12, 2006. Based on the revised plans and scope of work described above, ATC has included a revised estimated cost summary spreadsheet as Appendix A, The costs for each task are summarized below. ATC recommends forwarding a copy of this report to PUSTRCB with a request for pre-approval. ATC will initiate the proposed activities as soon as possible following BUSTR and PUSTRCB approval.

Task 1: Drilling/ Soil boring $5,516

- One Soil Boring for Shelby Tube and analytical samples
- Shelby Tube for geotechnical analysis and two analytical samples for FOC ASTM D2974; TPH (C6-C12 US Method EPA 8015); BTEX & MTBE U.S. EPA Method 8260B

Task 2: Two Quarterly Groundwater Sampling Events $5,033

- Sample existing 11 monitoring well network (1 round before Tier 3 evaluation/ 1 round following Tier 3 evaluation) MW-1 through MW-11 plus duplicate (BTEX & MTBE U.S. EPA Method 8260B)

Task 3: Groundwater Monitoring and Sampling Results Reporting $1,480

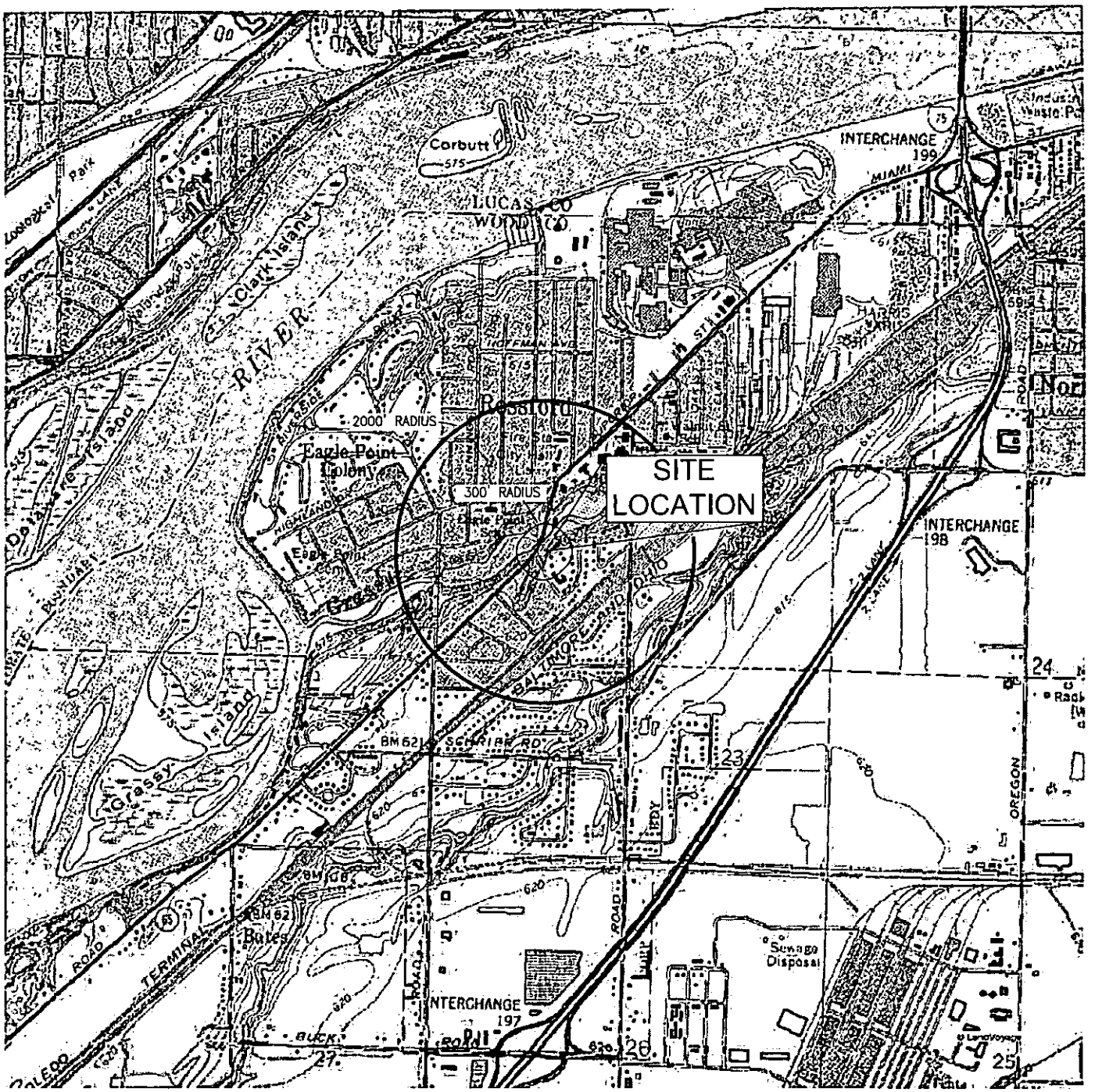
Task 4: Tier 3 Evaluation $6,242

- Complete regression analysis for half life solute transport, hydraulic conductivity evaluation, revise fate and transport modeling and calculate SSTL, prepare Tier 3 Evaluation Report, including soil cross sections

Refer to **Appendix A**. Supplemental Tier 3 Evaluation Cost Estimate, for a detail cost estimate breakout.

6.0 CONCLUSIONS

ATC recommends conducting a Tier 3 Evaluation to develop a new MTBE SSTL for the site that more closely matches actual site conditions using BIOSCREEN models. If the newly developed Tier 3 SSTL for MTBE is not exceeded, then no further action will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be assessed at that time.



2/2/11

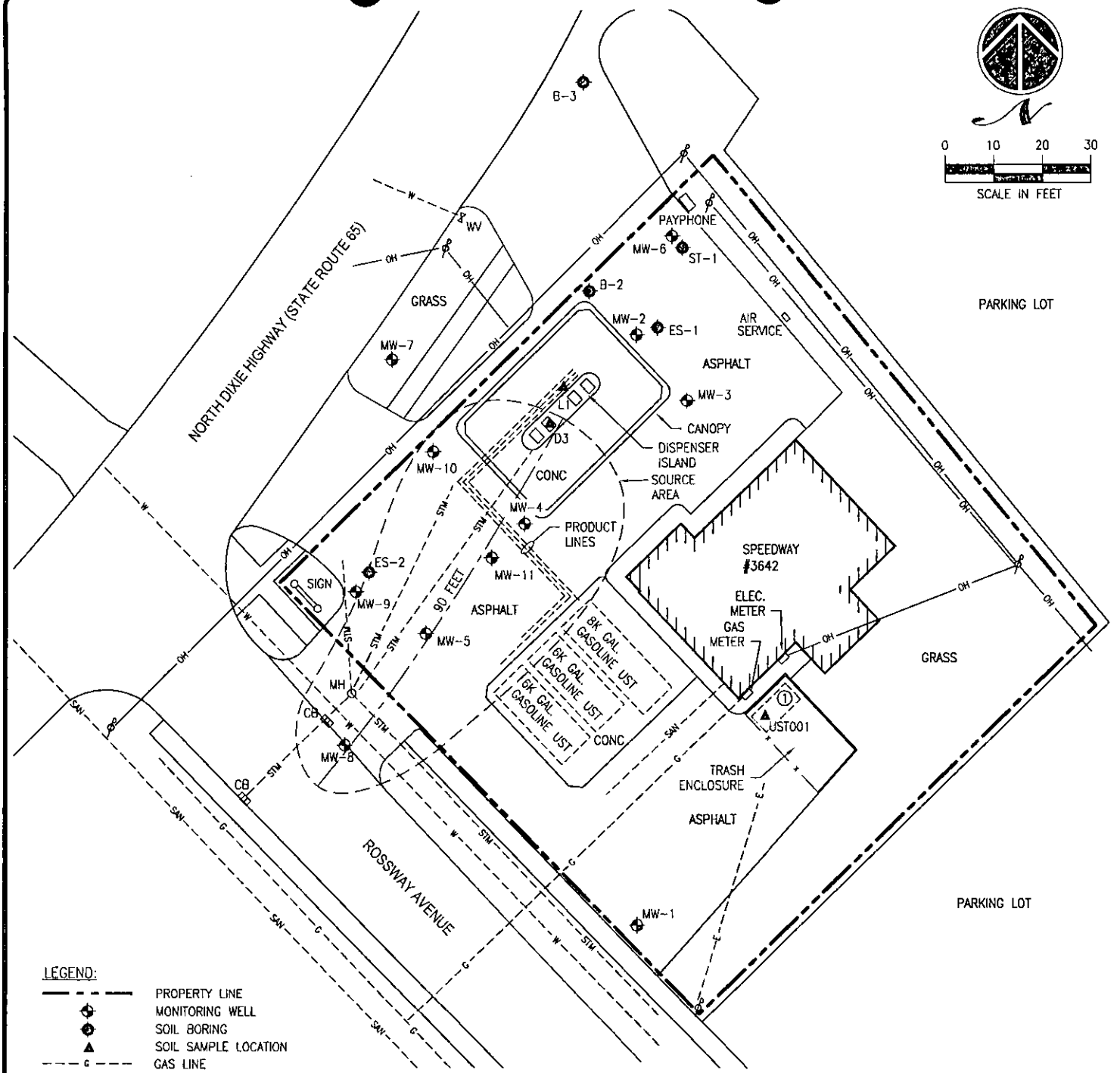
...Speedway3642-SLM.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: CEV	FIGURE 1

SITE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION
- G — GAS LINE
- SAN — SANITARY SEWER LINE
- STM — STORM SEWER LINE
- W — WATER LINE
- E — UNDERGROUND ELECTRIC LINE
- OH — OVERHEAD UTILITIES
- CB — CATCH BASIN
- MH — MANHOLE
- UTILITY POLE
- WV — WATER VALVE

FORMER SITE FEATURES:

① FORMER USED OIL UST

2/2/11

...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 2

SITE MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

CT NO.:
16.0557

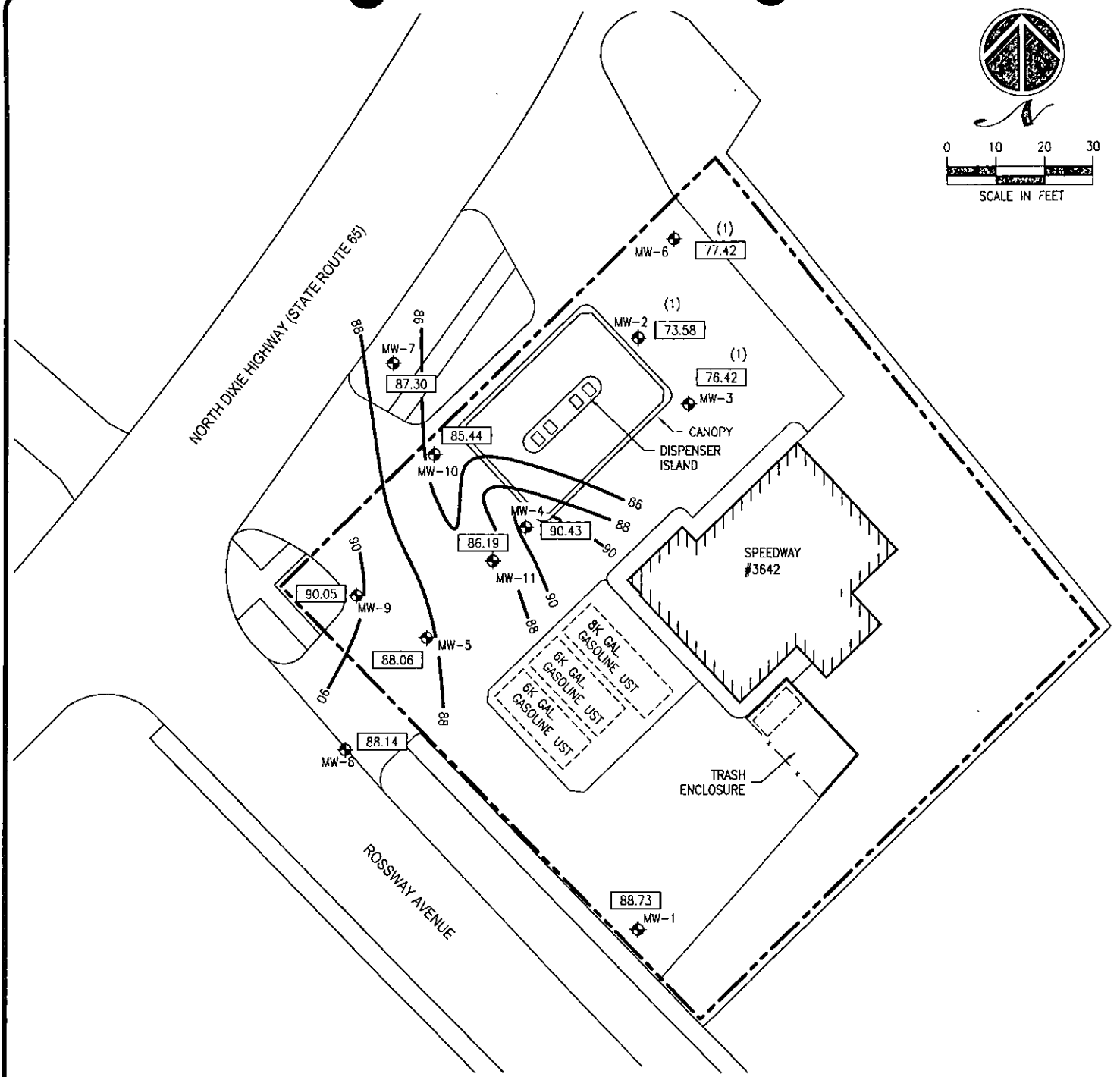
LE:
20'

RE 3

GROUNDWATER ANALYTICAL MAP
JAN 25, 2010/APR 28, 2010/JUL 20, 2010/OCT 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...Speedway3642-01.dwg 2/2/11



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- 89.29 — RELATIVE GROUNDWATER ELEVATION
- (1) — NOT USED TO CREATE CONTOURS
- 88 — EQUIPOTENTIAL CONTOUR LINE (2.0 FOOT CONTOUR INTERVAL) (DASHED WHERE INFERRED)

2/2/11

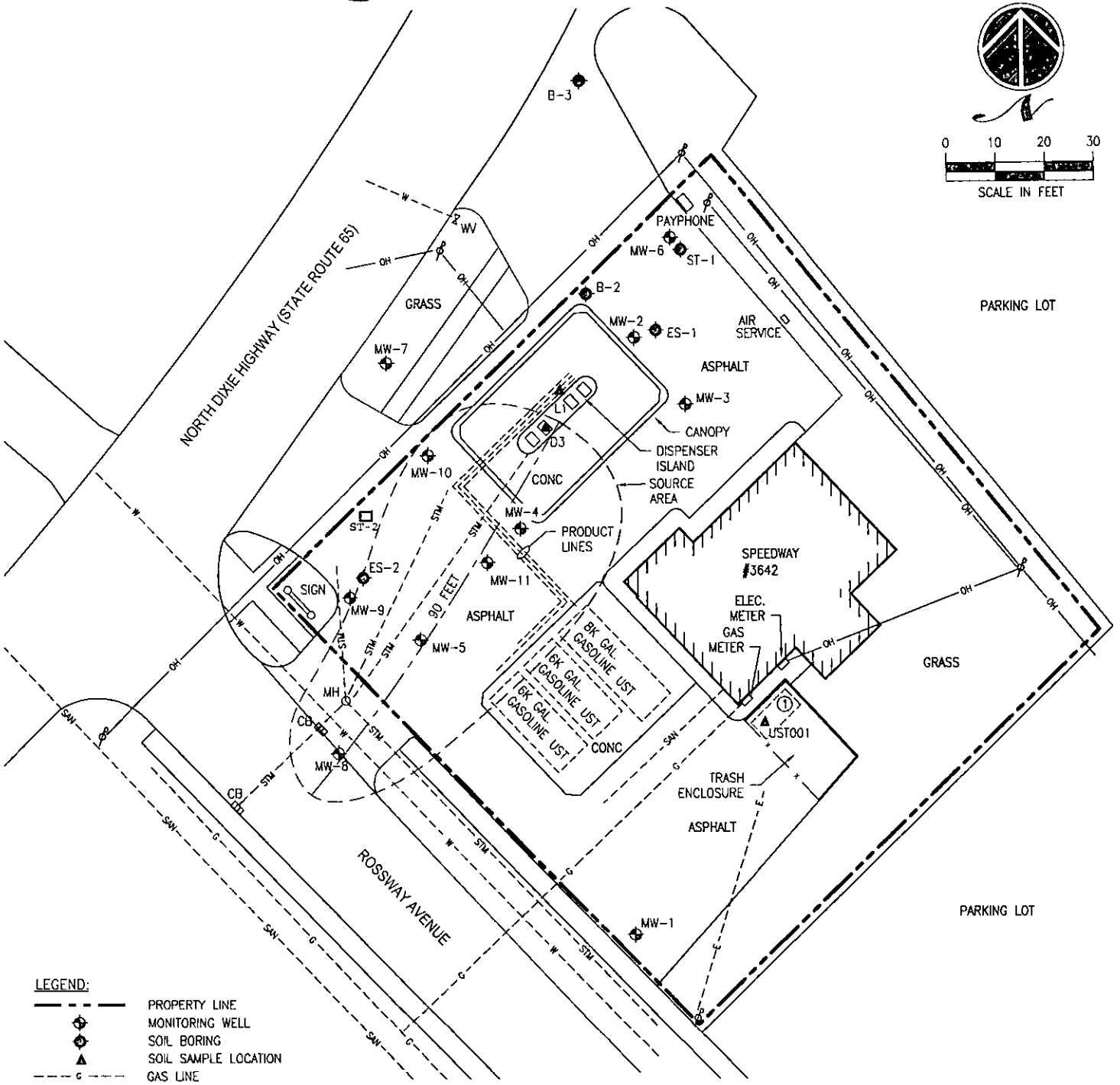
...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 08.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 4

POTENTIOMETRIC SURAFCE MAP
OCTOBER 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
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- SOIL BORING
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- G — GAS LINE
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- W — WATER LINE
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- CB — CATCH BASIN
- MH — MANHOLE
- UTILITY POLE
- WV — WATER VALVE

FORMER SITE FEATURES:

① FORMER USED OIL UST

2/2/11

...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 7/19/11	
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 5

PROPOSED SOIL SAMPLE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.012	< 0.008	< 0.011	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.012	< 0.008	< 0.011	< 0.028	< 0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

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Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	01/25/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	04/28/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	07/20/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	0.500
								TRIP BLANK	10/19/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Remediation System Influent Water											**NA**	**NA**	**NA**	**NA**	**NA**
INFLUENT								INFLUENT	10/07/2009	14:00	< 0.230	< 0.360	< 0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	< 0.230	< 0.360	< 0.400	< 1.100	51.400
								INFLUENT	12/21/2009	15:00	< 0.390	< 0.420	< 0.410	< 1.300	44.600
Action Levels - Remediation System Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
EFFLUENT								EFFLUENT	10/07/2009	14:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	11/05/2009	18:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	12/21/2009	15:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								EFFLUENT	01/04/2010	18:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	100.8	89.29	11.51			MW-01	04/28/2010	14:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	100.8	88.73	12.07										
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										
	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.19	73.36	23.83			MW-02	04/28/2010	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.19	73.58	23.61										
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	98.44	76.31	22.13			MW-03	04/28/2010	15:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	98.44	76.42	22.02										
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	**2420.000**
	04/28/2010	00:00	97.98	90.67	7.31			MW-04	04/28/2010	15:30	1900.000	< 20.800	1250.000	5430.000	**2620.000**
	07/20/2010	00:00	97.98	91.92	6.06			MW-04	07/20/2010	14:20	2080.000	53.100	1750.000	7590.000	**2360.000**
	10/19/2010	00:00	97.98	90.43	7.55			MW-04	10/19/2010	12:10	2160.000	49.000	1390.000	5960.000	**2440.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	< 1.900	< 2.100	< 2.100	< 6.300	**666.000**
	04/28/2010	00:00	96.47	87.95	8.52			MW-05	04/28/2010	15:50	< 1.900	< 2.100	< 2.100	< 6.300	**592.000**
	07/20/2010	00:00	96.47	88	8.47			MW-05	07/20/2010	14:30	< 1.900	< 2.100	< 2.100	< 6.300	**623.000**
	10/19/2010	00:00	96.47	88.06	8.41			MW-05	10/19/2010	12:30	< 1.900	< 2.100	< 2.100	< 6.300	**626.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										
	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	96.7	78.13	18.57			MW-06	04/28/2010	15:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	96.7	77.42	19.28										
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.09	90.33	6.76			MW-09	04/28/2010	14:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.09	90.05	7.04										
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	**128.000**
	04/28/2010	00:00	96.52	85.71	10.81			MW-10	04/28/2010	14:40	94.500	< 0.420	6.100	< 1.300	**70.600**
	07/20/2010	00:00	96.52	84.72	11.8			MW-10	07/20/2010	14:40	107.000	0.830	4.300	1.500	**123.000**
	10/19/2010	00:00	96.52	85.44	11.08			MW-10	10/19/2010	12:00	91.500	1.100	< 0.410	< 1.300	**123.000**
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	**1660.000**
	04/28/2010	00:00	96.63	88.11	8.52			MW-11	04/28/2010	15:40	876.000	94.800	73.500	523.000	**4180.000**
	07/20/2010	00:00	96.63	88.06	8.57			MW-11	07/20/2010	14:50	1400.000	164.000	154.000	989.000	**5490.000**
	10/19/2010	00:00	96.63	86.19	10.44			MW-11	10/19/2010	12:20	927.000	63.500	67.200	603.000	**4610.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	04/28/2010	00:00	95.7	88.18	7.52			MW-07	04/28/2010	14:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	95.7	87.3	8.4										
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	< 0.390	< 0.420	< 0.410	< 1.300	4.000
	04/28/2010	00:00	98.78	89.43	9.35			MW-08	04/28/2010	14:20	< 0.390	< 0.420	< 0.410	< 1.300	2.800
	10/19/2010	00:00	98.78	88.14	10.64			MW-08	10/19/2010	11:50	< 0.390	< 0.420	< 0.410	< 1.300	6.800
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**NA**	**NA**	**NA**	**NA**	**NA**
MID CARBON								MID CARBON	10/07/2009	14:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	11/05/2009	18:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	12/21/2009	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Air Stripper Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	< 0.230	< 0.360	< 0.400	< 1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	< 0.230	< 0.360	< 0.400	< 1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	< 0.390	< 0.420	< 0.410	< 1.300	1.300

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	NA	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,I)perylene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	NA	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	NA	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	NA	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	NA	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	NA	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	NA	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A

TIER 3 EVALUATION COST ESTIMATE

Supplemental Tier 3 Evaluation Cost Estimate

Speedway # 3642 Rossford

Summary of work: **Supplemental T3 Evaluation:** Complete one soil borings for Shelby Tube and two samples for FOC/TPH (C6-12)/BTEX/MTBE Perform 2 groundwater sampling events (11 wells for BTEX/MTBE) Implement Tier 3 Work Plan: complete regression analysis for solute half life; hydraulic conductivity evaluation; fate and transport modeling, calculate SSTLs, and prepare Tier 3 report incl. sampling results and soil cross sections. The scope of		PROJECT TOTALS		TASK 1 **Drilling/OUPS notification/HASP Update; Soil Borings**		TASK 2 **Well Dvlpt. Groundwater Sampling - 2 events/11 wells**		TASK 3 **Groundwater Monitoring Results Reporting**		TASK 4 **Tier 3 Evaluation**	
LABOR	**RATE**	Hrs	Amount			Hrs	Amount	Hrs	Amount	Hrs	Amount
Principal	$90	0	$0		$0		$0		$0		$0
Senior Project Manager	$90	0	$0		$0		$0		$0		$0
Project Manager	$82	21	$1,722	6	$492	4	$328	4	$328	7	$574
Engineer/Scientist (Hydro)	$75	63	$4,725	3	$225		$0		$0	60	$4,500
Geologist	$65	41	$2,665	16	$1,040	1	$65	14	$910	10	$650
Junior Geologist	$60	2	$120		$0		$0		$0	2	$120
Project Manager Assistant	$55	5	$275	1	$55	2	$110		$0	2	$110
Technician	$50	29	$1,450		$0	28	$1,400	1	$50		$0
Drafting	$48	10	$480		$0		$0	4	$192	6	$288
TOTAL LABOR		171	11437	26	$1,812	35	$1,903		$1,480	87	$6,242
TOTAL SUBCONTRACTORS			$2,600		$2,400		$200		$0		$0
TOTAL LABORATORY			$2,779		$931		$1,848		$0		$0
TOTAL EXPENSES			$1,455		$373		$1,082		$0		$0
TOTAL ESTIMATED COSTS			**$18,271**		$5,516		$5,033		$1,480		$6,242

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 **Drilling/OUPS notification/HASP Update; Soil Borings**		TASK 2 **Well Dvlpt. Groundwater Sampling - 2 events/11 wells**		TASK 3 **Groundwater Monitoring Results Reporting**		TASK 4 **Tier 3 Evaluation**	
SUBCONTRACTORS	**RATE**	Units	Amount			Units	Amount	Units	Amount	Units	Amount
Drum Removal	$100	4	$400	2	$200	2	$200		$0		$0
Drilling Subcontractor (with Vacuum Digging)		1	$2,200	1	$2,200		$0		$0		$0
			$0		$0		$0		$0		$0
			$0		$0		$0		$0		$0
TOTAL SUBCONTRACTORS			**$2,600**		**$2,400**		**$200**		**$0**		**$0**
LABORATORY											
Water - BTEX & MTBE 8260B	$77	25	$1,925	1	$77	24	$1,848		$0		$0
Shelby Tube Analysis	$450	1	$450	1	$450		$0		$0		$0
Soil - TPH C6-C12 US EPA 8015	$50	2	$100	2	$100		$0		$0		$0
Soil - FOC ASTM D2974	$75	2	$150	2	$150		$0		$0		$0
Soil - BTEX &MTBE US EPA 8260B	$77	2	$154	2	$154		$0		$0		$0
TOTAL LABORATORY COSTS			**$2,779**		**$931**		**$1,848**		**$0**		**$0**
EXPENSES											
Mileage	$0.45	750	$338	250	$113	500	$225		$0	0	$0
Lodging	$75.00	0	$0		$0		$0		$0	0	$0
Meals	$25.00	1	$25	1	$25		$0		$0	0	$0
Health & Safety Kit	$10.00	6	$60	1	$10	5	$50		$0	0	$0
Misc. Expenses (gloves, Shipping, Etc.;	$50.00	6	$300	1	$50	5	$250		$0	0	$0
PID	$65.00	1	$65	1	$65		$0		$0	0	$0
Water Level Ind	$25.00	1	$25		$0	1	$25		$0	0	$0
Interface probe	$50.00	6	$300	1	$50	5	$250		$0	0	$0
pH meter/conductivity meter	$10.00		$0		$0		$0		$0	0	$0
GPS Unit	$75.00		$0		$0		$0		$0	0	$0
Data Logger	$125.00		$0		$0		$0		$0	0	$0
Survey Equipment	$100.00		$0		$0		$0		$0	0	$0
Disposable Bailers	$8.00	24	$192		$0	24	$192		$0	0	$0
Rope	$10.00	4	$40	2	$20	2	$20		$0	0	$0
Digital Camera	$10.00	2	$20	1	$10	1	$10		$0	0	$0
Drum	$30.00	3	$90	1	$30	2	$60		$0	0	$0
TOTAL EXPENSES			**$1,455**		$373		$1,082		$0		$0

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2011 FEB 25 PM 1:55

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7967 9459 0592

February 22, 2011

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (3rd / Final Event)**
Speedway Store#3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Groundwater Sampling Report – 3rd Event / 4th (Final Event)* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report summarizes the groundwater monitoring and sampling actives conducted at the site on July 20, 2010 and October 19, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* dated March 31, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted pre-approval for the proposed monitoring plan in a letter dated June 26, 2009. The activities were conducted in accordance with the Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (1999).

On July 20, 2010, depth to fluid measurements and groundwater samples were collected from monitoring wells MW-04, MW-05, MW-10, and MW-11. On October 19, 2010, depth to fluid measurements were collected from all wells and groundwater samples were collected from monitoring wells MW-04, MW-05, MW-08, MW-10, and MW-11.

Laboratory analytical results for groundwater samples collected on July 20, 2010 and October 19, 2010 indicate dissolved methyl tertiary butyl ether (MTBE) concentrations collected MW-4, MW-5, MW-10, and MW-11 continues to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

Based on dissolved MTBE concentrations collected from site monitoring wells which exceed Tier 2 SSTLs, Speedway will prepare a remedial action plan for conducting either a Tier 3 Evaluation Work Plan or active corrective actions. This completes the final groundwater sampling event.

If you have any questions or concerns, please contact me at (937) 863-6513.

Sincerely,
SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Doug Darrah – Senior Project Manager (ATC)
Colleen Varga – Project Geologist (ATC)
Reimbursement File #3642– w/encl.
Remediation File #3642– w/encl.

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AUG 20 2010
STATE FIRE MARSHAL

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7989 5620 4670

August 18, 2010

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (2nd Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Groundwater Sampling Report – 2nd Event* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report summarizes the groundwater monitoring and sampling actives conducted at the site on April 28, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* dated March 31, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted pre-approval for the proposed monitoring plan in a letter dated June 26, 2009. The activities were conducted in accordance with the Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

Depth to fluid measurements and groundwater samples were collected from MW-1 through MW-11 on April 28, 2010.

Laboratory analytical results for groundwater samples collected on April 28, 2010 indicate dissolved MTBE concentrations in MW-4, MW-5, MW-10, and MW-11 continue to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

This completes the second of four quarterly groundwater sampling events. If you have any questions or concerns, please contact me at (937) 863-6513.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Eric M. Swaisgood
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Colleen Varga – Staff Geologist (ATC)
Reimbursement File #3642– w/encl.
Remediation File #3642– w/encl.

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX STANDARD OVERNIGHT – 7985 0302 2500

March 25, 2010

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **IRA Completion Report**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Interim Response Action (IRA) Completion Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes the results of the three-months of dual-phase recovery and a complete groundwater sampling event conducted at the site in accordance with the Bureau of Underground Storage Tank Regulations (BUSTR) approved *IRA Notification Form* dated March 2009.

On September 30, 2009, a Speedway SuperAmerica LLC (SSA) owned mobile treatment unit was mobilized to the site and dual-phase recovery was initiated from the newly installed recovery well network. Details pertaining to the installation of the recovery wells, sub-grading recovery piping, electrical service installation, discharge permitting, and system start-up were summarized in the previously submitted *IRA Implementation Report* dated November 17, 2009. Dual-phase recovery was conducted at the site for approximately three months. While liquid recovery rates were relatively low with only 5,129 gallons of groundwater recovered for the duration of the IRA, the groundwater table demonstrated significant drawdown with an effective radius ranging from 20 to 60 feet. Vapor recovery at the site was more productive with an estimated 7.26 pounds of benzene, toluene, ethylbenzene, and xylenes (BTEX) and 260 pounds of total petroleum hydrocarbons (TPH) recovered over three months.

Results of the first quarterly sampling event indicated that MTBE concentrations in site wells generally showed a significant decrease when compared to the previous sampling event, assumed to be a result of the recovery efforts. As per BUSTR's approval, three additional quarterly groundwater sampling events are scheduled to determine if MTBE will demonstrate a decreasing trend. If a decreasing trend can be shown, then a Tier 3 Work Plan will be prepared outlining a strategy to develop a site specific degradation rate for MTBE which will be used to develop a new site specific target level for MTBE using the BIOSCREEN fate and transport model.

2010 MAR 25 PM 12:01
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If you have any questions or concerns, please contact me at (937) 863-7647.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Jennifer Schoenlein
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642 – w/encl.
Reimbursement File #3642 – w/encl

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2010 MAR 25 PM 12:01

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7930 2779 9660

November 17, 2009

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find the attached *Interim Response Action (IRA) Implementation Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced site. This report summarizes the activities conducted to implement the approved IRA which included the installation of the recovery well network, sub-grade remediation piping, mobilization and start-up of a dual phase recovery (liquid and vapor) mobile treatment unit (MTU), system installation, discharge permitting activities, dedicated electrical service installation, baseline (pre-system) site measurements, and initial monitoring activities. The *IRA Notification* dated March 31, 2009 was approved by the Bureau of Underground Storage Tank Regulation (BUSTR) in a letter dated April 15, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted cost pre-approval for the IRA activities on April 24, 2009.

On October 1, 2009, a high-vacuum MTU owned by Speedway SuperAmerica LLC (SSA) was connected to the recovery well network (MW-5 and MW-11) via newly installed sub-grade piping and junction vault. The MTU will be operated for a three-month period during which bi-monthly site visits will be conducted to maintain the system, collect monthly discharge samples, and to monitor system effectiveness with depth to fluid and vacuum measurements from site wells. The system operation, monitoring, and maintenance (OM&M) activities will be summarized in the IRA Completion Report to be prepared and submitted within 60 days from the completion of the IRA.

At the completion of the three months of liquid recovery via high-vacuum, a year of quarterly groundwater sampling will be conducted to determine if methyl tertiary butyl ether (MTBE) concentrations will decrease over time. If a consistent decrease is observed, a Tier 3 Evaluation work plan will be prepared at the completion of the fourth quarterly sampling event to outline a strategy to calculate a site specific degradation rate and revised site specific target level (SSTL) for MTBE in groundwater.

If you have any questions, or require additional information, please do not hesitate to contact me at (937) 863-6260.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Michael S. Bracey

Michael Bracey
Manager, Environmental Remediation

2009 NOV 20 PM 3:58

RECEIVED
SFM/BUSTR

cc: Cindy Duann – Claims Supervisor - PUSTRCB
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Equal Opportunity Employer

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.ohio.gov

Ted Strickland
Governor

Kimberly A. Zurz
Director

April 15, 2009

ADAM CAMPBELL
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: INTERIM RESPONSE ACTION

Dear Mr. Campbell:

The Bureau of Underground Storage Tank Regulations (BUSTR) received your letter dated March 31, 2009 notifying BUSTR that you plan to perform Interim Response Actions at the site listed above.

Based on the information submitted, BUSTR approves the activities outlined in your letter. Please perform all IRA activities and submit all reports in accordance with OAC 1301:7-9-13, effective March 1999.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm/bust *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 614-728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Cindy Duann - PUSTRCB
Mark Samblanet - ATC
Travis Bukach - ATC

Speedway SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2009 APR -3 AM 11: 18
STATE FIRE MARSHAL

CERTIFIED MAIL – 7007 0220 0000 8742 9784

March 31, 2009

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **IRA Notification Report**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Interim Response Action Notification Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. On November 9, 2007, Speedway SuperAmerica LLC (SSA) submitted a *Monitoring Plan Completion Report* to the Bureau of Underground Storage Tank Regulations (BUSTR) which summarized the results of groundwater monitoring and sampling conducted in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006). Based on the fact that dissolved methyl tertiary butyl ether (MTBE) concentrations increased over time, SSA requested BUSTR approval to proceed with a Remedial Action Plan (RAP). No response has been received to date. However, SSA has re-evaluated the remediation strategy for the site and determined that Interim Response Action (IRA) activities are a more practical alternative than the previously requested RAP.

To decrease dissolved MTBE concentrations onsite, ATC proposes to conduct an IRA consisting of three months liquid recovery via a rented high-vacuum dual-phase recovery mobile treatment unit (MTU). Monitoring well MW-5 will be converted to a two-inch recovery well and an additional recovery well will be installed southwest of MW-4 to avoid active product lines. Depth to fluid measurements, well development, and an initial groundwater sampling event will be conducted for all wells prior to implementing the recovery activities in order to obtain baseline readings. Depth to fluid measurements and vacuum response readings will then be collected on a monthly basis from surrounding wells to document the radius of influence due to high-vacuum recovery at the site.

Quarterly groundwater sampling will be implemented upon completion of the three month liquid recovery period to evaluate the effectiveness. Four quarters of groundwater monitoring will be conducted from all existing wells. Samples will be submitted to a SSA approved laboratory and analyzed for BTEX and MTBE by U.S EPA Method 8260B. Results of the well development, baseline sampling, three months liquid recovery, and initial groundwater sampling event will be summarized in an IRA Implementation Report. Quarterly update reports will be completed after each of the remaining groundwater sampling event.

If groundwater analytical results indicate dissolved MTBE concentrations have stabilized or show a decreasing trend, a new Tier 3 Work Plan will be proposed to calibrate the Fate and Transport Model (BIOSCREEN) for MTBE. If MTBE in groundwater continues to demonstrate an increasing trend, data obtained from the IRA (i.e.: dual-phase radius of influence, pumping rate, etc.) will be used to develop a Remedial Action Plan (RAP) to consist of prolonged liquid recovery.

Based on the fact that the IRA consists of groundwater monitoring events after the dual-phase extraction, SSA requests written BUSTR and Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) pre-approval for the above mentioned activities. These activities will not be initiated until SSA receives written approval from both BUSTR and PUSTRCB.

If you have any questions or concerns, please contact me at (937) 863-7391.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Adam M. Campbell
Environmental Representative

cc: Cindy Duann – PUSTRCB (**Pre-Approval Requested**) – certified mail # 7007 0220 0000 8741 5807
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Nathan Saraceno – Project Geologist (ATC)
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2007 NOV 13 PM 1:17

FEDEX STANDARD OVERNIGHT – 7925 9605 2784

9 November 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **MONTORING PLAN COMPLETION**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Monitoring Plan Completion Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

Results of the three quarters of groundwater sampling conducted in accordance with the December 2006 Groundwater Monitoring Plan indicate the following:

- Groundwater analytical results obtained from monitoring wells MW-1, MW-2, MW-3, MW-6, MW-7, and MW-9 continue to demonstrate benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) concentrations below laboratory method detection limits. Groundwater collected from MW-8 on 2 October 2007 indicated a minor detection (0.0017 ppm) for MTBE.
- MTBE concentrations detected in MW-4 and MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs). Additionally, MTBE concentrations have increased in excess of the Tier 2 SSTL in monitoring well MW-10.
- Measurable free product (0.03 feet) was observed in monitoring well MW-4 on 7 June 2007; subsequently, MW-4 was not sampled during the second groundwater sampling event. Furthermore, analytical results obtained from samples collected from MW-4 on 27 July 2007 and 2 October 2007 demonstrate stable to slightly increasing concentrations for BTEX and MTBE constituents.
- BTEX and MTBE concentrations have stabilized or have generally increased over time in monitoring wells MW-4, MW-5, and MW-10.

The groundwater monitoring plan was conducted to demonstrate that MTBE concentrations have stabilized or are decreasing over-time; however, results of the additional sampling has demonstrated that concentrations of BTEX and MTBE are increasing and possibly migrating from the source area as evidenced by the increase in chemicals of concern concentrations in MW-10. Consequently, a Tier Evaluation cannot be conducted to address the MTBE impact at the site because a site specific degradation rate for MTBE cannot be calculated due to the increasing concentrations including measurable free product observed in MW-4 (7 June 2007). **Based on these findings, Speedway SuperAmerica LLC (SSA) respectfully requests that Bureau of Underground Storage Tank Regulations (BUSTR) provide written approval to proceed with the preparation of a Remedial Action Plan (RAP) to address the MTBE impact in groundwater.**

On 12 December 2006, a draft of the proposed environmental covenant for the site was submitted to BUSTR as an attachment to the *Tier 2 Addendum #2 / Tier 3 Plan* dated December 2006. To date, no response has been received from BUSTR to indicate that the draft language has been approved. A copy of the draft covenant has been included in Appendix C of the enclosed report for BUSTR review and approval.

If you have any questions or concerns, please contact me at (937) 863-7862.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway SUPERAMERICA

RECEIVED
2007 NOV -5 PM 12:27
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL – 7007 1490 0001 9686 8512

30 October 2007

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Free Product Recovery**
Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Krueger:

Enclosed is one copy of the *Free Product Recovery Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report covers Free Product Recovery (FPR) activities conducted in July, August and October 2007 by ATC. The free product recovery was conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 2005 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

Monitoring well MW-4 was monitored for free product on 27 July 2007, and 14 August 2007, and during a groundwater sampling event conducted on 2 October 2007. No measurable phase separated hydrocarbons (PSH) were observed. Since the initiation of PSH recovery events onsite (27 June 2007), approximately 0.01 gallons of PSH have been recovered on-site.

This report documents the third consecutive month that free product (equal to or greater than 0.02 feet) has not been present onsite. Subsequently, free product recovery activities have been terminated at the site. If you have any questions or concerns, please do not hesitate to call me at 937-863-7862.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

Attachment
cc: Mark A. Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Kathryn Price – Staff Geologist (ATC)
Remediation File #3642
Reimbursement File #3642

Speedway
SUPERAMERICA

RECEIVED
2007 AUG 20 PM 2:18
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL – 7000 0520 0012 0647 2613

15 August 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (2nd Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on June 7, 2007, in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

On June 7, 2007, depth to fluid measurements were collected from monitoring wells MW-1 through MW-10. Groundwater samples were submitted to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by U.S. EPA Method 8260B. Monitoring well MW-4 was not sampled due to the presence of measurable free product within the well. The groundwater sampling methodologies and results are detailed in the attached report.

This completes the second of four quarterly groundwater sampling events outlined in the previously submitted Tier 3 Monitoring Plan. The next sampling event is scheduled for August 2007. Monthly free product recovery activities are being conducted at the site (MW-4). These activities are being summarized in separate monthly reports.

If you have any questions or concerns, please contact me at (937) 863-7862.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Kathryn Price – Staff Scientist (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

RECEIVED
2007 JUN 25 PM 12: 34
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL – 7000 0520 0012 4645 3436

21 June 2007

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Free Product Recovery (June 2007)**
Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Krueger:

Enclosed is one copy of the *Free Product Recovery / 20-Day Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report covers the initial Free Product Recovery activities conducted at the site by ATC since the discovery of free product in MW-4 on 7 June 2007. Free product recovery activities are being conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 2005 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

On 7 June 2007, measurable free product (0.03 feet) was observed in monitoring well MW-4 during a quarterly groundwater sampling event conducted as part of the approved Tier 3 Work Plan. Approximately 0.01 gallons of phase separated hydrocarbons (PSH) were recovered from MW-4 via hand bailing. Speedway SuperAmerica LLC (SSA) does not believe that a new release has occurred since the product appeared to be a dark amber and weathered, no recent alarms from the Veeder Root system have been noted at the site to indicate a leak, MW-4 has been historically the most impacted well onsite and PSH sheens (not measurable) have been observed during routine sampling events in the past.

On 14 June 2007, an ATC technician returned to the site to conduct free product recovery activities. Monitoring well MW-4 was gauged with an oil/water interface; no measurable free product was identified. Approximately two gallons of groundwater was hand-bailed from MW-4 and no PSH was observed in the purge water.

SSA plans to continue free product recovery activities on a monthly basis until no measurable PSH is observed at the site for three consecutive months. Monthly free product recovery reports will be submitted to your office. If you have any questions or concerns, please do not hesitate to call me at 937-863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith Hughes
Advanced Environmental Representative

Attachment
cc: Mark A. Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2007 APR 10 PM 12:30
STATE FIRE MARSHAL

***CERTIFIED MAIL* – 7000 0520 0012 4644 1785**

5 April 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (1st Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on February 21, 2007, in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

Prior to initiating the groundwater monitoring plan, on 16 February 2007 the monitoring wells were redeveloped. On February 21, 2007, depth to fluid measurements were collected from monitoring wells MW-2 through MW-6 and MW-8 through MW-10. Monitoring wells MW-1 and MW-7 were inaccessible due to heavy snow and ice accumulation. Groundwater samples collected were submitted to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by U.S. EPA Method 8260B. The groundwater sampling methodologies and results are detailed in the attached report.

This completes the first of four quarterly groundwater sampling events outlined in the previously submitted Tier 3 Monitoring Plan. The next sampling event is scheduled for June 2007.

If you have any questions or concerns, please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Kathryn Price – Staff Scientist (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2006 DEC 18
STATE FIRE MARSHAL

FEDEX STANDARD OVERNIGHT – 7906 2836 6226

12 December 2006

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Tier 2 Addendum #2/Tier 3 Plan**
Speedway SuperAmerica #3642
939 East River Road (Dixie Highway)
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find the attached *Tier 2 Addendum #2/Tier 3 Plan* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced site. This report was written to provide information requested by the Bureau of Underground Storage Tank Regulations (BUSTR) in their *Additional Information Response* letter dated 13 September 2006.

The results of the Tier 2 Addendum #2 are summarized as follows:

- The site has been delineated to Tier 1 action levels in both soil and groundwater.
- Based on the re-evaluation of Tier 2 fate and transport modeling and the re-development of site-specific target levels (SSTLs) for benzene, ethylbenzene, and total xylenes using a horizontal hydraulic gradient of 0.030 feet per foot and a default total organic carbon value of 0.001 per BUSTR's request, the point-of-demonstration (POD) well concentrations verify the fate and transport of each of these constituents and it was demonstrated that the original Tier 2 SSTLs would still apply to the site.
- The Tier 2 Groundwater Ingestion SSTLs for benzene, ethylbenzene, and total xylenes were not exceeded in any of the samples.
- The fate and transport of methyl tertiary butyl ether (MTBE) using a no decay solute transport model is overly conservative and does not reflect the historical analytical data obtained at the site.

It will be necessary further evaluate MTBE associated with the Groundwater Ingestion Pathway in terms of a Tier 3 Evaluation. A Tier 3 Evaluation is deemed the appropriate corrective action since a "no decay" scenario is currently used to evaluate the fate and transport of MTBE in groundwater to the nearest point-of-exposure (POE). The Tier 3 Evaluation will be performed to determine whether MTBE will migrate to the nearest receptor at concentrations exceeding the Tier 1 action level using fate and transport of MTBE with first order decay based on the Domenico analytical solute transport.

To complete a Tier 3 Evaluation of the site, MTBE concentrations in groundwater from the source well and downgradient wells from several groundwater monitoring events are used to statistically derive a site-specific solute half-life for MTBE, which will be used to re-evaluate the fate and transport of MTBE to the nearest receptor and to obtain a Tier 3 SSTL for MTBE. If this plan is approved by BUSTR and the

Mr. Rick Krueger
Tier 2 Addendum #2/Tier 3 Plan
Release #87000087-N00002
12 December 2006

Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB), the existing monitoring well network will be sampled on a quarterly basis for one year. The information will be used to develop the Tier 3 Evaluation Report. If the Tier 3 SSTL for MTBE is not exceeded, then no further action (NFA) will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be warranted.

Additionally, an environmental covenant will be executed for the site to restrict the site to commercial use only, to restrict basements, and to prohibit potable wells for drinking water use in order to eliminate the Groundwater Ingestion Pathway and the Soil to Drinking Water Leaching Pathway.

If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith A Hughes
Advanced Environmental Representative

KH/

cc: Cindy Duann – PUSTRCB Environmental Claims Supervisor
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

September 13, 2006

KEITH HUGHES
ADVANCED ENVIRONMENTAL REP.
SPEEDWAY SUPERAMERICA, LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 PETROLEUM RELEASE
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Hughes:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed our file for the site/release listed above, including your Tier 2 Addendum Report dated May 1, 2006. Based on our review, BUSTR requests the following:

1. The Tier 2 Addendum Report uses BIOSCREEN to evaluate the potential migration of benzene.
   - Please explain why 57.3 feet/year was used as the seepage velocity.
   - Provide additional information regarding the hydraulic gradient calculation. Based on several calculations using historical data, it appears that a better estimate of the hydraulic gradient in the vicinity of MW-4, MW-5, MW-7, MW-8, MW-9 and MW-10 would be approximately 0.03 feet/foot.
   - The fraction organic carbon (FOC) value used (0.010 g/g) does not agree with any of the data presented in Table 2. Please explain. In addition, all of the four soil samples tested for total organic carbon contained nearly identical ash contents and moisture contents, indicating that none of these four samples were collected below the groundwater table. Thus, the lab results should not be used in the BIOSCREEN model.

2. The Tier 2 report also uses the BIOSCREEN model to evaluate the potential migration of MTBE.
   - It appears that MW-5 should be considered a down-gradient well vis-à-vis MW-4 (rather than a side-gradient well within the source area). This conclusion is based on an observation that the MTBE concentrations at MW-5 show a slightly increasing trend since April of 2002, and that the groundwater flow direction has had a vector in that direction.
   - Because the model predicts that MTBE will reach the POE, a Tier 3, RAP or IRA are necessary to address MTBE in groundwater.

3. The Tier 2 report requests BUSTR approval to perform additional groundwater monitoring. BUSTR agrees that additional groundwater monitoring will be needed. However, please revise the BIOSCREEN model based on the comments listed above and then submit a revised Monitoring Plan. Also, please note that future groundwater monitoring activities should include all 10 of the monitoring wells, due to the relatively complex groundwater elevations and flow directions.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2006 MAY -4 PM 3:56
STATE FIRE MARSHAL

FEDEX 2ND DAY – 7927 2991 6995

1 May 2006

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica LLC #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Tier 2 Addendum Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. The report has been prepared to present the results of the additional assessment activities conducted in January 2006, to re-evaluate Site Specific Target Levels (SSTLs) for chemicals of concern in soil and groundwater which exceed Tier 1 Action Levels, and to present the results of the Groundwater Monitoring Plan conducted at the site.

The following summarizes the conclusions of the Tier 2 Addendum:

- Two additional monitoring wells (MW-9 and MW-10) were installed as point of demonstration wells downgradient of MW-4 and MW-5. Furthermore, the wells provided data to more accurately determine the extent of hydrocarbon impact for the BIOSCREEN model inputs.
- Based on the results of the Tier 1 and Tier 2 Evaluations, the groundwater encountered at the site during subsurface investigations is considered drinking water due to the presence of at least three potable water wells within a 2,000-foot radius from the site and due to the presence of a body of surface water within 300 feet. Grassy Creek is located approximately 250 feet north of the site and flows westward into the Maumee River. The future onsite Groundwater Ingestion Pathway is potentially complete for benzene, ethylbenzene, xylenes, and MTBE.
- The site is currently zoned commercial and, based on the criteria given in OAC 1301:7-9-13 (M)(1)(g), the anticipated future land use will be considered commercial since greater than 75% of the surrounding properties within 300 feet of the site are commercial..
- Extent of hydrocarbon impact in soil and groundwater has been defined to Tier 1 Action Levels.
- All chemical of concern concentrations in soil and groundwater do not exceed the applicable Tier 2 SSTLs and/or Tier 1 Action Levels with the exception of MTBE concentrations in groundwater collected from MW-4 and MW-5. However, the dissolved MTBE plume is not migrating in accordance with the conservative BIOSCREEN model predictions. Instead, the MTBE plume has demonstrated a relatively stable plume with minimal down-gradient migration as evidenced by site data. Based on these observations, the Groundwater Ingestion Pathway at the 250-foot POE is considered incomplete.

Based on the conclusions presented above, the residual hydrocarbon impact present in groundwater onsite does potentially pose an unacceptable risk to human health and the environment in the future scenarios. Speedway SuperAmerica LLC (SSA) will prepare an Environmental Covenant to prohibit future use of groundwater onsite as drinking water to eliminate the future onsite Groundwater Ingestion Pathway. **Additionally, since monitoring wells MW-9 and MW-10 have only been sampled once, SSA requests**

BUSTR approval to extend the Groundwater Monitoring Plan for three additional quarters. This extension will serve to demonstrate that BTEX and MTBE concentrations are stable or decreasing onsite and that the dissolved MTBE plume is stable and not migrating at the rate indicated in the BIOSCREEN model calculations. If BTEX and MTBE concentrations do not increase onsite and MW-9 and MW-10 continue to exhibit BTEX and MTBE concentrations below laboratory method detection limits, a No Further Action (NFA) status will be requested once the Environmental Covenant is recorded with Wood County.

If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

KH/
cc: Mark Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

February 01, 2006

KEITH HUGHES
ADVANCED ENVIRONMENTAL REP.
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: CORRECTIVE ACTION RULE DETERMINATION

Dear Mr. Hughes:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your letter dated January 26, 2006 requesting to continue corrective actions using Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999. BUSTR has determined that justification exists to continue conducting corrective actions pursuant to OAC 1301:7-9-13, effective March 1999 and therefore approves your request. Should this site fail to comply with the requirements of OAC 1301:7-9-13, effective March 1999, it will automatically be moved into OAC 1301:7-9-13, effective March 2005.

Please submit the Groundwater Monitoring Completion Report to BUSTR by June 30, 2006.

Thank you for your cooperation. If you have any questions, please contact Rick Krueger at (614) 728-5120.

Sincerely,

Peter A. Chace
Bureau Chief

xc: Site File
Carol Anne McConnell - PUSTRCB

Speedway
SUPERAMERICA

RECEIVED
2005 NOV -7 AM 11:53
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX 2ND DAY – 7902 0963 7725

1 November 2005

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report (Second Event)* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on 19 September 2005 in accordance with the extension of the groundwater monitoring plan as outlined in the ATC *Project Update Report* dated August 2005.

On 19 September 2005, depth to fluid measurements were collected from monitoring wells MW-1 through MW-8. Groundwater samples were collected and submitted to Southern Petroleum Laboratories, Inc. (SPL) located in Traverse City, Michigan and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The groundwater sampling methodologies are detailed in the attached report.

The laboratory analytical results for groundwater samples collected on 19 September 2005 indicate benzene, ethylbenzene, xylenes, and MTBE concentrations exceed Tier 1 Action Levels in monitoring wells MW-4. MTBE concentrations also exceeded Tier 1 Action Levels in MW-5.

One additional groundwater sampling event is scheduled for December 2005 to complete the extension of the groundwater monitoring plan. However, MTBE concentrations is MW-5 have consistently increased over the last eight sampling events conducted since April 2002. **Additionally, based on the current groundwater flow regime, Point of Demonstration (POD) have not adequately been positioned along the plume centerline. Therefore, two additional monitoring wells will be installed west of MW-4 and MW-5. Once the new wells are installed, a groundwater sampling event will be completed and a Tier 2 Addendum Report will be prepared to re-evaluate the BIOSCREEN fate and transport model.** If the results groundwater sampling event demonstrates an additional increase in MTBE concentrations in MW-5, an Interim Response Action (IRA), consisting of liquid recovery activities, will be considered.

If you have any questions or concerns, please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

KH/
cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL - 7005 3110 0001 4102 7042

BUSTR Received
1/30/06
RCK

26 January 2005

Mr. Pete Chace
Bureau Chief
Bureau of Underground Storage Tanks
8895 E. Main Street
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

RE: Continuance in 1999 Corrective Action Rules

Dear Mr. Chace:

We, Speedway SuperAmerica LLC, hereby inform the Bureau of Underground Storage Tank Regulations (BUSTR) of our request to continue corrective actions under the 1999 corrective action (CA) rules (effective March 31, 1999) for the release referenced in this correspondence. Our reason for this request is the site is currently being addressed under an approved Groundwater Monitoring Plan. The final groundwater sampling event of the monitoring plan is scheduled for February 2006. The benefit of keeping the release in the 1999 rule is the additional costs associated with complying with the analytical and reporting requirements specified in the 2005 Corrective Action regulations will not be incurred. **If this variance is granted by BUSTR, SSA proposes to submit the Monitoring Plan Completion Report to BUSTR prior to 30 June 2006.**

If you have any questions about this correspondence please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

Copy

James Leo – PUSTRCB Director, Certified Mail # 7000 0520 0012 4811 8623
Kelly Gill – BUSTR Corrective Action Supervisor, Delivered Regular Mail
Rick Krueger – BUSTR Site Coordinator, Delivered Regular Mail
SSA #3642 Remediation File – Government Correspondence
SSA #3642 Reimbursement File

Speedway
SA SUPERAMERICA

COPY

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

BUSTR RECEIVED 1/30/06 RCK

CERTIFIED MAIL - 7005 3110 0001 4102 7042

26 January 2005

Mr. Pete Chace
Bureau Chief
Bureau of Underground Storage Tanks
8895 E. Main Street
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

RE: Continuance in 1999 Corrective Action Rules

Dear Mr. Chace:

We, Speedway SuperAmerica LLC, hereby inform the Bureau of Underground Storage Tank Regulations (BUSTR) of our request to continue corrective actions under the 1999 corrective action (CA) rules (effective March 31, 1999) for the release referenced in this correspondence. Our reason for this request is the site is currently being addressed under an approved Groundwater Monitoring Plan. The final groundwater sampling event of the monitoring plan is scheduled for February 2006. The benefit of keeping the release in the 1999 rule is the additional costs associated with complying with the analytical and reporting requirements specified in the 2005 Corrective Action regulations will not be incurred. **If this variance is granted by BUSTR, SSA proposes to submit the Monitoring Plan Completion Report to BUSTR prior to 30 June 2006.**

If you have any questions about this correspondence please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

Copy
James Leo – PUSTRCB Director, Certified Mail # 7000 0520 0012 4811 8623
Kelly Gill – BUSTR Corrective Action Supervisor, Delivered Regular Mail
Rick Krueger – BUSTR Site Coordinator, Delivered Regular Mail
SSA #3642 Remediation File – Government Correspondence
SSA #3642 Reimbursement File

Speedway SUPERAMERICA

COPY

RECEIVED
2005 NOV 14 AM 11:55
FIRE MARSHAL

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL 7000 0520 0012 0670 2291

9 November 2005

Mr. James Leo
Director
PUSTRCB
50 West Broad Street (Suite 150)
Columbus, Ohio 43215

RE: **PRE-APPROVAL REQUEST**
Speedway SuperAmerica #3642
939 N. Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Leo:

The groundwater monitoring plan (approved by BUSTR on 27 January 2004) has been extended by two quarters as requested by BUSTR in the 16 May 2005 Additional Information Requested Letter (attached). Based on the current groundwater flow regime, it has been determined by our consultant (ATC Associates Inc.) that point of demonstration (POD) wells have not adequately been positioned along the plume centerline for the purpose of verifying the BIOSCREEN fate and transport predictions for the site. Therefore, two additional monitoring wells are proposed to be installed west of MW-4 and MW-5 to provide the appropriate POD wells (see attached figure). Once the wells are installed, the final scheduled quarter of groundwater monitoring will be conducted.

SSA respectfully requests that PUSTRCB grant pre-approval for the costs associated with the installation of the proposed POD wells and costs to include the two newly installed wells in the sampling plan. A tabulation of the proposed costs has been attached. If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith Hughes
Advanced Environmental Representative

KH/

Attachments: Figures, Tables, BUSTR Letter, and Cost Breakdown

cc: w attachment

Rick Krueger – Environmental Specialist (BUSTR)
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
David Dillon – Reimbursement Coordinator (SSA)

ATTACHMENT A

BRT SERVICES AND TECHNOLOGY

Cost Estimate - Change Order

SSA Store #3642 Rossford, Ohio *Summary of work:* Costs to include - Additional well installation.		PROJECT TOTALS		TASK 1 **Well Installation Activities**		TASK 2 **OUPS Notification and HASP Update**		TASK 3 **Groundwater sampling - new wells**		TASK 4	
	RATE	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount
Principal	$110	0	$0	0	$0	0	$0	0	$0	0	$0
Senior Project Manager	$90	1	$90	1	$90	0	$0	0	$0	0	$0
Project Manager	$82	4	$328	4	$328	0	$0	0	$0	0	$0
Engineer/Scientist (Hydro)	$75	2	$150	2	$150	0	$0	0	$0	0	$0
Field Staff (Jr. Hydro)	$60	16	$960	12	$720	4	$240	0	$0	0	$0
Project Manager Assistant	$55	3	$165	1	$55	2	$110	0	$0	0	$0
Technician	$50	0	$0	0	$0	0	$0	0	$0	0	$0
Drafting	$48	1	$48	1	$48	0	$0	0	$0	0	$0
Clerical/Administrative	$38	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL LABOR		27	$1,741	21	$1,391	6	$350	0	$0	0	$0
TOTAL SUBCONTRACTORS			$3,230		$3,230		$0		$0		$0
TOTAL LABORATORY			$403		$297		$0		$106		$0
TOTAL EXPENSES			$290		$290		$0		$0		$0
TOTAL ESTIMATED COSTS			**$5,664**		$5,208		$350		$106		$0

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 **Well Installation Activities**		TASK 2 **OUPS Notification and HASP**		TASK 3 **Groundwater sampling - new wells**		TASK 4 **0**	
SUBCONTRACTORS	**RATE**	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Drum Disposal	$100		$300	3	$300		$0		$0		$0
Drilling Services	$2,930		$2,930	1	$2,930		$0		$0		$0
			$0		$0						
TOTAL SUBCONTRACTORS			**$3,230**		**$3,230**		**$0**		**$0**		**$0**
LABORATORY											
BTEX&MTBE - Soil	$61.00		$244	4	$244		$0		$0		$0
BTEX&MTBE - Water	$53.00		$159	1	$53		$0	2	$106		$0
			$0		$0		$0		$0		$0
TOTAL LABORATORY COSTS			**$403**		**$297**		**$0**		**$106**		**$0**
EXPENSES											
Mileage	$0.40	0	$120	300	$120		$0		$0		$0
Lodging	$75.00	0	$0		$0		$0		$0		$0
Meals	$25.00	0	$0		$0		$0		$0		$0
Health & Saftey Kit	$10.00	1	$10	1	$10		$0		$0		$0
Misc. Expenses (gloves, Shipping, Ect..	$50.00	0	$50	1	$50		$0		$0		$0
PID	$65.00	0	$0		$0		$0		$0		$0
Water Level Ind	$10.00	0	$0		$0		$0		$0		$0
Interface probe	$50.00	0	$0		$0		$0		$0		$0
pH meter	$10.00	0	$0		$0		$0		$0		$0
Permit Fees	$200.00	0	$0		$0		$0		$0		$0
DO Meter	$10.00	0	$0		$0		$0		$0		$0
Survey Equipment	$100.00	1	$100	1	$100		$0		$0		$0
Disposable Bailers	$10.00	0	$0		$0		$0		$0		$0
Rope	$10.00	0	$0		$0		$0		$0		$0
Digital Camera	$10.00	1	$10	1	$10		$0		$0		$0
Drums	$30.00	0	$0		$0		$0		$0		$0
TOTAL EXPENSES			$290		$290		$0		$0		$0

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

May 16, 2005

Received
MAY 18 2005
Environmental
SSA, LLC

BRENT FOOS
ENVIRONMENTAL ENGINEERING
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SPEEDWAY #3642
939 EAST RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087 N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Foos:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your groundwater monitoring reports dated June 16, 2004 and August 30, 2004 for the site/release listed above. Based on our review, BUSTR had determined that additional groundwater monitoring is necessary due to the recent concentrations of benzene and MTBE. Therefore, BUSTR requests to following:

1. Please continue the groundwater monitoring program approved by BUSTR on January 27, 2004.
2. Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is currently in use.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

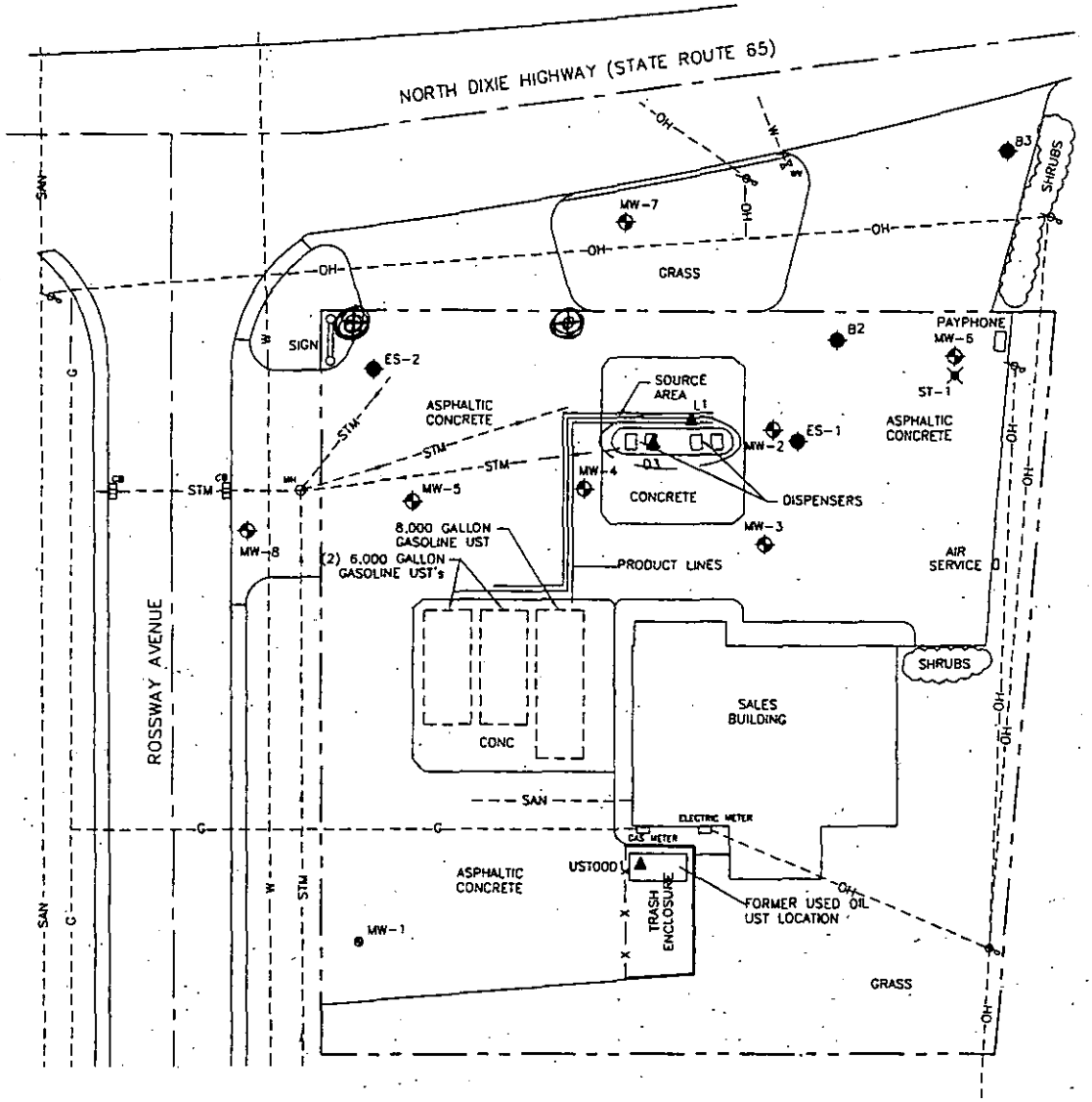
Thank you for your cooperation. If you have any questions, please contact me at 614-752-5120.

Sincerely,

Rick Krueger

Rick Krueger
Environmental Specialist

cc: Site File
Travis Bukach – ATC Associates, Brecksville, OH



PROPOSED MONITORING WELLS

C:\DRAWINGS\SPEEDWAY\3642\SM.DWG

SITE MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057	DATE: 07/29/05
SCALE: 1" = 30'	DRAWN BY: R. Saunders
FIGURE 2	REVIEWED BY: N. Saracena

ATC ASSOCIATES INC.

ATC ASSOCIATES, INC.
10020 Brecksville Rd, Brecksville, OH 44141
Phone: 440-838-7177

RECEIVED
2005 AUG 25 PM 3:31
STATE FIRE MARSHAL

Letter of Transmittal

To: Mr. Rick Krueger
Environmental Specialist
BUSTR
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: SSA Unit # 1140, 3642

Date: August 22, 2005

87000087-N2

Date	# of Copies	Description
19-Aug-05	1	Groundwater Sampling Activities
19-Aug-05	1	Additional Information Response Letter Report

These are transmitted:

- ☐ For Approval
- ☐ For Review
- ☒ For Your Use
- ☐ As Requested
- ☐ For Signature's) and Return Requested
- ☐ Other

Mode of Shipment

- ☐ Regular Mail
- ☒ Certified Mail
- ☐ Priority Over-Night
- ☐ Second Day Delivery
- ☐ Airborne Ground

Comments:

Copy W/Encl.

Project File

Signed: *Mark Samblanet*

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

May 16, 2005

BRENT FOOS
ENVIRONMENTAL ENGINEERING
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 EAST RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Foos:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your groundwater monitoring reports dated June 16, 2004 and August 30, 2004 for the site/release listed above. Based on our review, BUSTR had determined that additional groundwater monitoring is necessary due to the recent concentrations of benzene and MTBE. Therefore, BUSTR requests to following:

1. Please continue the groundwater monitoring program approved by BUSTR on January 27, 2004.

2. Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is currently in use.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

Krueger, Rick

From: Krueger, Rick
Sent: Thursday, April 14, 2005 1:00 PM
To: 'Travis Bukach'
Subject: RE: Release #87000087-N00002 - SSA #3642 Rossford

Hi Travis. I will put this on my list of sites to review. However, I have a very lengthy back-log.

Is there an imminent threat to human health or the environment at this site?
Is there a reason to make this site a top priority for BUSTR?

-----Original Message-----
From: Travis Bukach [mailto:travis.bukach@atcassociates.com]
Sent: Thursday, April 14, 2005 11:41 AM
To: Krueger, Rick
Subject: FW: Release #87000087-N00002 - SSA #3642 Rossford

Mr. Krueger:

Can you please advise ATC/SSA on how to proceed with this site. Specifically, should additional groundwater monitoring be conducted to show steady-state conditions? See the attached email below.

Travis S. Bukach
Project Geologist,

ATC ASSOCIATES INC.
10020 Brecksville Road
Brecksville, Ohio 44141
Phone: 440-838-7177 Fax: 440-838-7181
Email: travis.bukach@atcassociates.com

-----Original Message-----
From: Travis Bukach [mailto:travis.bukach@atcassociates.com]
Sent: Wednesday, March 02, 2005 9:10 AM
To: Rick Krueger (rkrueger@com.state.oh.us)
Subject: Release #87000087-N00002 - SSA #3642 Rossford

Mr. Krueger:

A Tier 2 Evaluation Report was submitted for Release #87000087-N00002 in June 2003. Based on the results, a groundwater monitoring plan was implemented to verify the predictions of the BIOSCREEN model. Four quarters of sampling and reporting were completed by the previous consultant (Parsons). In the last groundwater sampling report (dated 30 August 2004), it was suggested that an additional (fifth) groundwater sampling event would be conducted due to increasing concentrations of benzene in MW-4. Upon review of the final report, it appears MTBE concentrations in MW-5 have also increased.

To date, the proposed additional groundwater sampling event has not been completed and a Tier 2 Verification / Monitoring Plan Completion Report has not been prepared. ATC (on behalf of SSA LLC) would appreciate feedback from BUSTR as to how to proceed with this site, given the increase in benzene and MTBE concentrations at the site. If you have any questions or require additional information, please feel free to give me a call.

Thank you for your time,

Travis S. Bukach
Project Geologist

ATC ASSOCIATES INC.

10020 Brecksville Road
Brecksville, Ohio 44141
Phone: 440-838-7177 Fax: 440-838-7181
Email: travis.bukach@atcassociates.com

PARSONS

19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
7-Sep-04	441032.99006
ATTENTION: Mr. Rick Krueger	
RE: 8700087 - N2	
SSA Unit #3642	
939 East River Road	
Rossford, Ohio	

TO Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	30-Aug-04		Groundwater Sampling Activities 16 June 04

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]

[X] For your use [ ] Approved as noted [ ]

[X] As requested [ ] Returned for corrections [ ]

[ ] For review and comment [ ] Return _____

[ ] FOR BIDS DUE _____ 20 _____ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS

Mr. Krueger:

Please find enclosed the above referenced document. If you have any questions, please feel free to call Andy Shrock at 216-486-9005.

RECEIVED
2004 SEP -8 PM 12:50
STATE FIRE MARSHAL

COPY TO _____

SIGNED *Andy Shrock, P.G.*

If enclosures are not as noted, kindly notify us at once.

RECEIVED
2004 JUN 16 PM 2:52
STATE FIRE MARSHAL

PARSONS

19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
15-Jun-04	477032.9006

ATTENTION: Mr. Rick Krueger

RE: 8700087 - N2
SSA Unit #3642
939 East River Road
Rossford, Ohio

TO: Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	Jun-04		Groundwater Monitoring and Sampling Report

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[X] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 20 _____ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS

Mr. Krueger:

Please find enclosed one copy of the above referenced document. If you have any questions, please feel free to call Andy Shrock at 216-486-9005.

COPY TO _____

SIGNED *Adam Tucker P.G.*

If enclosures are not as noted, kindly notify us at once.

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

January 27, 2004

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 UPGRADE OF UST SYSTEM AND
SUBSEQUENT RELEASE TO CREEK
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: GROUNDWATER MONITORING PLAN APPROVAL

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) reviewed the Groundwater Monitoring Plan (dated September 18, 2003) for the site/release listed above. Based on the information provided, BUSTR agrees that the proposed monitoring plan seems reasonable and appropriate for this site, and hereby approves the plan.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

PARSONS
19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
19-Sep-03	440142.99006

ATTENTION: Mr. Rick Krueger

RE: SSA Unit #3642
939 East River Road
Rossford, Ohio

TO Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	18-Sep-03	--	Monitoring Plan

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[X] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[ ] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 19 _____ [ ] PRINTS RETURNED AFTER LOAN TO U

RECEIVED
2003 SEP 23 PM 1:13
STATE FIRE MARSHAL

REMARKS

Rick,

Please find attached the Monitoring Plan for the above referenced site. Please feel free to call with any questions.

COPY TO Brian Epperson

SIGNED Adam Tucker
Adam C. Tucker, PG

If enclosures are not as noted, kindly notify us at once.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

2003 SEP 23 P 1:13

STATE FIRE MARSHAL

P:\SSA\3642_Rossford\Docs\3642_Monitoring Plan.DOC

CERTIFIED MAIL

18 September 2003

Mr. Rick Krueger
Bureau of Underground Storage Tank Regulations
BUSTR
LUCAS COUNTY CORRECTIVE ACTIONS
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica Unit #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00001 (2)
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

This letter provides a response as requested in your letter dated 25 July 2003 titled "Monitoring Plan Requested". A copy of your letter has been included as Attachment A. This site is currently regulated under the Ohio Administrative Code 1301:7-9-13, effective March 1999. A Tier 2 Evaluation Report was submitted to BUSTR during June 2003.

Responses to BUSTR Comments

Comment: *BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13(R).*

Response: Groundwater monitoring will be conducted at the site to verify the BIOSCREEN model predictions related to the potential migration of COCs to a potential offsite receptor. Quarterly groundwater samples will be collected from monitoring wells MW-1 through MW-8 at the site.

In preparation for sample collection during each quarterly sampling event, groundwater depth will be measured for each well. Water will be bailed from each well until either a minimum of three well volumes of water is removed, or the well is bailed dry. The wells will be allowed to recharge before sampling. Water samples will be collected with disposable bailers and placed into laboratory supplied 40-milliliter glass vials, placed on ice in a cooler, and submitted under chain-of-custody procedures to an SSA preferred laboratory. The samples will be analyzed for BTEX and MTBE (Method 8021B).

The anticipated groundwater monitoring length is one year. Because a groundwater monitoring plan was anticipated, quarterly groundwater monitoring was implemented upon submission of the Tier 2 report. If the groundwater sampling results indicate that the COC concentrations detected in groundwater at the point of demonstration are consistent with the prediction of BIOSCREEN model, groundwater monitoring will be terminated and a "No Further Action" status will be requested.

If you have any questions or require additional information, please contact me at 937-863-6514.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Advanced Environmental Representative

cc: Adam Tucker (Parsons)
Remediation File #3642
Reimbursement File #3642

ATTACHMENT A

BUSTR CORRESPONDENCE

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

RECEIVED
JUL 31 2003
Parsons

July 25, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: MONITORING PLAN REQUESTED

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your "Tier 2 Evaluation Report" dated June 2003. Based on our review, BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13 (R).

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 60 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

July 25, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: MONITORING PLAN REQUESTED

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your "Tier 2 Evaluation Report" dated June 2003. Based on our review, BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13 (R).

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 60 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

Speedway SUPERAMERICA

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501

CERTIFIED MAIL

23 June 2003

Mr. Richard Krueger
Site Coordinator
Bur. Of Underground Storage Tank Regulations
WOOD COUNTY CORRECTIVE ACTIONS
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica LLC #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00001
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is the *Tier 2 Evaluation Report* for the above referenced site. The Tier 2 was conducted because the maximum benzene concentration detected in soil exceed the Tier 1 Action Levels for the soil volatilization to indoor air and the soil leaching to groundwater pathways, and the benzene, ethylbenzene and methyl tert butyl ether (MTBE) concentrations detected in groundwater exceed the Tier 1 Action Levels for the groundwater ingestion pathways.

The Tier 2 activities were performed to assess the potential risk to human health and the environment associated with site soil and groundwater in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, 31 March 1999, as enforced by Bureau of Underground Storage Tank Regulations (BUSTR). The BUSTR Tier 2 spreadsheets (May 2001) were used in the risk evaluation along with BIOSCREEN Natural Attenuation Decision Support System Version 1.4.

Under the current scenario as an active gasoline retail facility, commercial workers are the current human receptors. Less than 75% of the surrounding properties are commercial; therefore, residents are the future potential onsite receptors.

During the Tier 1 assessment, potable water wells were found within 2,000 feet of the site according to the Ohio Department of Natural Resources (ODNR), Division of Groundwater. Based on the preceding information, the saturated zone beneath the site is classified as drinking groundwater.

The Tier 2 Evaluation results indicated that the maximum benzene concentration detected in soil is below the SSTL for the soil to indoor air pathway (future residential). All other pathways are incomplete. Therefore residual petroleum hydrocarbons in soil and groundwater at SSA Unit #3642 do not pose an unacceptable risk under the current commercial and future residential scenarios.

RECEIVED
2003 JUN 27 AM 6:12
STATE FIRE MARSHAL

Based on the information presented in the enclosed report, SSA requests BUSTR's consideration for a "No Further Action" status. If you have any questions or concerns, please do not hesitate to contact me at (937) 863-6514.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian K. Epperson
Advanced Environmental Representative

Enclosure – Tier II Report, dated June 2003
Copy w/enclosures:
Remediation File – Reports
Remediation File – Reimbursement

Copy wo/enclosures:
Remediation File – Government Correspondence
Adam Tucker (Project Manager) - Parsons

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

May 19, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER EVALUATION REPORT

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) reviewed our file for the site/release listed above. Based on our review, BUSTR wishes to remind you that the Tier 2 Evaluation Report must be submitted to BUSTR no later than May 31, 2004.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Andrew Shrock - Parsons Engineering Science, Cleveland, OH

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

June 27, 2002

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: GASTOWN #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #**87000087-N00002**

RE: TIER EVALUATION OPTIONS

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed the file for the site listed above, including the Tier 1 Evaluation Report dated May 2002. Based on our review, you are instructed to proceed with one or a combination of the following options to address the chemicals of concern and the corresponding pathways where the concentrations are above actions levels, in accordance with Ohio Administrative Code 1301:7-9-13 (J):

- An Interim Response Action
- A Remedial Action Plan
- A Tier 2 Evaluation

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

In addition, please note that future correspondence for this site should reference release # 87000087-N00002 (not N00004). All releases have been "disproved", with the exception of N00002.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Andrew Schrock - Parsons Engineering Science

Speedway
SUPERAMERICA

RECEIVED
2002 JUN 12 AM 10:16
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

P:\SSA\3642_Rossford\Working\Tier1\3642_Tier1_BUSTR_May02.doc

CERTIFIED MAIL

31 May 2002

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
BUSTR
WOOD COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica Unit #3642
939 E. River Road
Rossford, Ohio
Wood County
Release #87000087-N00004 (2)
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Tier 1 Evaluation Notification Checklist* prepared on behalf of Speedway SuperAmerica LLC for the above referenced site. The report summarizes the Tier Evaluation activities that were conducted during March and April 2002.

Release #87000087-N00004 was assigned to the site based on the gasoline release which was confirmed on 31 December 1997. Until December 2001, the site was regulated under the Ohio Administrative Code (OAC) Rule 1301:7-9-13 (effective September 1992), and the site was being assessed. **However, SSA has elected to apply the 1999 Corrective Action rule (effective date 31 March 1999) to this release as indicated in the SSA letter to the Bureau of Underground Storage Tank Regulations (BUSTR) dated 27 December 2001.**

On 6 through 11 March 2002, five soil borings were advanced and completed as monitoring wells MW-2 through MW-6. One additional soil boring, ST-1, was advanced to collect a Shelby Tube sample. A groundwater sampling event was collected on 11 April 2002. No Interim Response activities have been conducted.

During the Tier 1 Evaluation, the following information was collected:

- The release date for Release #87000087-N00004 is 31 December 1997. The release was discovered when gasoline was detected in the onsite storm sewers and in Grassy Creek.
- The probable source of the release is the gasoline UST system. The current source area is the area immediately surrounding and downgradient of the gasoline dispensers.
- Gasoline is dispensed at the facility, therefore, the COCs at the site are those associated with Analytical Group 1 (BTEX and MTBE).
- The dominant soil type at the site was classified as silty/clayey sands (CL).
- Groundwater was encountered in each soil boring at approximately 11 to 35 feet below surface grade (BSG). There appears to be two distinctive groundwater zones, with each zone exhibiting movement towards the south.
- Groundwater cannot yet be eliminated as a drinking water source since there are wells located within a 2,000-foot radius of the site.

Soil analytical results indicate that benzene concentrations exceeded Action Levels for the silty/clayey sand soil leaching to drinking groundwater pathway. Groundwater analytical results

indicate that benzene, ethylbenzene, and/or MTBE concentrations exceeded Tier 1 Action Levels for the groundwater ingestion pathway at monitoring wells MW-4 and MW-5.

Based upon the results presented within this report, SSA will initiate a Tier 2 Evaluation at the site. If you have any questions or concerns, please contact me at 937-863-6514.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Environmental Representative

ACT/dee

Enclosure – *Tier1 Evaluation Notification Checklist* dated May 2002
Andrew Shrock (Parsons)
Remediation File #3642
Reimbursement File #3642

PARSONS ENGINEERING SCIENCE, INC.
19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
10-Jun-02	741479.99006

ATTENTION: Mr. Rick Krueger

RE: **SSA Unit #3642**
939 East River Road
Rossford, Ohio

TO Site Coordinator
Bureau of Underground Storage Tank Regulations
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	10-Jun-02	--	Tier 1 Evaluation

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [X] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [ ] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[ ] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 19 _____ [ ] PRINTS RETURNED AFTER LOAN TO U

RECEIVED
2002 JUN 12 AM 10:16
STATE FIRE MARSHAL

REMARKS

Mr. Krueger,
Attached is the Tier 1 Evaluation Report for this facility.

COPY TO _____

SIGNED *Andrew Shrock*

If enclosures are not as noted, kindly notify us at once.

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

March 11, 2002

MATTHEW JORDAN
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: GASTOWN #3642
1997 UPGRADE OF UST SYSTEM AND
SUBSEQUENT RELEASE TO CREEK
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
FORMER INCIDENT # 8770081-01
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Jordan:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed the facility file, including the Site Assessment report dated May 1998. Based on our review, BUSTR requests the following information:

1. Provide a map that accurately identifies the locations of all on-site utilities that may act as a route of migration, in accordance with OAC 1301:7-9-13 (I) (3) (c), effective September 1992.
2. The Site Assessment report must include a summary of the previous closure sampling and analysis data, in accordance with OAC 1301:7-9-13 (I) (3) (d).
3. The Site Assessment report must include a determination of the horizontal and vertical extent of the release associated with the former piping and dispenser area, in accordance with OAC 1301:7-9-13 (I) (3) (e) and (f).
4. Please provide information concerning the December 1997 through January 1998 Immediate Corrective Action that was performed to cleanup and investigate the gasoline release to the nearby creek.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File

Speedway
SUPERAMERICA

RECEIVED
2002 JAN -2 AM 8:45
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

CERTIFIED MAIL #70001670000886632097

December 27, 2001

Mr. Doug Thompson
Bureau of Underground Storage Tanks
BUSTR
LUCAS COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway #3642
939 East River Road
Rossford, Ohio
Lucas County
Incident #87000087-N00004

Dear Mr. Thompson:

We, Speedway SuperAmerica LLC, hereby inform BUSTR of our election to apply the 1999 CA rule (effective March 31, 1999) to the release site referenced in this correspondence. We also acknowledge that once this election is made, it cannot be reversed. This notification is provided in accordance with current BUSTR policy.

If you have any questions or concerns, please do not hesitate to call the undersigned at (937) 863-6510.

Sincerely,
Speedway SuperAmerica LLC

Matthew Jordan
Environmental Representative

Copy
Carol DeVore – PUSTRCB
Adam Tucker - Parsons
Remediation File - Government Correspondence
Remediation File – Reimbursement

PARSONS

Parsons Engineering Science, Inc. • A Unit of Parsons Infrastructure & Technology Group Inc.
19101 Villaview Road, Suite 100 • Cleveland, Ohio 44119-3088 • (216) 486-9005 • Fax (216) 486-6119 • www.parsons.com
P:\SSA\3642_Rossford\Docs\Doug Thompson letter.doc

RECEIVED
2001 APR 16 A 11:58
STATE FIRE MARSHAL
BUSTR

CERTIFIED MAIL

11 April 2001

Mr. Doug Thompson
Site Coordinator
Bureau of Underground Storage Tank Regulations
WOOD COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway Unit #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00004 (2)

Dear Mr. Thompson:

Parsons Engineering Science (Parsons), on behalf of Speedway SuperAmerica LLC (SSA), is submitting the following information for your review concerning the Bureau of Underground Storage Tank Regulations (BUSTR) letter dated 27 March 2001. As stated in the letter, a site assessment was requested by BUSTR on 14 January 1998 and BUSTR has no record of the site assessment completion. Site assessment activities were conducted at the site in May 1998 in response to BUSTR's request. The report was submitted to BUSTR on 13 August 1998. A copy of the site assessment report and the original cover letter is attached.

In addition, BUSTR has no information related to the suspected release reported 29 June 2001 due to statistical inventory reconciliation (SIR) records that did not reconcile. Please find attached the results of the tightness test conducted in response to the suspected release reported due to SIR records that did not reconcile.

Please review this information and SSA will contact you in a few weeks to discuss any additional activities. If you have any further questions, please feel free to contact the undersigned at (216) 486-9005.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.

Adam C. Tucker

Adam C. Tucker, P.G.

ACT/dee
Attachments
cc: Julius Blanco - SSA
File 732903

Speedway SUPERAMERICA

STORE# 3642 F# 0
REMEDIATION

Speedway SuperAmerica LLC
P. O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873
Fax 937-323-6278

August 13, 1998

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081

Dear Mr. Thompson:

Please find enclosed the site assessment report for the above referenced site. The site assessment was completed as a result of an earlier release involving a leak from a dispenser filter which overflowed a containment sump.

Two additional soil borings were completed in addition to one boring and a monitoring well completed during an earlier investigation (ATC Associates, July, 1997). Detectable hydrocarbon concentrations were encountered in one boring (ES-2), however all concentrations were below Category 2 action levels.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

March 27, 2001

JULIUS BLANCO
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: GASTOWN #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
FORMER INCIDENT #8770081-~~03~~ 61
RELEASE #87000087-N0000~~4~~ 2

RE: NO ANSWER TO INFORMATION REQUEST

Dear Mr. Blanco:

On January 14, 1998, the Bureau of Underground Storage Tank Regulations (BUSTR) sent you a letter requesting information needed to complete your site assessment requirements due to free petroleum product being discovered off site. As of this date you have not provided the requested information. To be in compliance with Ohio Administrative Code (OAC) 1301:7-9-13, effective September 1992, you must supply this information within 30 days from the date of this letter.

Additionally, on June 29, 2000, BUSTR was notified that statistical inventory reconciliation records did not reconcile and you were sent a suspected release letter dated July 3, 2000 in which you were directed to perform a site check in accordance with OAC 1301:7-9-13(E) and (F). To date, BUSTR has not received a response from you. To be in compliance with OAC 1301:7-9-13, effective March 31, 1999, you must supply this information to our bureau within 30 days from the date of this letter.

Failure to comply with either of the above-mentioned criteria will result in a recommendation to the State Fire Marshal that he refer this matter to the Attorney General for enforcement seeking injunctive relief and maximum civil penalties for each day you have remained in violation of OAC 1301:7-9-13.

To assist you in tracking the above-mentioned incidents, I have enclosed copies of both the January 14, 1998 and July 3, 2000 letter.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5122.

Sincerely,

Doug Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, RS, MSEPH, Wood County Combined General Health District

Oh[redacted]epartment of Com[redacted]ce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942

George V. Voinovich
Governor

Donna Owens
Director

January 14, 1998

PHIL PAVLOVICZ
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: SPEEDWAY #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
INCIDENT #8770081-~~03~~ 01

RE: SITE ASSESSMENT REQUIRED

Dear Mr. Pavlovicz:

On December 31, 1997, the Bureau of Underground Storage Tank Regulations (BUSTR) was notified that free product was discovered in the storm sewer at this site. This occurrence meets a definition of a release found in Ohio Administrative Code (OAC) 1301:7-9-13(B)(2). You are required to perform a site assessment as prescribed in OAC 1301:7-9-13(I)(3) and explained in BUSTR's *Corrective Action Guidance Document.* These documents describe the activities that must be performed during the site assessment and the information which is to be submitted to BUSTR in the site assessment report. You must submit the site assessment report within 180 days of reporting the release or suspected release.

All excavated soils shall be managed as petroleum contaminated soils (PCS) unless laboratory analysis indicates otherwise. Underground storage tank owners or/and operators are therefore requested to complete and submit the enclosed "Soil Disposal/Treatment Notification Form". The completion of this form, along with all applicable supporting information and documentation, will allow the BUSTR staff to verify proper PCS disposal. A separate form must be completed for each soil pile or containerized soil group.

An order form is enclosed to assist you in obtaining the documents described in this letter and other publications which may help you understand the requirements for compliance with BUSTR's rules and regulations.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5122.

Sincerely,

Doug Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, Wood County Health Department

SITE LISTING UPDATE FORM

EXISTING INCIDENT #: 8770081 · 03 (01) · FY98

FACILITY NAME: Speedway #3642 NEW FACILITY INFO? ____ YES ____ NO (Update on back)

[1] REASON FOR LISTING UPDATE

___ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
___ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
___ [9] Other:

[2] NEW SITE LISTING DATA

INCIDENT #: ____ · ____ · ____
REPORT NUMBER FAC TRKG# SPRC

EMERGENCY RESPONSE: ___ YES ___ NO BY: ___ PH (____) ___ CEPA ___ USEPA

STATUS: ___ RPT ___ SUS ___ NRS ___ DIS (X CON) ___ ICA ___ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* X 2

CLASSIFICATION: ___ A ___ B ___ C X D LTF ELIGIBILITY: (CIRCLE) (1) 2 6 ___ OTHER

SITE COORDINATOR: CoCA

[3] PCE DATA

DISP/TREAT ____ LOC: ____ CUBIC YARDS: ____

[4] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)

(First sentance - why is it a 1? Second sentance - who is doing what at this time)

[5] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $100,000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement: amount: ____

[6] SITE MANAGEMENT REMARKS

(BUSTR actions needed/taken, reports expected, etc.)

CON Release ltr sent to P/O.

[7] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT

(For use by supervisor)

UPDATE SUBMITTED BY: PST DATE: 1-14-98

APPROVED: [signature] DATE: 1-20-98 ENTRY: [signature] DATE: JAN 22 1997

OhioEPA
State of Ohio Environmental Protection Agency

Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402-9398
(419) 352-8461 FAX(419) 352-8468

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Bob Rhodes Eric Larson

COMPANY/DIVISION: SEM/Bustr Wood Co EMA

FAX NUMBER: 614-752-7942 419-354-6382

FROM: Mike Gerber

DIVISION: Ohio EPA ER

TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 6

SENDER'S (SECRETARY'S) SIGNATURE: _____

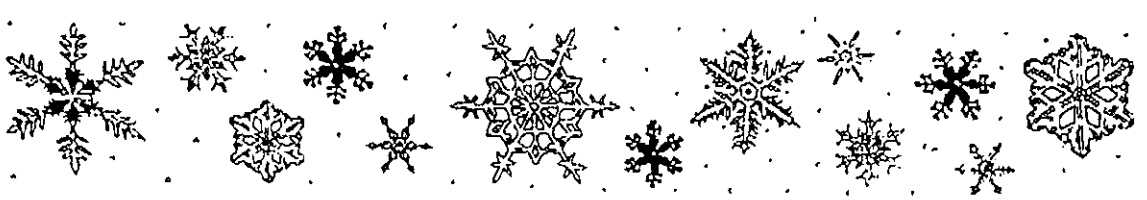
DATE: 01/06/97

_____
SUPERVISOR'S SIGNATURE IF FAXING MORE THAN 20 PAGES

COMMENTS:

Spill # 9712-87-4975

SPEEDWAY



OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

SPILL # : 9712-87-04975 **PAGE: 2**

---NOTIFICATIONS---

AGENCY NAME	DATE SENT	PERSON
RTK	/ /	LUFKIN
DSW/WW	/ /	WICK
RTK	/ /	LUFKIN
DSW/WW	/ /	WICK

---REMARKS---

12/31/97

OSC GERBER

2224 HOURS- THE GASOLINE WAS DISCOVERED BY RESIDENTS IN THE APARTMENTS TO THE EAST OF THE SPEEDWAY STATION #3642 (LYNDA LANEY; 937 322 1873). THE ROSSFORD FIRE DEPT. (CHIEF JOHN VEDRA; 419 536 4629) RESPONDED AND DISCOVERED FREE PRODUCT DISCHARGING INTO GRASSY CREEK FROM A STORM SEWER LINE ADJACENT TO THE SPEEDWAY PROPERTY. THE LEL IN THE STORM SEWER CATCH BASINS DOWNSTREAM OF THE APARTMENT COMPLEXES WAS FOUND TO BE OVER 28%, AND THERE WAS A STRONG GASOLINE ODOR THROUGHOUT THE AREA. THE STORM SEWER LINE RAN UNDER THE SPEEDWAY DISPENSER ISLAND AREA, AND THE MANAGER OF THE STATION WAS REQUESTED BY THE FIRE DEPARTMENT TO SHUT THE PUMPS OFF, AND CONTACT THE MANAGEMENT OF THE STATION. AFTER RECEIVING THE CALL FROM E.R. D.O. BONNER, I CONTACTED THE ROSSFORD F.D. (THROUGH FAY BALSMEYER; 419 666 5230) WHO UP-DATED ME ON THE INCIDENT. THE FIRE DEPARTMENT WAS IN THE PROCESS OF INSTALLING SORBENT MATERIAL IN THE CREEK DOWNSTREAM OF THE DISCHARGE AND THE SR 65 OVERPASS. WHEN I ARRIVED ON SCENE, THE FIRE DEPARTMENT HAD CLOSED OFF THE ROADWAYS AROUND THE STATION, AND THE STATION WAS SHUT DOWN. MS. LANEY WAS IN THE PROCESS OF CONTACTING MR. DAVID THOMAS (MARATHON OIL CO. REP.; 419 421 3274) AND MR. PHILIP PAVLOVICZ (EMRO MARKETING ENVIR. ENG.; 937 391 5282). FREE PRODUCT WAS OBSERVED DISCHARGING FROM THE STORM SEWER TILE, AND FLOWING UNDER THE ICE AND SORBENT BOOM AT THE TILE. DOWNSTREAM OF THE SR 65 BOOM, FREE PRODUCT APPEARED TO BE FROZEN IN THE ICED OVER CREEK, AND THE PRODUCT MIGRATION APPEARED TO BE STOPPED. WHILE ON SCENE, I CHECKED THE DISPENSER PUMPS AND GROUND WATER MONITORING WELLS IN THE TANK CAVITY. AN INCH OF FREE PRODUCT WAS DISCOVERED UNDER ONE OF THE PUMPS IN THE CONTAINMENT CONTAINER. PRODUCT STAINING ON THE WALLS OF THE CONTAINER SHOWED THAT THE PRODUCT LEVEL HAD AT ONE TIME BEEN UP TO THE BOTTOM OF THE PIPES LEADING TO THE PUMPS. MS. LANEY STATED THAT SPEEDWAY MAINTENANCE WORKERS HAD BEEN WORKING ON THE DISPENSER DURING THE DAY, BUT LEFT EARLY DUE TO THE NEW YEARS HOLIDAY. THE PUMP WAS PUT BACK IN SERVICE. MS. LANEY ALSO STATED THAT THE STATION WAS HAVING PROBLEMS WITH ITS TANK ALARMS, WHICH KEEP GOING OFF. NO PRODUCT WAS DETECTED IN THE MONITORING WELLS. WHILE ON SCENE, I CONTACTED THE SFM BUSTR, AND WAS CONTACTED ON SCENE BY MR. VERN ORR (SFM BUSTR SUPERVISOR) WHO WAS INFORMED OF THE INCIDENT, AND PROVIDED THE COMPANY CONTACT NAMES AND PHONE NUMBERS. MR. ORR WILL HAVE SOMEONE FOLLOW-UP ON THE SITE ON 01/02/98, AND WILL CONTACT MR. PAVLOVICZ TONIGHT. AT 0930 HOURS, I WAS CONTACTED BY MR. PAVLOVICZ WHO WAS INFORMED OF THE INCIDENT, AND REQUIRED TO STOP THE MIGRATION OF GASOLINE INTO THE STORM SEWER AND CREEK. MR. PAVLOVICZ WAS PROVIDED THREE LOCAL CLEAN-UP CONTRACTORS, AND CONTACTED PHILIPS ENVIRONMENTAL SERVICES (800 433 6754). DUE TO THE HOLIDAY, PHILIPS COULD NOT RESPONDED UNTIL AM ON 01/01/98. AFTER BEING INFORMED OF THE DELAY IN RESPONSE BY PHILIPS, I RECHECKED THE PRODUCT MIGRATION IN THE CREEK. AT THIS TIME THE ICE COVERING THE WATERWAY WAS PREVENTING THE MIGRATION OF GASOLINE ANY FARTHER THAN 10 FEET FROM THE SR 65 SORBENT BOOM. IT WAS DETERMINED BY CHIEF VEGRA, MR. TOM BENTLEY (WOOD CO. EMA; 419 288 2741), AND MYSELF THAT THE PRODUCT RECOVERY COULD WAIT UNTIL AM ON 01/01/98. MR. PAVLOVICZ WAS CONTACTED WITH THE UP-DATE, AND AGREED TO HAVE PHILIPS BE ON SITE BY 0800 HOURS. MR. PAVLOVICZ ALSO STATED THAT HE WOULD RESPONSE, AND OVER SEE THE CLEAN-UP OF THE WATERWAY.

OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

SPILL # : 9712-87-04975 **PAGE: 3**

FURTHER SITE REMEDIATION WILL OCCUR ON 01/02/98 UNDER THE GUIDANCE OF THE SFM BUSTR. AT THIS TIME THE WATER TRAPS IN THE STORM SEWER LINES LEADING FROM THE APTS. HAVE BEEN FILLED, AND THE GASOLINE PUMPS SHUT DOWN (STOPPING THE LEAK).

01/05/98

OSC GERBER

AT 1101 HOURS I RECEIVED A PHONE MESSAGE FROM MR. PAVLOVICZ WHO STATED THAT ON 01/01 THROUGH THE FOLLOWING WEEKEND THE PRODUCT HAD BEEN VACUUMED OUT OF THE STORM SEWER TILE, AND REMOVED FROM THE CREEK. AT THIS TIME THE RELEASE WAS THOUGHT TO BE FROM A PUMP SEAL WHERE A GASKET WAS MISSING, AND A OVERFLOW OF THE CONTAINMENT CONTAINER UNDER THE PUMP. EARLIER IN THE DAY, I HAD BEEN CONTACTED BY MR. BOB RHODES (SFM BUSTR) WHO STATED THAT HE HAD BEEN ON SCENE ON 01/02, AND THAT THE CLEAN-UP WAS WELL UNDER WAY. AT THIS TIME THE SFM/BUSTR WILL FOLLOW-UP ON THE SITE. AT 0800 HOURS, I CONTACTED MR. ERIC LARSON (WOOD CO. EMA DIR.; 419 354 9269), AND UP-DATED HIM ON THE RESPONSE.

OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

TIME ACCOUNTING INFORMATION

SPILL #: 9712-87-04975 PAGE: 4/1

OSC GERBER

DATE 12/31/97 VISIT NO 1 TOTAL MILEAGE 41

ARRIVAL TIME 2000 DEPARTURE TIME 2154

TIME CODE	REGULAR	OVERTIME	TOTAL
0969	0.00	1.90	1.90
0022	0.00	1.20	1.20
		TOTAL TIME	3.10

TOTAL TIME 3.10 TOTAL MILEAGE 41

GRAND TOTAL

TOTAL TIME 3.10 TOTAL MILEAGE 41

OhioEPA INITIAL POLLUTION INCIDENT REPORT

SPILL I.D #: 9712-87-4975 DISTRICT: NW

REPORTED BY:	FAYE BALSMEYER	REPORTED:	12/31/97 19:11
TITLE:	DISPATCHER	DISCOVERED:	12/31/97 18:36
TELEPHONE:	419-666-5230	OCCURRED:	/ / 0
AFFILIATION:	FD		

DID SPILLER REPORT? N COMPLAINT? N PRIORITY: 2

SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH 0
TELEPHONE:

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: UNKNOWN
REASON: UNKNOWN REASONS
LATITUDE: 0 LONGITUDE: 0 WATERWAY AFFECTED:
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

REMARKS

DISPATCHER REPORTED THAT THERE IS A STRONG ODOR OF GASOLINE IN THE SEWER WHICH THEY THINK IS COMING FROM THE SPEEDWAY GAS STATION.

OSC GERBER NOTIFIED

JAY JONES OF WTOL TV CALLED 1/1/98 AND ASKED IF THERE WERE ANY CONTAMINATION TO THE CREEK I TOLD HIM THAT THE GAS WAS FREEZING IN THE ICE AND COUSINS WERE DOING PRODUCT RECOVERY 1/1/98.

OhioEPA INITIAL POLLUTION INCIDENT REPORT

SPILL I.D #: 9712-87-4975 / 1 DISTRICT: NW

REPORTED BY:	PHIL PAVLOVICZ	REPORTED:	12/31/97 21:39
TITLE:	ENVIRONMENTAL ENGINE	DISCOVERED:	12/31/97 16:00
TELEPHONE:	614-881-4703	OCCURRED:	/ / 0
AFFILIATION:	COMPANY		

DID SPILLER REPORT? Y COMPLAINT? N PRIORITY: 2

SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH 43460
TELEPHONE: 419-666-2455

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: LEAK
REASON: DAMAGED EQUIPMENT
LATITUDE: 0 LONGITUDE: 0 WATERWAY AFFECTED: TRIBUTARY TO MAUMEE RIVER
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

REMARKS

CALLER REPORTED THAT THEY HAD A GASOLINE SPILL BECAUSE OF THE GASOLINE DISPENSER WAS LEAKING.

GERBER CALLED AND REPORTED THAT GASOLINE IS FREEZING IN THE ICE AND THAT COUSINS IS GOING TO DO THE PRODUCT RECOVERY. PHIL'S PAGER # 937-391-5282, CHIEF VERDA OF FD @ 419-536-4629 WILL SHOW THE CONTRACTOR WHERE TO CLEANUP. EMA TOM BENTLEY OR ERIC LARSON COULD ALSO ASSIST. I CALLED PHIL AND GAVE HIM THE SPILL #.

SUSPECTED RELEASE REPORT

REPORT #8 1 7 1 7 1 0 1 0 1 8 1 1 - 0 0 1 _ _ _ _ _ DATE: 12-31-97

[1] PERSON REPORTING THE RELEASE — TIME: 1955

NAME: MIKE GERBER TITLE: ES II PHONE: (419) 351 3867
AGENCY/COMPANY: OEPA RELATION TO SITE: RESPONDER
ADDRESS: CITY: BOWLING GREEN ST: OH ZIP:
REMARKS:

[2] SUSPECTED RELEASE LOCATION

MULTIPLE SUSPECTED SOURCES? ___ YES _X_ NO ___ UNDETERMINED COUNTY: WOOD
FACILITY: SPEEDWAY # 3642 (CASTOWN) FACILITY ID#: 870087
ADDRESS: 939 RIVER RD
CITY: ROSSFORD ST: OH ZIP: 43460 PHONE: (419) 666 5230
UST OWNER: EMRO MARKETING PHONE: (800) 255 6690
UST OPERATOR: EMRO MARKETING PHONE: ( )
REMARKS: He advised that maintenance people were there today and discovered product under the dispenser pan.

INC # 8770081-001(01)(02)

FIRE DEPT: ROSSFORD CONTACT: JOHN VEDRA PHONE: (419) 666 0210

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (Check all that apply)

____ Inventory control results indicate a release may have occurred.
____ Testing, monitoring or sampling results indicate a release may have occurred.
____ Unusual operating conditions observed (e.g., sudden drop in tank volume).
_X_ Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).
____ Spill or overfill of petroleum in excess of 25 gallons.
____ Soil/Groundwater contamination discovered during non-closure related investigation.
____ Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS:

*******COMPLETE REVERSE SIDE*******

[10] REPORT DISPOSITION (Indicate actions taken on reverse side)

TAKEN BY: Rhoades / Ord EMERGENCY ACTION? _X_ YES ___ NO BY: __ FM _X_ OEPA (Gerber NWDO
COORD: REPORT/ACTION APPROVED: DATE:
ENTERED BY: DATE:
CIRCLE STATUS: RPT SUS DIS (CON) ICA ICR PRIORITY: (1) 2 CLASS: A B C (D) LTF: (1) 2 6
ICC SAS SAC CAS CAP NFA OTHER:

==========824==========
1/01/98 7:40A
==========
12/31/97 7:54P
12/31/97 8:04P
MESSAGE #77 CONT...
PAGING O/C
--------12/31/97 8:04P 6 ----------
DELIVERED TO: VERN
==========
12/31/97 7:53P
12/31/97 8:04P
Emergency Y/N?:Y
IF NO ADVISE CALLER TO CALL BACK
DURING OFFICE HOURS:Y
Caller : MIKE GERBER
Area/Ph#: 419 351 3867
Are you reporting a spill, release or
hazmat Emergency? Y/N:Y
Are you asking for assistance from
bureau? Y/N:Y
SEE DISPATCH INSTRUCTIONS:Y
Location of incident:ROSSFORD FIRE DEP
419 666 5230
City/County: WOOD COUNTY
DESCRIPTION OF INCIDENT: GAS IN STORM
SEWER SYSTEM, TANK ALARM AT SPEEDWAY
GAS STATION, PROBABLE LEAK IN
UNDER-GROUND TANK. PLEASE RESPOND
12/31/97 7:54P 48 ,,,5202811
==========
12/31/97 12:17P
12/31/97 12:17P
Emergency Y/N?:WRONG NUMBER
IF NO ADVISE CALLER TO CALL BACK
DURING OFFICE HOURS:
Caller :
Area/Ph#:
Are you reporting a spill, release or
hazmat Emergency? Y/N:
Are you asking for assistance from
bureau? Y/N:
SEE DISPATCH INSTRUCTIONS:
Location of incident:
City/County:
DESCRIPTION OF INCIDENT:
==========824==========

********** END OF MESSAGES **********

SUSPECTED RELEASE REPORT

REPORT #18171010181 1 1 01 1 FY19R1 ADDED RELEASE DATE: 12-31-97

[1] PERSON REPORTING THE RELEASE TIME: 1955

NAME: MIKE GERBER TITLE: ES II PHONE: (419) 351 3867
AGENCY/COMPANY: OEPA RELATION TO SITE: RESPONDER
ADDRESS: CITY: BOWLING GREEN ST: OH ZIP:
REMARKS:

[2] SUSPECTED RELEASE LOCATION

MULTIPLE SUSPECTED SOURCES? ___ YES X NO ___ UNDETERMINED COUNTY: WOOD
FACILITY: SPEEDWAY # 3642 (EASTOWN) FACILITY ID#: 870087
ADDRESS: 939 RIVER RD
CITY: ROSSFORD ST: OH ZIP: 43460 PHONE: (419) 666 5230
UST OWNER: EMRO MARKETING PHONE: (800) 255 6690
UST OPERATOR: EMRO MARKETING PHONE: ( )
REMARKS: He advised that maintenance people were there today and discovered product under the dispenser pan.

INC # 8770081-00(01)(02)
FIRE DEPT: ROSSFORD CONTACT: JOHN VEDRA PHONE: (419) 666 0210

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (Check all that apply)

____ Inventory control results indicate a release may have occurred.
____ Testing, monitoring or sampling results indicate a release may have occurred.
____ Unusual operating conditions observed (e.g., sudden drop in tank volume).
X Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).
____ Spill or overfill of petroleum in excess of 25 gallons.
____ Soil/Groundwater contamination discovered during non-closure related investigation.
____ Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS:
SITE ALREADY IN BUSTR CORRECTIVE ACTIONS DUE TO PREVIOUS CLOSURE SOIL EXCEEDING ACTION LEVELS. THIS RELEASE INFO APPEARS TO HAVE BEEN CAUSED BY & ORIGINATING FROM THE DISPENSER AREA THAT WAS "HOT" AT CLOSURE — RCK map 3/11/02

*******COMPLETE REVERSE SIDE*******

[10] REPORT DISPOSITION (Indicate actions taken on reverse side)

TAKEN BY: Rhonda / Ord EMERGENCY ACTION? X YES __ NO BY: FM X OEPA (Gerber NWDO
COORD: CCCA REPORT/ACTION APPROVED: Ord DATE: 1-5-97
ENTERED BY: DATE:

CIRCLE STATUS: RPT SUS DIS (CON) ICA ICR PRIORITY: 1 (2) CLASS: A B C (D) LTF: (1) 2 6
ICC SAS SAC CAS CAP NFA OTHER:

OHIOEPA

State of Ohio Environmental Protection Agency

P.O. 1049, WaterMark Drive
Columbus, Ohio 43216-1099
(614) 644-3020
Fax (614) 644-3250

George V. Voinovich
Governor

FACSIMILE INFORMATION

ROUTE TO: "BOR" Rhodes PHONE #_____

COMPANY NAME: RUSTR

COMPANY FAX NUMER:_____

FROM: "ER"

NUMBER OF PAGES:_____ (INCLUDING THIS PAGE)

OHIO EPA FACSIMILE NUMBER 614-644-3250

OFFICE NUMBERS

(✓) 614-644-3196 (ER)
( ) 614-644-3042 (SIU)
( ) 614-644-3063 (PCB)
( ) 614-644-2924 (DERR)
( ) 614-644-2260 (SERC/RTK)

SPECIAL INSTRUCTIONS:_____

SENDERS INFORMATION: (AFTER TRANSMISSON) ORIGINAL SHOULD BE:

( ) DISCARDED OR ( ) PICKED-UP:

RECEIVER: IF YOU DO NOT RECEIVE THE NUMBER OF PAGES SPECIFIED ABOVE OR RECEIVE POOR COPY, PLEASE NOTIFY US.

NOTE TO RECEIVER:

Revised 1/14/97

OhioEPA INITIAL POLLUTION INCIDENT REPORT

SPILL I.D #: 9712-87-4975 **DISTRICT: NW**

REPORTED BY:	FAYE BALSMEYER	REPORTED:	12/31/97 19:11
TITLE:	DISPATCHER	DISCOVERED:	12/31/97 18:36
TELEPHONE:	419-666-5230	OCCURRED:	/ /
AFFILIATION:	FD		

DID SPILLER REPORT? N COMPLAINT? N PRIORITY: 2

SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH
TELEPHONE:

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: UNKNOWN
REASON: UNKNOWN REASONS
LATITUDE: LONGITUDE: WATERWAY AFFECTED:
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

REMARKS

DISPATCHER REPORTED THAT THERE IS A STRONG ODOR OF GASOLINE IN THE SEWER WHICH THEY THINK IS COMING FROM THE SPEEDWAY GAS STATION.

OSC GERBER NOTIFIED

JAY JONES OF WTOL TV CALLED 1/1/98 AND ASKED IF THERE WERE ANY CONTAMINATION TO THE CREEK I TOLD HIM THAT THE GAS WAS FREEZING IN THE ICE AND COUSINS WERE DOING PRODUCT RECOVERY 1/1/98.

12-31-97 755 PM

(265) 3500 08244

Mike Garber OEPA
(419) 351 3867

Reporting Hay Mart
Rossford F.D. Wood Co.
(419) 666 5230

Gas in storm sewer system
"Unit ID 3642" "Speedway" Suspected Source
(419) 666 4255

Maintenance People there today.
Product under Dispenser Pan

Grassy Creek has product in it.
Apartment has fumes.

Will put hand aide

DIVISION OF STATE FIRE MARSHAL
BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS

FIELD ACTIVITY REPORT

Site No.870081-04~~/~~03

Date: January 2, 1998 Time: 07:58
Weather: Clear
County: Wood Temperature:40 °F

Site Name: **Speedway #3624 (Gastown)**
Location: **939 River Rd., Rossford, Ohio 43460**
Personnel:
BUSTR: RHOADES
Other: GERBER (OEPA) PHIL PAVLOVICZ (EMRO)

Purpose of Visit:Report from Mike Gerber (OEPA DERR) concerning free product in the creek next to the site

---

Findings/Actions: Gerber responded on 12/31/97 @ 1955 hrs. on a report of free product in the creek next to the property. Rhoades responded on 1/2/98 arrived on the scene @ 1100. Phil Pavlovicz of EMRO was on site supervising Cousins Environmental doing cleanup in the creek and storm sewer. Tanknology was doing a precision test on the systems. Maintenance found a leaking filter on the north pump. There was also a line leak detector problem. A 48" tile runs under the property and carried the product to the creek. It was steam cleaned by Cousins.

Recommendations: Continued monitoring of the site depending on the outcome of the precision test.

Prepared by:
Date:

Speedway SUPERAMERICA.

Speedway SuperAmerica LLC
P. O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873
Fax 937-323-9278

August 13, 1998

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081 - ESP
01

Dear Mr. Thompson:

Please find enclosed the site assessment report for the above referenced site. The site assessment was completed as a result of an earlier release involving a leak from a dispenser filter which overflowed a containment sump.

Two additional soil borings were completed in addition to one boring and a monitoring well completed during an earlier investigation (ATC Associates, July, 1997). Detectable hydrocarbon concentrations were encountered in one boring (ES-2), however all concentrations were below Category 2 action levels.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

1998 AUG 17 P 12:07
BUSTR

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942

George V. Voinovich
Governor

Donna Owens
Director

December 22, 1997

PHIL PAVLOVICZ
EMRO MARKETING CO
PO BOX 1500
SPRINGFIELD OH 45501

SITE: SPEEDWAY #3642
939 EAST RIVER RD
ROSSFORD OH
WOOD COUNTY
INCIDENT #8770081-01

RE: SITE ASSESSMENT REQUIRED

Dear Mr. Pavlovicz:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment" dated October 31, 1997. BUSTR has determined that soil and/or ground water contamination exists in excess of the action levels calculated for this site. You are required to perform a site assessment as prescribed in Ohio Administrative Code 1301:7-9-13(I)(3) and explained in BUSTR's *Corrective Action Guidance Document.* These documents describe the activities that must be performed during the site assessment and the information which is to be submitted to BUSTR in the site assessment report. You must submit the site assessment report within 180 days of the day the release was reported.

All excavated soils shall be managed as petroleum contaminated soils (PCS) unless laboratory analysis indicates otherwise. Underground storage tank owners and/or operators are therefore requested to complete and submit a "Soil Disposal/Treatment Notification Form". The completion of this form, along with all applicable supporting information and documentation, will allow the BUSTR staff to verify proper PCS disposal. A separate form must be completed for each soil pile or containerized soil group.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5122.

Sincerely,

Paul D. Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, Wood County Health Department

CLOSURE ASSESSMENT REVIEW

OWNERSHIP OF TANKS	LOCATION OF TANKS
EMRO MARKETING CO.	SPEEDWAY # 3642
PO BOX 1500	939 E. RIVER RD.
SPRINGFIELD OH 45501	ROSSFORD OH
	WOOD COUNTY
ATTN: PHIL PAVLOVICZ	INCIDENT # 877008/-01

SYSTEM INFORMATION — Report Received Date: 11-19-, 1997

Removal/Abandonment Date: 7-9 & 7-15, 1997					STATUS		
TANK NO.	AGE	CAPACITY	MATERIAL	PRODUCT	TANK	PIPE	DISP
1		550	STEEL	W/O	Rm	N/A	N/A
2		6000	FRP	GASOLINE	still in use	Rm	Rm
3		6000	FRP	GASOLINE	still in use	Rm	Rm
4		8000	FRP	GASOLINE	still in use	Rm	Rm
5							
6							

Laboratory analytical results (highest results)

Benzene	1,700	ug/kg
Toluene	19000	ug/kg
E-benzene	11000	ug/kg
Xylene	76000	ug/kg
TPH	1000	mg/kg

SFSS Category 1 2 (3) 4 (CIRCLE ONE)

Overexcavation: Yes (No) BUSTR Approval: Yes / No

Other analytes or comments: _____

Site Management Remarks: GASOLINE PIPING & DISPENSERS REMOVED & REPLACED. W/O UST REMOVED

STATUS: RPT ___ NFA ___ (ICR) ✓ Priority 2 Classification 0 LTF (1) 6 ___ Site Coordinator CA

Reviewed By: PDI Date: 12/18/97

Approved By: Kelly Gillis Date: 12/18/97

Entry By: D. Stover Date: _____

Effective Date June 22, 1994

Emro Marketing Company

P.O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873

8770081-01

November 14, 1997

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081-01

97 NOV 19 A 8:01

Dear Mr. Thompson:

Please find enclosed the UST system line and dispenser closure, used oil UST closure and site assessment report for the above referenced site. The site assessment was completed as a result of an earlier suspected release involving vapors in a storm sewer line beneath the site, and was done in conjunction with site remodeling.

The storm sewer line at this site runs directly beneath the dispenser islands (Figure 2). During product line and dispenser replacement, it was found that the backfill used in the sewer line trench was composed primarily of construction debris and other highly permeable materials such as sand and gravel. A small product line leak directly over this area (adjacent to the dispenser island) traveled directly down into the storm sewer and resulted in elevated hydrocarbon vapors in the storm line. During the construction activities it was noted that soils immediately adjacent to the backfill material were not affected to any great extent by petroleum constituents. This act is shown by the low concentrations encounterd in the soil boring logs. The impacted backfill was left in place, as removal would have constituted over-excavation.

Groundwater was only encountered in one boring during the site assessment and only one monitoring well (MW-1) was installed. Groundwater from this well did not contain detectable levels of petroleum hydrocarbons. Samples from all soil borings indicated that the soils outside the sewer line trench were below the Category 3 action levels, with soils composed mainly of silty clay.

The source of the contamination was removed with the upgrade of the product lines and dispensers and subsequent installation of spill protection and dispenser pans. With the source removed, remaining contamination in the very permeable backfill of the storm sewer line trench will most likely bio-attenuate over a relatively short period of time.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

[4] *RELEASE INFORMATION*

DATE FIRST DETECTED:_____ TIME: _____ EST. QUANTITY: _____

SUBSTANCE RELEASED/DETECTED: ___ GASOLINE ___ DIESEL FUEL ___ KEROSINE ___ USED OIL

___ OTHER PETRO ___ HAZ SUBST ___ UNKNOWN EST. DURATION: _____

MEDIA EFFECTED (*Check all that apply*): ____ SOIL ____ PAVEMENT ____ BASEMENT ____ SEWERS

____ GROUNDWATER ____ SURFACE WATER ____ OTHER:_____ LTF

ELIGIBLE? ____ YES ____ NO *If no, why?*:_____

[5] *UST INFORMATION*

FACILITY REGISTRATION CURRENT? __ YES __ NO __ UNKNOWN (*Attach USTR's for all facilities*)

NUMBER OF TANKS:____ RELEASE DETECTION METHOD:_____

AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS	AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS
31	6000	~~STEEL~~ FRP	GAS	CIU	31	550	FRP	WASTE	REM
31	6000	FRP	GAS	CIU					
31	8000	FRP	GAS	CIU					

PROBABLE LOCATION OF RELEASE: TANK NO.__ PIPE BETWEEN _____ AND _____

PROBABLE CAUSE:_____

OTHER POTENTIAL SOURCES AT THIS LOCATION:_____

[6] *SITE/HAZARD INFORMATION*

IMPORTANT SITE OR SURROUNDING AREA CHARACTERISTICS:_____

_____

PROXIMITY TO DRINKING WATER SOURCES:_____

_____

OTHER FIRE/WATER/HEALTH HAZARDS AT THE SITE:_____

_____

[7] *INITIAL RESPONSE ACTIONS BY OWNER/OPERATOR* (*Check all that apply*)

____ Release confirmation/Investigation
____ Initial corrective action procedures
____ Free product removal
____ Long term corrective action plan
____ Initial site investigation
____ Site/Assessment/Exposure Assessment
____ Unknown/undetermined
____ None

[8] WERE ANY OTHER AGENCIES NOTIFIED PRIOR TO BUSTR? (*As Reported*)

AGENCY:_____ NAME:_____ DATE:_____

[9] *BUSTR ACTIONS TAKEN*

CALLS TO: FD, LHD, LPW, ODH, OEPA/ER, OEPA/DPDW, OEPA/DGW, OTHER

REPORT INFORMATION

ACTIVITY	REPORTED INFORMATION		DATE RESOLVED
	YES	DEFICIENT	
FIELD			
Field screening methods/numbers	✓		
Field screening readings	✓		
SAMPLING			
Container/equipment/preservation	✓		
Sampling methods/tools	✓		
Locations/numbers of samples	✓		
Samples split for screen/lab	✓		
Water evacuation/24 hour wait	N/A		
LABORATORY			
Correct samples submitted	✓		
Chain of custody	✓		
Analyzed within holding time	✓		
Test methods/detection limits	✓		
Lab reports (date, analyst)	✓		
REPORT			
Owner, operator, facility information	✓		
Closure form complete (signed)	✓		
Wastewater and UST contents disposal	✓		
UST system disposal	✓		
Site map of facility and area	✓		

WASTE DISPOSAL INFORMATION

Laboratory analytical results (highest results)

Benzene < 5 ug/kg

Toluene < 5 ug/kg

E-benzene < 5 ug/kg

Xylene < 10 ug/kg

TPH < 10 mg/kg

Quantity 157 cubic yards/tons

Acceptable soil disposal (Yes) / No

Used as backfill ____

Landfill or remediation X

Stockpiled on-site ____

Location: _____

Comments: _____

Deficiency letter(s) sent: 1. _____, 19__ 2. _____, 19__

ROUTING AND CONCURRENCE SLIP

INCIDENT #:	8770081-01	DATE AUTHOR PREPARED:	12-18-97	
DATE OF REQUEST:		PROOF AND/OR CONCUR:	DATE	INITIAL
NAME OF SITE:		PIA NAME:		
REQUESTED BY:		AUTHOR NAME: Thompson	12-22-97	POT
ROUTE FROM:		SUPERVISOR NAME:		
ROUTE TO:		ROUTE TO:		
ROUTE TO:		ROUTE TO:		
COORDINATOR NAME:		ROUTE TO:		
	PREPARE A RESPONSE			
	STATUS UPDATE			
	FYI			
RESPOND BY DATE:				
BOILERPLATE NAME:	SADIR	DATE LETTER MAILED:	12-23-97	POT
REMARKS:				

I:\CORRECTV\LETTERS\MERGE\ROUTCONC

Speedway LLC
500 Speedway Drive
Enon OH 45323
Telephone 937- 864-3000

RECEIVED
FEB 17 2015
SFM/BUSTR

FEDEX EXPRESS SAVER = 7728 8490 4437

February 11, 2015

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

Tier 3 Evaluation Report
Speedway Store #3642
939 Dixie Highway
Rossford, Ohio
Lucas County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Enclosed please find the *Tier 3 Evaluation Report* as prepared by our consultant, Cardno ATC for the above-referenced site. The Tier 3 model calibration was performed to determine a Site Specific Target Level (SSTLs) for methyl tertiary butyl ether (MTBE) groundwater ingestion pathway and address the remaining exposure pathway. The report presents the results of the groundwater monitoring events conducted on August 12, and November 11, 2014, soil sampling results from August 13, 2014 and results of the Tier 3 Evaluation. Tier 3 activities, groundwater and soil sampling were conducted in accordance with the *Supplemental Tier 3 Work Plan* dated July 25, 2011, approved by the Bureau of Underground Storage Tank Regulations (BUSTR) on June 28, 2012 **(Appendix A)**. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) pre-approval letter was received on September 2, 2011 and correspondence is provided in **Appendix A**.

The Tier 3 Evaluation, groundwater monitoring and sampling, and additional soil borings were performed in order to further evaluate the Groundwater Ingestion Pathway and address the remaining MTBE groundwater concentrations above SSTLs following the Interim Response Action (IRA) groundwater remedial events completed in 2009. The groundwater analytical results demonstrated that chemical of concern (COC) concentrations were in a stable and/or decreasing trend, and concentrations were below the Tier 2 SSTLs with the exception of MTBE. The MTBE fate and transport model was calibrated to determine a more appropriate SSTL using site specific half-life and hydraulic conductivity values. Groundwater analytical results were below the new MTBE SSTL indicating no further evaluation of the pathway was necessary. The soil analytical results were below the SSTLs/Tier 1 Action Levels and no exposure pathways require further evaluation.

Speedway respectfully requests BUSTR approval of the Tier 3 Evaluation. Based on results of the evaluation, a No Further Action (NFA) designation is requested for the site release. If you have any questions or concerns, please do not hesitate to contact me at (937) 863-7667.

Sincerely,
SPEEDWAY LLC

Ryan Sabol
Environmental Representative

cc: Jim Detgen – Senior Project Manager (Cardno ATC)
Kim Kroenke –Project Manager (Cardno ATC)
Cherie Howell – Project Scientist (Cardno ATC)
Remediation File #3642 – w/encl.
Reimbursement File#3642 – w/encl

RECEIVED
SEP 29 2014
SFM/BUSTR

Speedway LLC
500 Speedway Drive
Enon OH 45323
Telephone 937- 864-3000

FedEx # 7712 8996 8058

September 25, 2014

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Extension Request to Continue Corrective Actions under 1999 Rules
Speedway Store #3642
939 Dixie Hwy
Rossford, OH 43460
Wood County
BUSTR Release #87000087-N00002

Dear Mr. Krueger:

This letter has been prepared to formally request an extension to continue corrective actions under Ohio Administrative Code (OAC) 1301:7-9-12, effective July 1999, and OAC 1301:7-9-13, effective March 31, 1999 (i.e. Corrective Action (CA) Rule) for the referenced release. Speedway LLC (Speedway) believes good cause exists to continue corrective actions under the 1999 CA Rule beyond the current October 1, 2014 deadline specified in Section 3.2 of the 2012 CA Rule, effective July 1, 2012 as described below:

- Currently, the site is in the Tier 3 Evaluation phase. The first of two quarterly groundwater sampling events has been completed in an effort to aid in developing solute half-life for MTBE. On August 13, 2014, Shelby tubes were collected for geotechnical analysis. The Tier 3 Evaluation Report is due September 30, 2014.

Our environmental consultant, Cardno ATC has estimated a timeframe of two (2) years will be needed. **Speedway is respectfully requesting an extension until October 1, 2016 to continue to conduct corrective actions in accordance with the 2005 CA Rule for this release**. If you have any questions or concerns, please do not hesitate to call me at (937) 863-7667.

Sincerely,
SPEEDWAY LLC

Ryan T Sabol
Environmental Representative

cc: Mr. James Detgen – Cardno ATC
Ms. Kim Kroenke – Cardno ATC
Ms. Starr Richmond - PUSTRCB
Remediation File # 3642
Reimbursement File # 3642

EVERYTHING BELOW THIS PAGE HAS BEEN SCANNED.

Speedway LLC
500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

RECEIVED
JUL 05 2013
SFM/BUSTR

FedEx 2nd Day – 7961 4298 8556 –

July 2, 2013

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Public Notice
Speedway Store #3642
939 Dixie HWY
Rossford, Ohio
Wood County
BUSTR Release #: 87000087-N00002
(OAC *1301:7-9-13*, March 1999)

Dear Mr. Krueger:

On July 25, 2011, a *Proposed Tier 3 Evaluation Plan* was submitted to the Bureau of Underground Storage Tank Regulations (BUSTR) for the above referenced site. In a letter dated June 28, 2012 (**Attachment A**), BUSTR approved the submitted *Proposed Tier 3 Evaluation Plan* and therefore, Speedway contacted a widely distributed newspaper in the locality in which the site is located to publish a Public Notice. The Public Notice for the *Proposed Tier 3 Evaluation Plan* was published by The Rossford Record Journal for three (3) consecutive weeks beginning on May 2, 2013, as required by the BUSTR *Technical Guidance Manual* (March 1999). A Proof of Publication containing a copy of the notice is provided in **Attachment B**.

If you have any questions or concerns, please do not hesitate to call me at (937) 863-7667.

Sincerely,

SPEEDWAY LLC

Ryan T. Sabol
Environmental Representative

Attachments: BUSTR Correspondence and Proof of Publication
cc: Mr. James S. Detgen – Senior Project Manager (Cardno ATC)
Ms. Kim Kroenke – Project Manager (Cardno ATC)
Mr. Daniel King – Staff Geologist (Cardno ATC)
Remediation File #3642

ATTACHMENT A

BUSTR CORRESPONDENCE

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

June 28, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER 3 EVALUATION PLAN APPROVAL

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Supplemental Tier 3 Work Plan" dated July 25, 2011. BUSTR has determined that the proposed plan is appropriate and grants approval to implement the plan. Ohio Administrative Code 1301:7-9-13(O), effective March 1999, describes your responsibilities for implementing the plan.

BUSTR notes that your work plan (see the last paragraph of section 5.3) states that only one quarter of groundwater monitoring will be performed to verify the MTBE concentrations and to validate the model. BUSTR believes that, depending on the results of your MTBE degradation rate calculations, additional groundwater monitoring may be necessary to validate the Bioscreen predictions.

All changes to the plan must be submitted to and have prior approval from BUSTR. If conditions warrant, BUSTR may require modification of the plan. A tier evaluation report summarizing the activities conducted and the results of the Tier 3 decisions shall be submitted within 90 days of the completion of the Tier 3 evaluation.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx *or* by calling our office.

Thank you for your cooperation. If you have any questions, please call me at (614)728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
James Detgen - ATC Associates
Donna Kestler - PUSTRCB

Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, OH 43068 U.S.A.

614 | 752 7938
Fax 614 | 752 7942
TTY/TDD 800 | 750 0750
www.com.ohio.gov

An Equal Opportunity Employer and Service Provider

ATTACHMENT B

PROOF OF PUBLICATION

PUBLIC NOTICE
Division of the State Fire Marshal
Bureau of Underground Storage Tank Regulations

Pursuant to the rules governing the remediation of releases of petroleum from underground storage tank (UST) system(s), notice to the public is required if a proposed Tier 3 Evaluation plan is submitted to the Bureau of Underground Storage Tank Regulations (BUSTR). Notice is hereby given that a proposed Tier 3 Evaluation plan has been submitted for the UST system(s) located at:

SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD, OH
WOOD COUNTY
Release #87000087-N00002

A proposed Tier 3 Evaluation plan dated July 25, 2011, was submitted by the owner and/or operator of the UST system(s) for the review and approval of the State Fire Marshal (SFM). Once the SFM has reviewed and approved the proposed Tier 3 Evaluation Plan, the owner and/or operator of the release will be required to implement the proposed plan.

A copy of the proposed Tier 3 Evaluation Plan, as well as other documentation relating to this release and the UST system(s) involved, is maintained by the BUSTR, and are available for inspection and copying by the public. Please make all requests for copies or for inspection of the proposed Tier 3 Evaluation Plan and other related documentation in writing to BUSTR, P.O. Box 687, Reynoldsburg, Ohio 43068.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx or by calling our office.

The SFM will accept written comments on this proposed Tier 3 Evaluation Plan for a period of 21 days from the date of publication of this notice. You may submit any comments regarding this site and the proposed Tier 3 Evaluation Plan, in writing, at the above address. For further information, please contact Rick Krueger at (614) 728-5120. Please reference release #87000087-N00002 when making all inquiries or comments.

Published in the Rossford Record Journal, issues of May 2, 9 and 16, 2013.

F OF PUBLICATION

The State of Ohio
County of Wood } ss

John B. Welch, being first fully sworn, says he is the owner and publisher of the Rossford Record Journal, a weekly newspaper published in Perrysburg, Ohio, and of general circulation in Wood County and vicinity; and that the annexed notice was published in said paper for THREE consecutive weeks beginning on 2nd day of MAY, 2013.

John B. Welch

Sworn to and subscribed before me this 29th day of MAY, 2013.

Denise L Current
Notary Public, Wood County, Ohio

NOTARY PUBLIC STATE OF OHIO

DENISE L. CURRENT
Notary Public, State of Ohio
My Comm. Expires Aug. 31, 2016

Description of notice
PUBLIC NOTICE - DIVISION OF THE STATE FIRE MARSHAL BUREAU of Underground STORAGE TANK Regulations

Printer's Fee $207.00

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

October 16, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: CORRECTIVE ACTION RULE DETERMINATION

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your letter dated September 27, 2012 requesting to continue corrective actions using Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999. BUSTR has determined that justification exists to continue conducting correction actions pursuant to OAC 1301:7-9-13, effective March 1999 and therefore approves your request. If the required corrective action activities are not completed by October 1, 2014, this site will automatically be moved into OAC 1301:7-9-13, effective July 1, 2012, unless an additional extension is granted.

Thank you for your cooperation. If you have any questions, please contact Rick Krueger at (614) 728-5120.

Sincerely,

Verne A. Ord
Assistant Chief – BUSTR
Division of State Fire Marshal
Ohio Department of Commerce

xc: Site File
Donna Kestler - PUSTRCB
James Detgen - ATC Associates

Speedway LLC

500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

RECEIVED
SEP 28 2012
SFM/BUSTR

FedEx #7990 6385 6450

September 27, 2012

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Extension Request to Continue Corrective Actions under 1999 Rules
Speedway Store #3642
939 Dixie Highway
Rossford, OH 43460
Lucas County
Release #87000087-N00002

Dear Mr. Krueger:

This letter has been prepared to formally request an extension to continue corrective actions under Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 (i.e. Corrective Action (CA) Rule) for the referenced release. Speedway LLC (Speedway) believes good cause exists to continue corrective actions under the 2005 CA Rule beyond the October 1, 2012 deadline specified in Section 3.2 of the 2012 CA Rule, effective July 1, 2012 as described below:

- A Tier 3 Work Plan was approved by BUSTR on June 28, 2012 and Speedway is in the process of implementing that plan.

Our environmental consultant, ATC Associates Inc. (ATC) has estimated a timeframe of approximately two (2) years will be needed to complete the Tier 3 Activities. **Speedway is respectfully requesting an extension until October 1, 2014 to continue to conduct corrective actions in accordance with the 1999 CA Rule for this release.**

If you have any questions or concerns, please do not hesitate to call me at (937) 863-6513.

Sincerely,
SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Mr. James Detgen – ATC Associates Inc.
Ms. Kimberly Kroenke – ATC Associates Inc.
Ms. Starr Richmond – PUSTRCB
Remediation File # 3642
Reimbursement File #3642

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

June 28, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER 3 EVALUATION PLAN APPROVAL

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Supplemental Tier 3 Work Plan" dated July 25, 2011. BUSTR has determined that the proposed plan is appropriate and grants approval to implement the plan. Ohio Administrative Code 1301:7-9-13(O), effective March 1999, describes your responsibilities for implementing the plan.

BUSTR notes that your work plan (see the last paragraph of section 5.3) states that only one quarter of groundwater monitoring will be performed to verify the MTBE concentrations and to validate the model. BUSTR believes that, depending on the results of your MTBE degradation rate calculations, additional groundwater monitoring may be necessary to validate the Bioscreen predictions.

All changes to the plan must be submitted to and have prior approval from BUSTR. If conditions warrant, BUSTR may require modification of the plan. A tier evaluation report summarizing the activities conducted and the results of the Tier 3 decisions shall be submitted within 90 days of the completion of the Tier 3 evaluation.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx *or* by calling our office.

Thank you for your cooperation. If you have any questions, please call me at (614)728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
James Detgen - ATC Associates
Donna Kestler - PUSTRCB

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2011 JUL 28 PM 12: 36

Speedway LLC

500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

FedEx 2nd Day – 7973 4333 8542

July 25, 2011

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Supplemental Tier 3 Work Plan**
Former Speedway Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger :

Please find attached a copy of the *Supplemental Tier 3 Work Plan* prepared by our consultants ATC Associates Inc. (ATC) for Former Speedway Store #3642 located at 939 Dixie Highway, Rossford, 43460, Wood County, Ohio. This Supplemental Tier 3 Work Plan provides an outline of activities to improve the data set used in the Tier 3 Evaluation fate and transport modeling that will allow for a better calculation of the site specific degradation rate, complete a hydraulic conductivity evaluation and calibration, and develop a site specific target level (SSTL) for MTBE in groundwater.

Speedway LLC (Speedway) requests your review and approval of this Supplemental Tier 3 Work Plan and the associated cost estimates (**Appendix A**). If you have any questions or concerns, please do not hesitate to call me at (937) 863-6513.

Sincerely,

SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Ms. Cindy Duann, Environmental Claims Supervisor, PUSTRCB
Mr. James Detgen, Senior Project Manager, ATC Associates, Inc.
Ms. Cherie Howell, Project Scientist, ATC Associates, Inc.
Remediation File # 3642

ATC ASSOCIATES INC.
Engineering Individual Solutions

8100 Snowville Road
Brecksville, OH 44141-3478
440-838-7177
Fax 440-838-7181
www.atcassociates.com

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2011 JUL 28 PM 12:36

July 25, 2011

Mr. Eric M. Swaisgood
Environmental Representative
Speedway LLC
500 Speedway Drive
Enon, Ohio 45323

Re: **Supplemental Tier 3 Work Plan**
Former Speedway LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
BUSTR Release #87000087-N00002

Dear Mr. Swaisgood:

ATC Associates Inc. (ATC) is pleased to provide this *Supplemental Tier 3 Work* Plan to Speedway for environmental activities related to the corrective actions at the above referenced site. This Tier 3 Work Plan is proposing a strategy to perform Tier 3 Evaluation, calculate a site specific degradation rate, conduct a hydraulic conductivity evaluation and calibration, update the fate and transport modeling, and develop a site specific target level (SSTL) for MTBE in groundwater.

Please review this *Supplemental Tier 3 Work Plan* and the associated cost estimates (**Appendix A**) for your approval. If you have any questions or concerns, please do not hesitate to call me at (440) 838-7177.

Sincerely,
ATC Associates, Inc.

Cherie Howell
Project Scientist

Jim Detgen
Senior Project Manager

cc: Mr. James Detgen, Senior Project Manager, ATC Associates, Inc.
Ms. Cherie Howell, Project Scientist, ATC Associates, Inc.
Remediation File #3642

ATC ASSOCIATES INC.
Engineering Individual Solutions

8100 Snowville Road
Brecksville, OH 44141-3478
440-838-7177
Fax 440-838-7181
www.atcassociates.com

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2011 JUL 28 PM 12: 36

SUPPLEMENTAL TIER 3 WORK PLAN

Former Speedway LLC Store #3642

939 Dixie Highway
Rossford, OH 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Eric M. Swaisgood
Environmental Representative
SPEEDWAY LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
8100 Snowville Road
Brecksville, Ohio 44141

Project No. 08.75116.0612

Cherie Howell
Task Manager

James Detgen
Senior Project Manager

July 25, 2011

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Appendix A: Supplemental Tier 3 Evaluation Cost Estimate

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway LLC (Speedway) to conduct a Tier 3 Work Plan for Speedway Store #3642 located at 939 Dixie Highway, Rossford, Wood County, Ohio. This Tier 3 Evaluation is proposed following the *Ground Water Sampling Report (Third and Fourth (Final Event)* dated February 22, 2011, and a post Interim Remedial Action as described in *Interim Response Action (IRA) Implementation Report* dated November 17, 2009, which summarized the results of a dual phase extraction remediation system implemented on the site. Refer to **Figure 1 and 2**, Site Location Map and Site Map, respectively, for the general location of the site and a depiction of site features and monitoring well locations.

This Tier 3 Work Plan is proposing to outline a strategy to calculate a site specific degradation rate, conduct a hydraulic conductivity evaluation and calibration, and develop a site specific target level (SSTL) for MTBE in groundwater.

2.0 BACKGROUND

Since the last Tier 2 Addendum report (2006), an additional monitoring well MW-11 was installed, and a IRA dual phase extraction system was run for three (3) months extracting from monitoring wells MW-5 and MW-11. This Tier 3 Work Plan follows those activities and will include the available groundwater analytical data, excluding the IRA dates (September 30, 2009 to January 2010). Since the time of the IRA, it appears that the constituents of concern (CoC) concentrations in groundwater have rebounded for MTBE and are naturally decreasing or stable. Refer to **Tables 1 through 4** for the summary of groundwater analytical data. Refer to **Figure 3,** BTEX/MTBE Groundwater Analytical Map – October 19, 2010, for groundwater analytical data and **Figure 4,** Potentiometric Surface Map – October 19, 2010, for the potentiometric surface map (PSM) developed following the October 19, 2010 groundwater gauging event.

An additional groundwater sampling round is needed for use in the Tier 3 evaluation in order to gather additional CoC trending data to utilize in calculating a site specific degradation rate. A soil boring and sampling is also proposed for geotechnical and analytical sample to be used in the Tier 3 evaluation.

The previous Tier 2 Addendum findings are summarized as follows:

- The site has been delineated to Tier 1 Action Levels in soil and groundwater.
- Tier 2 fate & transport modeling for benzene, ethylbenzene and total xylenes was verified and the original Tier 2 SSTLs would still apply to the site.
- The Tier 2 Groundwater Ingestion SSTLs for benzene, ethylbenzene and total xylenes were not exceeded in any of the samples.
- The fate and transport of MTBE using a no decay solute transport model is overly conservative and does not reflect the fate and transport of MTBE from the source on-site to the nearest receptor. Therefore, a Tier 2 SSTL was not calculated.

Based on the Tier 2 Addendum findings, it will be necessary to further evaluate MTBE in the next phase of modeling for the Groundwater Ingestion Pathway in order to determine an SSTL that reflects actual site conditions. The Tier 3 Methodology Section below provides a detailed discussion of the proposed Tier 3 Plan.

3.0 SOIL BORING/ SOIL SAMPLING ACTIVITIES

It is proposed to conduct a soil sampling event in order to obtain geotechnical data and fraction organic carbon (FOC) data for use in the Tier 3 evaluation. One (1) soil boring will be completed on the site as indicated on **Figure 5,** Proposed Soil Sample Location Map. The soil boring will be located in the area west of MW-10 which is downgradient and outside of the source area. From the soil boring one Shelby Tube (approximately 12-14' from the saturated zone) for geotechnical analysis as well as two analytical samples (approximately 10-12' and 14-16' from the saturated zone) to be analyzed for fraction organic carbon (FOC) by ASTM Method D2974, total petroleum hydrocarbons (TPH) (C6-C12) US EPA Method 8015, and benzene, toluene, ethylbenzene and total xylenes (BTEX) and MTBE US EPA Method 8260B. The geotechnical samples will be submitted to the ATC Laboratory in Indianapolis, Indiana, for bulk dry density, moisture content, permeability, particle size analysis, Atterberg Limits, USCS Classification, specific gravity, porosity, volume air and volume water. Soil samples will be sent to Pace Analytical Laboratories (Pace) for analysis. The new soil data will be reported and used in the Tier 3 fate and transport modeling for MTBE Groundwater Ingestion Pathway.

Soil cross sections will be developed using historical soil boring data in order to better understand the site-wide soils lithology and potential CoC transport with respect to future remediation strategies. The cross sections will be prepared for two transects using the data available in soil boring logs, and groundwater elevation information. The first cross section A-A' will include soil borings data for MW-6, MW-2, MW-4, MW-11, MW-5 and MW-8. The second cross-section will be prepared for transect B-B' using soils data from MW-7, MW-10, MW-4 and MW-1.

4.0 GROUNDWATER SAMPLING PLAN

Two (2) quarterly groundwater sampling events are proposed for the site to provide an additional set of analytical data to be used in the Tier 3 evaluation, as well as a second set of analytical data to be used for validation of assumptions and SSTLs. For each of the groundwater sampling events, all 11 on and off site monitoring wells will be developed and sampled. The analytical samples plus a duplicate will be analyzed for BTEX and MTBE using U.S. Environmental Protection Agency (EPA) Method 8260B at Pace. The analytical results will be presented in the Tier 3 Evaluation Report.

As part of the Tier 3 activities, an additional PSM will be prepared for the site presenting the latest groundwater elevation data.

5.0 TIER 3 METHODOLOGY

In this Tier 3 evaluation analytical data from the proposed sampling events will be used in conjunction with historical data to allow calculation of site specific range of solute half-life values for MTBE as described in Appendix G of the 2005 BUSTR Technical Guidance Manual. The data are also intended to be used to validate BIOSCREEN fate and transport model predictions and for use in calculating a site specific target level for the MTBE Groundwater Ingestion Pathway.

Based on the concentration history and locations of existing wells, monitoring well MW-4 and MW-11 will serve as the source well for MTBE model simulations. Monitoring wells MW-5 and MW-8 appear to be located on the plume centerline and are appropriate point of demonstration (POD) wells for comparison to model simulations. The model assumptions and input parameters will remain similar to the Tier 2 Addendum modeling, with the addition of new site specific geotechnical and FOC data as proposed above. The hydraulic gradient will be determined following the proposed groundwater sampling event. As identified in the October 19, 2010 PSM, groundwater flow has appeared to be to the southwest across the site, which is consistent with the fate and transport modeling approach.

Groundwater historic data (excluding the IRA dates) and analytical results from the proposed groundwater sampling event will be used to calculate site specific solute half life value for MTBE according to the method described in Appendix G.6.2 of the 2005 BUSTR Technical Guidance Manual. The hydraulic conductivity values from the 2003 slug tests will be evaluated according to the method described in Appendix G.6.1 of the 2005 BUSTR Technical Guidance Manual in order to identify appropriate values that could be used in the fate and transport model calibration.

Once the half-life calculations and hydraulic conductivity evaluation described above have been completed, revised BIOSCREEN fate and transport modeling will be performed using the newly determined input parameters. The revised MTBE SSTL for the groundwater ingestion pathway will be derived from the fate and transport modeling activities. Tier 3 Evaluation report documenting the described activities will then be prepared and submitted to BUSTR.

5.1 Calibration using Solute Half-Life Estimates

For the Tier 3 modeling calibration phase, the solute half life will be manipulated based on site specific data according to the BUSTR 2005 Technical Guidance Manual G.6.2. In the Tier 2 evaluation, due to the site being in BUSTR 1999 Rules, a no decay solute transport scenario was required overestimating the dissolved MTBE concentrations that would migrate downgradient and to the nearest receptor.

Graphic plots using MTBE concentrations versus distance will be prepared to assess whether the contaminant plume is shrinking or stable. Data from groundwater wells MW-4, MW-5, MW-8, MW-10, and MW-11 will be included due to the fact that those monitoring wells are either located in the source area or along the centerline of the COC plume. Next the solute half-life will be estimated based on the concentration versus time regression analysis utilizing the first order of decay, in order to estimate the solute degradation rate (k). At least three (3) monitoring wells from the list above with the available analytical data (plus the proposed groundwater sampling event) for at least six (6) sampling events covering a span of three (3) years will be included. The solute degradation rate (k) estimates will be converted to values estimating the solute half-life. Then the allowable values of (t-half) will be determined bounded by the maximum and minimum values. The allowable k values will then be used to calibrate the BIOSCREEN fate and transport model.

5.2 Calibration using Hydraulic Conductivity Estimates

As part of the Tier 3 Evaluation, a hydraulic conductivity evaluation will be conducted in order to determine that the most appropriate hydraulic conductivity of the available data for the Tier 3 MTBE fate and transport BIOSCREEN model. The hydraulic conductivity evaluation will include the available slug test data found in the *Tier 2 Evaluation Report* Parsons Engineering, dated 23 June 2003. Slug tests performed on Feb. 19, 2003, in four (4) wells resulted in hydraulic conductivity values (cm/sec) as follows: MW-4 3.9×10^{-5}; MW-6 3.94×10^{-7}; MW-7 2.18×10^{-5}; MW-8 2.55×10^{-6}. In the Tier 2 evaluation, the most conservative maximum hydraulic conductivity value of 3.9 x 10-5 cm/sec from MW-4 was utilized. It is proposed to calibrate the model by adjusting the hydraulic conductivity (K) within the range outlined in Appendix G.6.1 of the TGM.

To determine the allowable values of (K) that may be used during model calibration, two (2) ranges must be determined. In the first range, the results from the slug test are used to determine the range of (K) values bounded by the maximum and minimum values of (K). In the second range, the geometric mean of (K) is calculated using the results of slug tests, then a range of (K) values is determined bounded by the limits of the mean plus or minus one order of magnitude. The allowable values of (K) that may be used to calibrate BIOSCREEN model for MTBE will be presented.

5.3 Tier 3 Schedule

If this plan is approved by BUSTR and the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB), the Tier 3 Evaluation Report will be prepared to develop a Tier 3 SSTL for MTBE. Prior to the Tier 3 evaluation, the proposed drilling activities and four soil borings will be completed. Soil samples with Shelby Tubes for geotechnical analysis from one boring, and soil samples will be obtained from an additional boring and analyses completed for FOC, TPH (C6-C12), and BTEX and MTBE. In addition, the existing 11 monitoring well network will be sampled prior to the Tier 3 evaluation to have an additional sample for the data set needed to determine the half life solute transport. Groundwater samples will be analyzed for BTEX and MTBE using U.S. Environmental Protection Agency (EPA) Method 8260B. The information mentioned above, which includes geotechnical soil data, analytical soil data, the new groundwater data, and cross-section figures, will be prepared within a Tier 3 Evaluation Report.

Additionally, the environmental covenant will be re-submitted for approval under separate cover. The environmental covenant executed for the site will restrict the site to commercial use only, to restrict future buildings to be built on slab only, and to prohibit potable wells for drinking water use in order to eliminate the Groundwater Ingestion Pathway and the Soil to Drinking Water Leaching Pathway.

An additional quarter of groundwater monitoring data will also be proposed following the Tier 3 evaluation to verify the MTBE concentrations are stable or decreasing and validate the model and calculated SSTLs. If the Tier 3 SSTL for MTBE is not exceeded, then no further action will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be warranted and assessed at that time.

5.4 Estimated Costs for Tier 3 Evaluation

In correspondence dated January 8, 2007, the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) approved costs associated with the Tier 3 Work Plan submitted with the *Tier 2 Addendum #2/Tier 3 Plan* dated December 12, 2006. Based on the revised plans and scope of work described above, ATC has included a revised estimated cost summary spreadsheet as Appendix A, The costs for each task are summarized below. ATC recommends forwarding a copy of this report to PUSTRCB with a request for pre-approval. ATC will initiate the proposed activities as soon as possible following BUSTR and PUSTRCB approval.

Task 1: Drilling/ Soil boring $5,516

- One Soil Boring for Shelby Tube and analytical samples
- Shelby Tube for geotechnical analysis and two analytical samples for FOC ASTM D2974; TPH (C6-C12 US Method EPA 8015); BTEX & MTBE U.S. EPA Method 8260B

Task 2: Two Quarterly Groundwater Sampling Events $5,033

- Sample existing 11 monitoring well network (1 round before Tier 3 evaluation/ 1 round following Tier 3 evaluation) MW-1 through MW-11 plus duplicate (BTEX & MTBE U.S. EPA Method 8260B)

Task 3: Groundwater Monitoring and Sampling Results Reporting $1,480

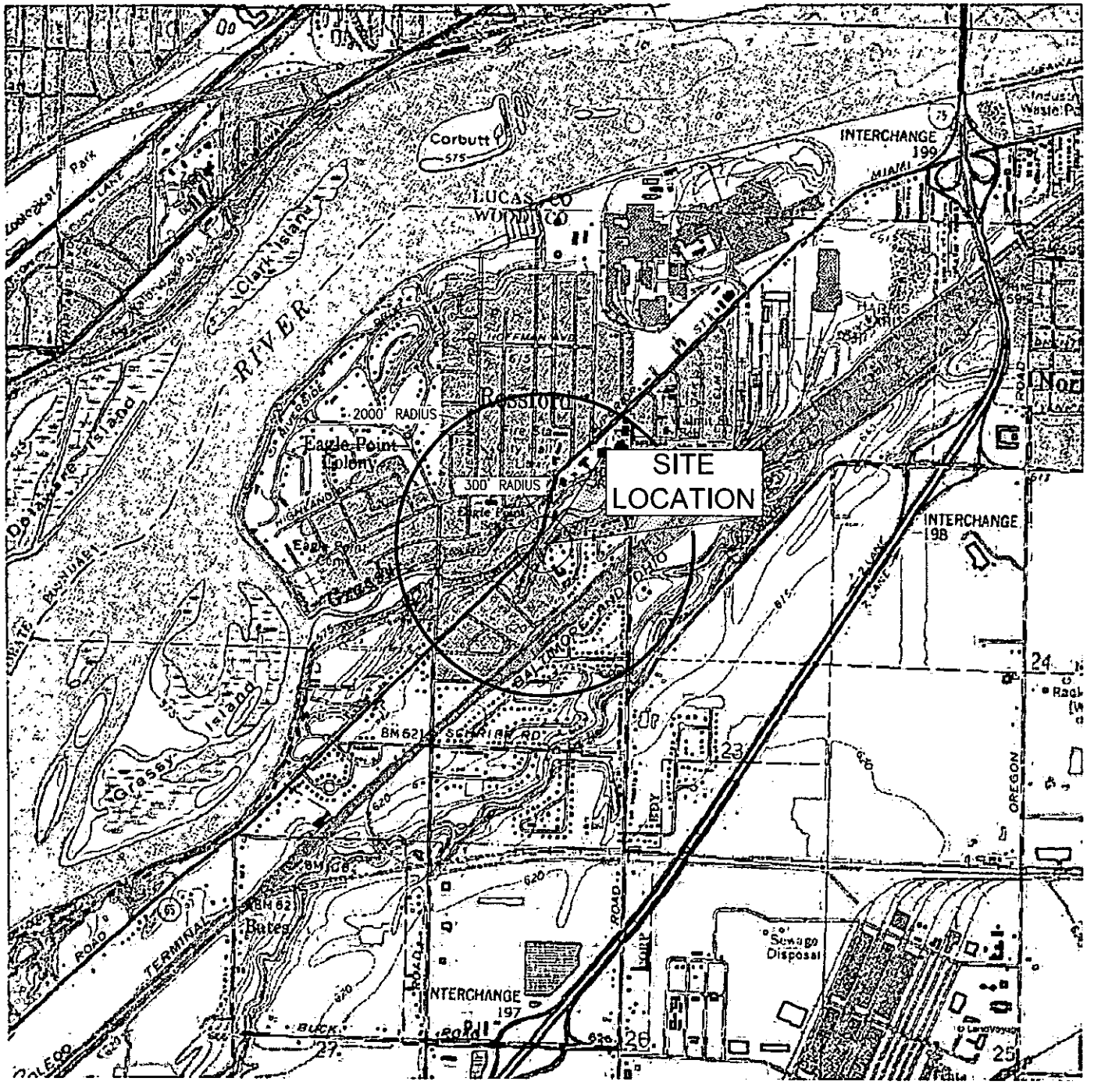
Task 4: Tier 3 Evaluation $6,242

- Complete regression analysis for half life solute transport, hydraulic conductivity evaluation, revise fate and transport modeling and calculate SSTL, prepare Tier 3 Evaluation Report, including soil cross sections

Refer to **Appendix A**. Supplemental Tier 3 Evaluation Cost Estimate, for a detail cost estimate breakout.

6.0 CONCLUSIONS

ATC recommends conducting a Tier 3 Evaluation to develop a new MTBE SSTL for the site that more closely matches actual site conditions using BIOSCREEN models. If the newly developed Tier 3 SSTL for MTBE is not exceeded, then no further action will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be assessed at that time.



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

N

2/2/11

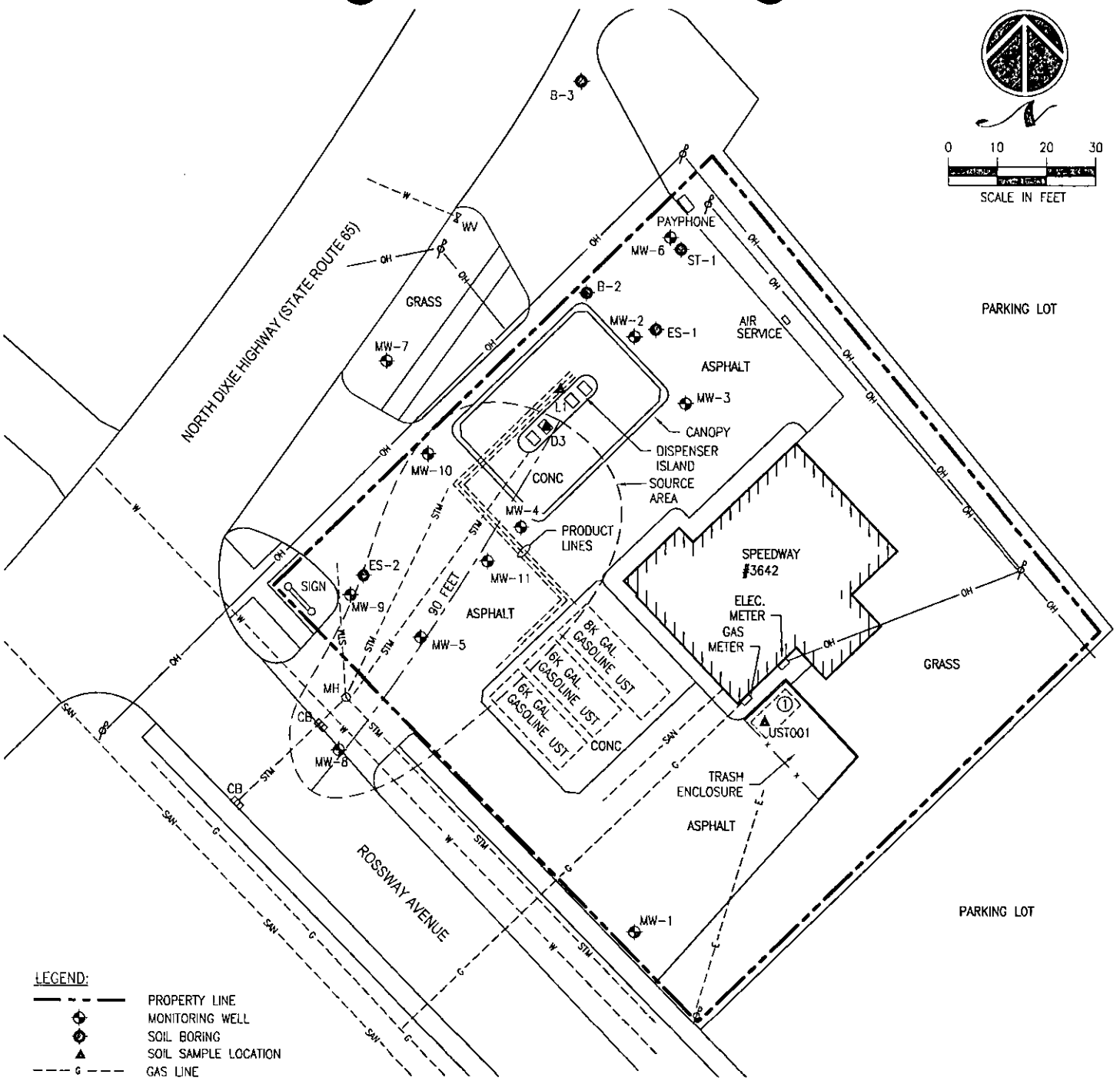
...speedway3642-SLM.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: CEV	FIGURE 1

SITE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD UTILITIES
- CB CATCH BASIN
- MH MANHOLE
- UTILITY POLE
- WV WATER VALVE

FORMER SITE FEATURES:

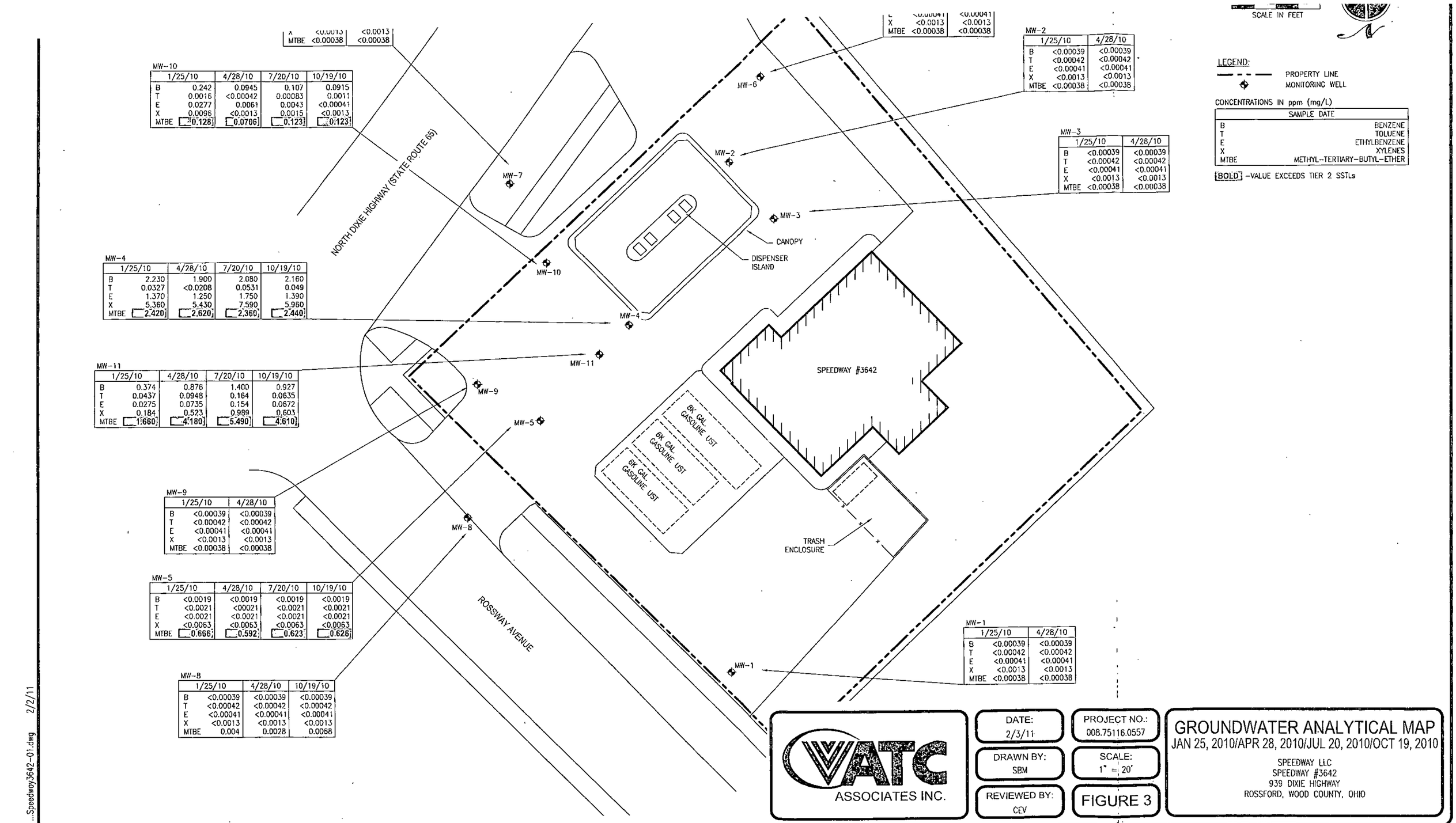
① FORMER USED OIL UST

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 2

SITE MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



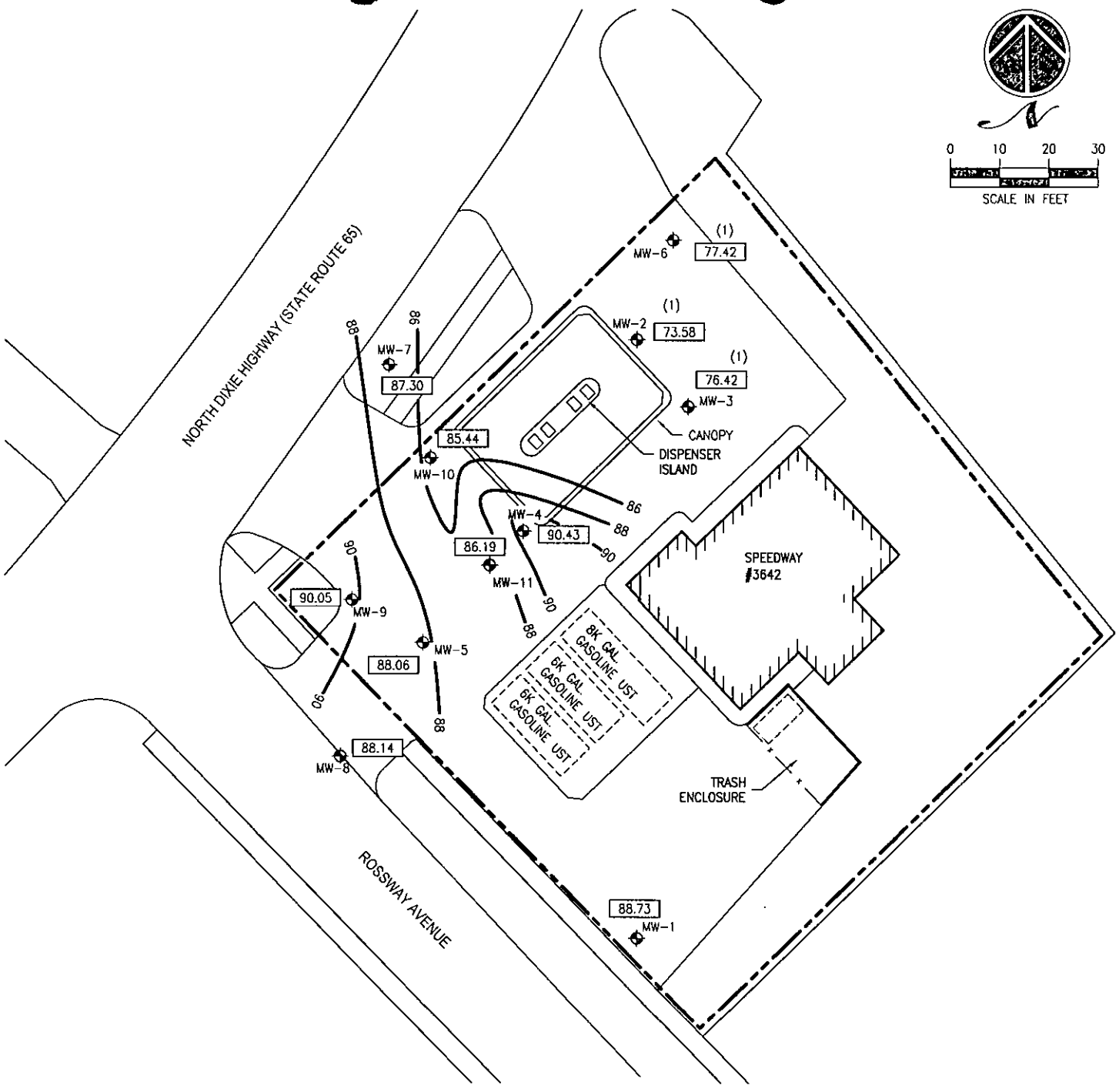
ATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0557
DRAWN BY: SBM	SCALE: 1" = 20'
REVIEWED BY: CEV	FIGURE 3

GROUNDWATER ANALYTICAL MAP
JAN 25, 2010/APR 28, 2010/JUL 20, 2010/OCT 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Speedway3642-01.dwg 2/2/11



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- 89.29 — RELATIVE GROUNDWATER ELEVATION
- (1) — NOT USED TO CREATE CONTOURS
- 88 — EQUIPOTENTIAL CONTOUR LINE (2.0 FOOT CONTOUR INTERVAL) (DASHED WHERE INFERRED)

2/2/11

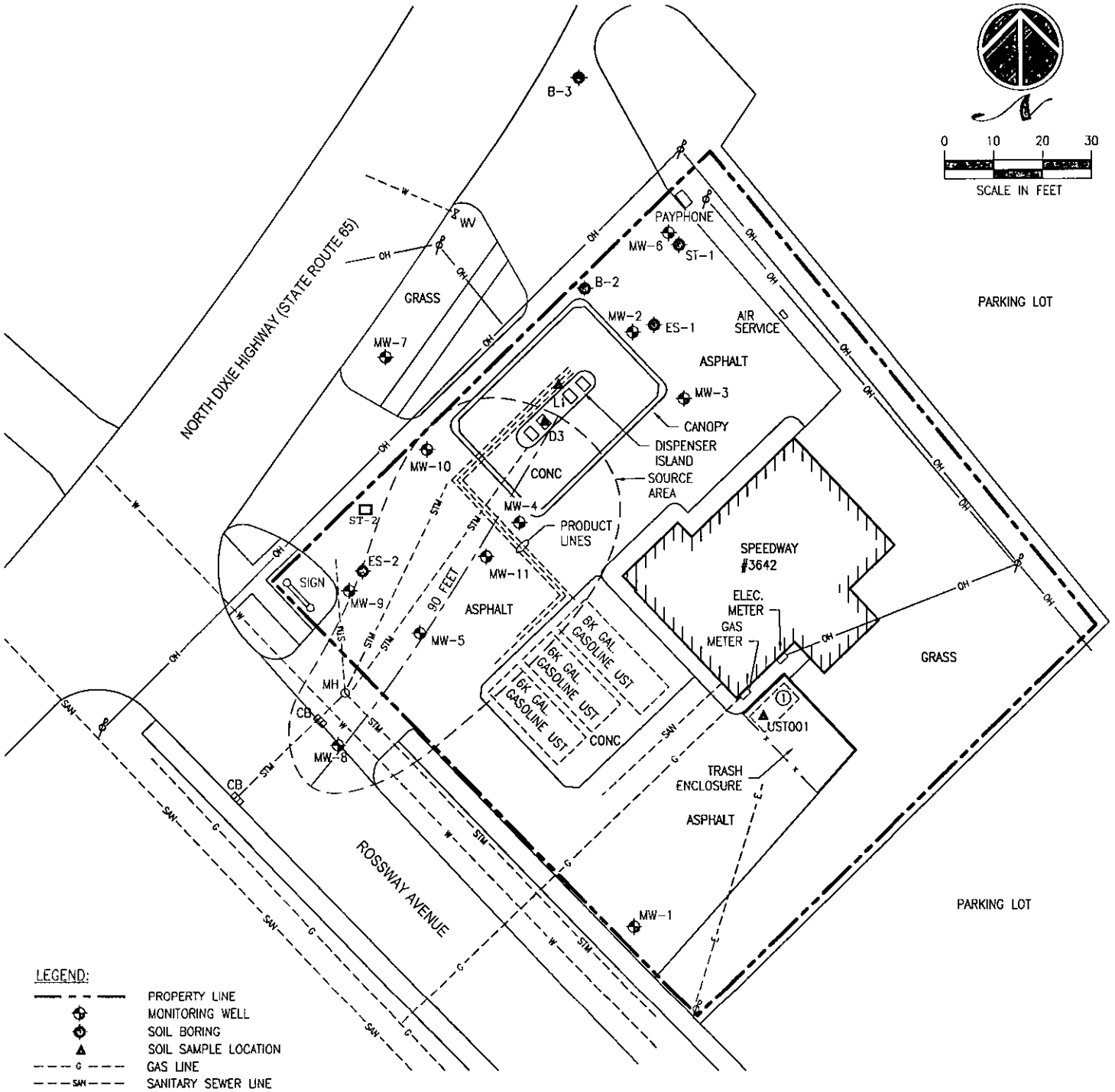
...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 08.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 4

POTENTIOMETRIC SURAFCE MAP
OCTOBER 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD UTILITIES
- CB CATCH BASIN
- MH MANHOLE
- UTILITY POLE
- WV WATER VALVE

FORMER SITE FEATURES:

① FORMER USED OIL UST

2/2/11

...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 7/19/11	
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 5

PROPOSED SOIL SAMPLE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.012	< 0.008	< 0.011	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.012	< 0.008	< 0.011	< 0.028	< 0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	01/25/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	04/28/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	07/20/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	0.500
								TRIP BLANK	10/19/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Remediation System Influent Water											**NA**	**NA**	**NA**	**NA**	**NA**
INFLUENT								INFLUENT	10/07/2009	14:00	< 0.230	< 0.360	< 0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	< 0.230	< 0.360	< 0.400	< 1.100	51.400
								INFLUENT	12/21/2009	15:00	< 0.390	< 0.420	< 0.410	< 1.300	44.600
Action Levels - Remediation System Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
EFFLUENT								EFFLUENT	10/07/2009	14:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	11/05/2009	18:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	12/21/2009	15:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								EFFLUENT	01/04/2010	18:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	100.8	89.29	11.51			MW-01	04/28/2010	14:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	100.8	88.73	12.07										
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										
	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.19	73.36	23.83			MW-02	04/28/2010	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.19	73.58	23.61										
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	98.44	76.31	22.13			MW-03	04/28/2010	15:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	98.44	76.42	22.02										
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	**2420.000**
	04/28/2010	00:00	97.98	90.67	7.31			MW-04	04/28/2010	15:30	1900.000	< 20.800	1250.000	5430.000	**2620.000**
	07/20/2010	00:00	97.98	91.92	6.06			MW-04	07/20/2010	14:20	2080.000	53.100	1750.000	7590.000	**2360.000**
	10/19/2010	00:00	97.98	90.43	7.55			MW-04	10/19/2010	12:10	2160.000	49.000	1390.000	5960.000	**2440.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	< 1.900	< 2.100	< 2.100	< 6.300	**666.000**
	04/28/2010	00:00	96.47	87.95	8.52			MW-05	04/28/2010	15:50	< 1.900	< 2.100	< 2.100	< 6.300	**592.000**
	07/20/2010	00:00	96.47	88	8.47			MW-05	07/20/2010	14:30	< 1.900	< 2.100	< 2.100	< 6.300	**623.000**
	10/19/2010	00:00	96.47	88.06	8.41			MW-05	10/19/2010	12:30	< 1.900	< 2.100	< 2.100	< 6.300	**626.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										
	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	96.7	78.13	18.57			MW-06	04/28/2010	15:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	96.7	77.42	19.28										
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.09	90.33	6.76			MW-09	04/28/2010	14:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.09	90.05	7.04										
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	**128.000**
	04/28/2010	00:00	96.52	85.71	10.81			MW-10	04/28/2010	14:40	94.500	< 0.420	6.100	< 1.300	**70.600**
	07/20/2010	00:00	96.52	84.72	11.8			MW-10	07/20/2010	14:40	107.000	0.830	4.300	1.500	**123.000**
	10/19/2010	00:00	96.52	85.44	11.08			MW-10	10/19/2010	12:00	91.500	1.100	< 0.410	< 1.300	**123.000**
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	**1660.000**
	04/28/2010	00:00	96.63	88.11	8.52			MW-11	04/28/2010	15:40	876.000	94.800	73.500	523.000	**4180.000**
	07/20/2010	00:00	96.63	88.06	8.57			MW-11	07/20/2010	14:50	1400.000	164.000	154.000	989.000	**5490.000**
	10/19/2010	00:00	96.63	86.19	10.44			MW-11	10/19/2010	12:20	927.000	63.500	67.200	603.000	**4610.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	04/28/2010	00:00	95.7	88.18	7.52			MW-07	04/28/2010	14:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	95.7	87.3	8.4										
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	< 0.390	< 0.420	< 0.410	< 1.300	4.000
	04/28/2010	00:00	98.78	89.43	9.35			MW-08	04/28/2010	14:20	< 0.390	< 0.420	< 0.410	< 1.300	2.800
	10/19/2010	00:00	98.78	88.14	10.64			MW-08	10/19/2010	11:50	< 0.390	< 0.420	< 0.410	< 1.300	6.800
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**NA**	**NA**	**NA**	**NA**	**NA**
MID CARBON								MID CARBON	10/07/2009	14:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	11/05/2009	18:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	12/21/2009	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Air Stripper Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	< 0.230	< 0.360	< 0.400	< 1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	< 0.230	< 0.360	< 0.400	< 1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	< 0.390	< 0.420	< 0.410	< 1.300	1.300

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	NA	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,i)perylene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	NA	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	NA	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	NA	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	NA	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	NA	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	NA	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A

TIER 3 EVALUATION COST ESTIMATE

Supplemental Tier 3 Evaluation Cost Estimate

Speedway # 3642 Rossford

Summary of work: **Supplemental T3 Evaluation:** Complete one soil borings for Shelby Tube and two samples for FOC/TPH (C6-12)/BTEX/MTBE Perform 2 groundwater sampling events (11 wells for BTEX/MTBE) Implement Tier 3 Work Plan: complete regression analysis for solute half life; hydraulic conductivity evaluation; fate and transport modeling, calculate SSTLs, and prepare Tier 3 report incl. sampling results and soil cross sections. The scope of		PROJECT TOTALS		TASK 1 **Drilling/OUPS notification/HASP Update; Soil Borings**		TASK 2 **Well Dvlpt. Groundwater Sampling - 2 events/11 wells**		TASK 3 **Groundwater Monitoring Results Reporting**		TASK 4 **Tier 3 Evaluation**	
LABOR	**RATE**	Hrs	Amount			Hrs	Amount	Hrs	Amount	Hrs	Amount
Principal	$90	0	$0		$0		$0		$0		$0
Senior Project Manager	$90	0	$0		$0		$0		$0		$0
Project Manager	$82	21	$1,722	6	$492	4	$328	4	$328	7	$574
Engineer/Scientist (Hydro)	$75	63	$4,725	3	$225		$0		$0	60	$4,500
Geologist	$65	41	$2,665	16	$1,040	1	$65	14	$910	10	$650
Junior Geologist	$60	2	$120		$0		$0		$0	2	$120
Project Manager Assistant	$55	5	$275	1	$55	2	$110		$0	2	$110
Technician	$50	29	$1,450		$0	28	$1,400	1	$50		$0
Drafting	$48	10	$480		$0		$0	4	$192	6	$288
TOTAL LABOR		171	11437	26	$1,812	35	$1,903		$1,480	87	$6,242
TOTAL SUBCONTRACTORS			$2,600		$2,400		$200		$0		$0
TOTAL LABORATORY			$2,779		$931		$1,848		$0		$0
TOTAL EXPENSES			$1,455		$373		$1,082		$0		$0
TOTAL ESTIMATED COSTS			**$18,271**		$5,516		$5,033		$1,480		$6,242

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 **Drilling/OUPS notification/HASP Update; Soil Borings**		TASK 2 **Well Dvlpt. Groundwater Sampling - 2 events/11 wells**		TASK 3 **Groundwater Monitoring Results Reporting**		TASK 4 **Tier 3 Evaluation**	
SUBCONTRACTORS	**RATE**	Units	Amount			Units	Amount	Units	Amount	Units	Amount
Drum Removal	$100	4	$400	2	$200	2	$200		$0		$0
Drilling Subcontractor (with Vacuum Digging)		1	$2,200	1	$2,200		$0		$0		$0
			$0		$0		$0		$0		$0
			$0		$0		$0		$0		$0
TOTAL SUBCONTRACTORS			**$2,600**		**$2,400**		**$200**		**$0**		**$0**
LABORATORY											
Water - BTEX & MTBE 8260B	$77	25	$1,925	1	$77	24	$1,848		$0		$0
Shelby Tube Analysis	$450	1	$450	1	$450		$0		$0		$0
Soil - TPH C6-C12 US EPA 8015	$50	2	$100	2	$100		$0		$0		$0
Soil - FOC ASTM D2974	$75	2	$150	2	$150		$0		$0		$0
Soil - BTEX &MTBE US EPA 8260B	$77	2	$154	2	$154		$0		$0		$0
TOTAL LABORATORY COSTS			**$2,779**		**$931**		**$1,848**		**$0**		**$0**
EXPENSES											
Mileage	$0.45	750	$338	250	$113	500	$225		$0	0	$0
Lodging	$75.00	0	$0		$0		$0		$0	0	$0
Meals	$25.00	1	$25	1	$25		$0		$0	0	$0
Health & Safety Kit	$10.00	6	$60	1	$10	5	$50		$0	0	$0
Misc. Expenses (gloves, Shipping, Etc.)	$50.00	6	$300	1	$50	5	$250		$0	0	$0
PID	$65.00	1	$65	1	$65		$0		$0	0	$0
Water Level Ind	$25.00	1	$25		$0	1	$25		$0	0	$0
Interface probe	$50.00	6	$300	1	$50	5	$250		$0	0	$0
pH meter/conductivity meter	$10.00		$0		$0		$0		$0	0	$0
GPS Unit	$75.00		$0		$0		$0		$0	0	$0
Data Logger	$125.00		$0		$0		$0		$0	0	$0
Survey Equipment	$100.00		$0		$0		$0		$0	0	$0
Disposable Bailers	$8.00	24	$192		$0	24	$192		$0	0	$0
Rope	$10.00	4	$40	2	$20	2	$20		$0	0	$0
Digital Camera	$10.00	2	$20	1	$10	1	$10		$0	0	$0
Drum	$30.00	3	$90	1	$30	2	$60		$0	0	$0
TOTAL EXPENSES			**$1,455**		$373		$1,082		$0		$0

RECEIVED
SFM/BUSTR
2011 FEB 25 PM 1:55

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7967 9459 0592

February 22, 2011

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (3rd / Final Event)**
Speedway Store#3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Groundwater Sampling Report – 3rd Event / 4th (Final Event)* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report summarizes the groundwater monitoring and sampling actives conducted at the site on July 20, 2010 and October 19, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* dated March 31, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted pre-approval for the proposed monitoring plan in a letter dated June 26, 2009. The activities were conducted in accordance with the Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (1999).

On July 20, 2010, depth to fluid measurements and groundwater samples were collected from monitoring wells MW-04, MW-05, MW-10, and MW-11. On October 19, 2010, depth to fluid measurements were collected from all wells and groundwater samples were collected from monitoring wells MW-04, MW-05, MW-08, MW-10, and MW-11.

Laboratory analytical results for groundwater samples collected on July 20, 2010 and October 19, 2010 indicate dissolved methyl tertiary butyl ether (MTBE) concentrations collected MW-4, MW-5, MW-10, and MW-11 continues to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

Based on dissolved MTBE concentrations collected from site monitoring wells which exceed Tier 2 SSTLs, Speedway will prepare a remedial action plan for conducting either a Tier 3 Evaluation Work Plan or active corrective actions. This completes the final groundwater sampling event.

If you have any questions or concerns, please contact me at (937) 863-6513.

Sincerely,
SPEEDWAY LLC

Eric M. Swaisgood
Environmental Representative

cc: Doug Darrah – Senior Project Manager (ATC)
Colleen Varga – Project Geologist (ATC)
Reimbursement File #3642– w/encl.
Remediation File #3642– w/encl.

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AUG 20 2010
STATE FIRE MARSHAL

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7989 5620 4670

August 18, 2010

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (2nd Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Groundwater Sampling Report – 2nd Event* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report summarizes the groundwater monitoring and sampling actives conducted at the site on April 28, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* dated March 31, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted pre-approval for the proposed monitoring plan in a letter dated June 26, 2009. The activities were conducted in accordance with the Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

Depth to fluid measurements and groundwater samples were collected from MW-1 through MW-11 on April 28, 2010.

Laboratory analytical results for groundwater samples collected on April 28, 2010 indicate dissolved MTBE concentrations in MW-4, MW-5, MW-10, and MW-11 continue to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

This completes the second of four quarterly groundwater sampling events. If you have any questions or concerns, please contact me at (937) 863-6513.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Eric M. Swaisgood
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Colleen Varga – Staff Geologist (ATC)
Reimbursement File #3642– w/encl.
Remediation File #3642– w/encl.

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX STANDARD OVERNIGHT – 7985 0302 2500

March 25, 2010

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **IRA Completion Report**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Interim Response Action (IRA) Completion Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes the results of the three-months of dual-phase recovery and a complete groundwater sampling event conducted at the site in accordance with the Bureau of Underground Storage Tank Regulations (BUSTR) approved *IRA Notification Form* dated March 2009.

On September 30, 2009, a Speedway SuperAmerica LLC (SSA) owned mobile treatment unit was mobilized to the site and dual-phase recovery was initiated from the newly installed recovery well network. Details pertaining to the installation of the recovery wells, sub-grading recovery piping, electrical service installation, discharge permitting, and system start-up were summarized in the previously submitted *IRA Implementation Report* dated November 17, 2009. Dual-phase recovery was conducted at the site for approximately three months. While liquid recovery rates were relatively low with only 5,129 gallons of groundwater recovered for the duration of the IRA, the groundwater table demonstrated significant drawdown with an effective radius ranging from 20 to 60 feet. Vapor recovery at the site was more productive with an estimated 7.26 pounds of benzene, toluene, ethylbenzene, and xylenes (BTEX) and 260 pounds of total petroleum hydrocarbons (TPH) recovered over three months.

Results of the first quarterly sampling event indicated that MTBE concentrations in site wells generally showed a significant decrease when compared to the previous sampling event, assumed to be a result of the recovery efforts. As per BUSTR's approval, three additional quarterly groundwater sampling events are scheduled to determine if MTBE will demonstrate a decreasing trend. If a decreasing trend can be shown, then a Tier 3 Work Plan will be prepared outlining a strategy to develop a site specific degradation rate for MTBE which will be used to develop a new site specific target level for MTBE using the BIOSCREEN fate and transport model.

2010 MAR 25 PM 12:01
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SFM/BUSTR

If you have any questions or concerns, please contact me at (937) 863-7647.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Jennifer Schoenlein
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642 – w/encl.
Reimbursement File #3642 – w/encl

2010 MAR 25 PM 12:01
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Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX EXPRESS SAVER – 7930 2779 9660

November 17, 2009

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find the attached *Interim Response Action (IRA) Implementation Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced site. This report summarizes the activities conducted to implement the approved IRA which included the installation of the recovery well network, sub-grade remediation piping, mobilization and start-up of a dual phase recovery (liquid and vapor) mobile treatment unit (MTU), system installation, discharge permitting activities, dedicated electrical service installation, baseline (pre-system) site measurements, and initial monitoring activities. The *IRA Notification* dated March 31, 2009 was approved by the Bureau of Underground Storage Tank Regulation (BUSTR) in a letter dated April 15, 2009. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted cost pre-approval for the IRA activities on April 24, 2009.

On October 1, 2009, a high-vacuum MTU owned by Speedway SuperAmerica LLC (SSA) was connected to the recovery well network (MW-5 and MW-11) via newly installed sub-grade piping and junction vault. The MTU will be operated for a three-month period during which bi-monthly site visits will be conducted to maintain the system, collect monthly discharge samples, and to monitor system effectiveness with depth to fluid and vacuum measurements from site wells. The system operation, monitoring, and maintenance (OM&M) activities will be summarized in the IRA Completion Report to be prepared and submitted within 60 days from the completion of the IRA.

At the completion of the three months of liquid recovery via high-vacuum, a year of quarterly groundwater sampling will be conducted to determine if methyl tertiary butyl ether (MTBE) concentrations will decrease over time. If a consistent decrease is observed, a Tier 3 Evaluation work plan will be prepared at the completion of the fourth quarterly sampling event to outline a strategy to calculate a site specific degradation rate and revised site specific target level (SSTL) for MTBE in groundwater.

If you have any questions, or require additional information, please do not hesitate to contact me at (937) 863-6260.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Michael S. Bracey

Michael Bracey
Manager, Environmental Remediation

2009 NOV 20 PM 3:58

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cc: Cindy Duann – Claims Supervisor - PUSTRCB
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Equal Opportunity Employer

FORM 10930-E

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.ohio.gov

Ted Strickland
Governor

Kimberly A. Zurz
Director

April 15, 2009

ADAM CAMPBELL
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: INTERIM RESPONSE ACTION

Dear Mr. Campbell:

The Bureau of Underground Storage Tank Regulations (BUSTR) received your letter dated March 31, 2009 notifying BUSTR that you plan to perform Interim Response Actions at the site listed above.

Based on the information submitted, BUSTR approves the activities outlined in your letter. Please perform all IRA activities and submit all reports in accordance with OAC 1301:7-9-13, effective March 1999.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm/bust *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 614-728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Cindy Duann - PUSTRCB
Mark Samblanet - ATC
Travis Bukach - ATC

Speedway SUPERAMERICA

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2009 APR -3 AM 11: 18
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL – 7007 0220 0000 8741 3784

March 31, 2009

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **IRA Notification Report**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Interim Response Action Notification Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. On November 9, 2007, Speedway SuperAmerica LLC (SSA) submitted a *Monitoring Plan Completion Report* to the Bureau of Underground Storage Tank Regulations (BUSTR) which summarized the results of groundwater monitoring and sampling conducted in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006). Based on the fact that dissolved methyl tertiary butyl ether (MTBE) concentrations increased over time, SSA requested BUSTR approval to proceed with a Remedial Action Plan (RAP). No response has been received to date. However, SSA has re-evaluated the remediation strategy for the site and determined that Interim Response Action (IRA) activities are a more practical alternative than the previously requested RAP.

To decrease dissolved MTBE concentrations onsite, ATC proposes to conduct an IRA consisting of three months liquid recovery via a rented high-vacuum dual-phase recovery mobile treatment unit (MTU). Monitoring well MW-5 will be converted to a two-inch recovery well and an additional recovery well will be installed southwest of MW-4 to avoid active product lines. Depth to fluid measurements, well development, and an initial groundwater sampling event will be conducted for all wells prior to implementing the recovery activities in order to obtain baseline readings. Depth to fluid measurements and vacuum response readings will then be collected on a monthly basis from surrounding wells to document the radius of influence due to high-vacuum recovery at the site.

Quarterly groundwater sampling will be implemented upon completion of the three month liquid recovery period to evaluate the effectiveness. Four quarters of groundwater monitoring will be conducted from all existing wells. Samples will be submitted to a SSA approved laboratory and analyzed for BTEX and MTBE by U.S EPA Method 8260B. Results of the well development, baseline sampling, three months liquid recovery, and initial groundwater sampling event will be summarized in an IRA Implementation Report. Quarterly update reports will be completed after each of the remaining groundwater sampling event.

If groundwater analytical results indicate dissolved MTBE concentrations have stabilized or show a decreasing trend, a new Tier 3 Work Plan will be proposed to calibrate the Fate and Transport Model (BIOSCREEN) for MTBE. If MTBE in groundwater continues to demonstrate an increasing trend, data obtained from the IRA (i.e.: dual-phase radius of influence, pumping rate, etc.) will be used to develop a Remedial Action Plan (RAP) to consist of prolonged liquid recovery.

Based on the fact that the IRA consists of groundwater monitoring events after the dual-phase extraction, SSA requests written BUSTR and Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) pre-approval for the above mentioned activities. These activities will not be initiated until SSA receives written approval from both BUSTR and PUSTRCB.

If you have any questions or concerns, please contact me at (937) 863-7391.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Adam M. Campbell
Environmental Representative

cc: Cindy Duann – PUSTRCB (**Pre-Approval Requested**) – certified mail # 7007 0220 0000 8741 5807
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Nathan Saraceno – Project Geologist (ATC)
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

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2007 NOV 13 P 1:17

FEDEX STANDARD OVERNIGHT – 7925 9605 2784

9 November 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **MONTORING PLAN COMPLETION**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Monitoring Plan Completion Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

Results of the three quarters of groundwater sampling conducted in accordance with the December 2006 Groundwater Monitoring Plan indicate the following:

- Groundwater analytical results obtained from monitoring wells MW-1, MW-2, MW-3, MW-6, MW-7, and MW-9 continue to demonstrate benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) concentrations below laboratory method detection limits. Groundwater collected from MW-8 on 2 October 2007 indicated a minor detection (0.0017 ppm) for MTBE.
- MTBE concentrations detected in MW-4 and MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs). Additionally, MTBE concentrations have increased in excess of the Tier 2 SSTL in monitoring well MW-10.
- Measurable free product (0.03 feet) was observed in monitoring well MW-4 on 7 June 2007; subsequently, MW-4 was not sampled during the second groundwater sampling event. Furthermore, analytical results obtained from samples collected from MW-4 on 27 July 2007 and 2 October 2007 demonstrate stable to slightly increasing concentrations for BTEX and MTBE constituents.
- BTEX and MTBE concentrations have stabilized or have generally increased over time in monitoring wells MW-4, MW-5, and MW-10.

The groundwater monitoring plan was conducted to demonstrate that MTBE concentrations have stabilized or are decreasing over-time; however, results of the additional sampling has demonstrated that concentrations of BTEX and MTBE are increasing and possibly migrating from the source area as evidenced by the increase in chemicals of concern concentrations in MW-10. Consequently, a Tier 3 Evaluation cannot be conducted to address the MTBE impact at the site because a site specific degradation rate for MTBE cannot be calculated due to the increasing concentrations including measurable free product observed in MW-4 (7 June 2007). **Based on these findings, Speedway SuperAmerica LLC (SSA) respectfully requests that Bureau of Underground Storage Tank Regulations (BUSTR) provide written approval to proceed with the preparation of a Remedial Action Plan (RAP) to address the MTBE impact in groundwater.**

On 12 December 2006, a draft of the proposed environmental covenant for the site was submitted to BUSTR as an attachment to the *Tier 2 Addendum #2 / Tier 3 Plan* dated December 2006. To date, no response has been received from BUSTR to indicate that the draft language has been approved. A copy of the draft covenant has been included in Appendix C of the enclosed report for BUSTR review and approval.

If you have any questions or concerns, please contact me at (937) 863-7862.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SA SUPERAMERICA

RECEIVED
2007 NOV -5 PM 12:27
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL – 7007 1490 0001 9686 8512

30 October 2007

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Free Product Recovery**
Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Krueger:

Enclosed is one copy of the *Free Product Recovery Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report covers Free Product Recovery (FPR) activities conducted in July, August and October 2007 by ATC. The free product recovery was conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 2005 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

Monitoring well MW-4 was monitored for free product on 27 July 2007, and 14 August 2007, and during a groundwater sampling event conducted on 2 October 2007. No measurable phase separated hydrocarbons (PSH) were observed. Since the initiation of PSH recovery events onsite (27 June 2007), approximately 0.01 gallons of PSH have been recovered on-site.

This report documents the third consecutive month that free product (equal to or greater than 0.02 feet) has not been present onsite. Subsequently, free product recovery activities have been terminated at the site. If you have any questions or concerns, please do not hesitate to call me at 937-863-7862.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

Attachment
cc: Mark A. Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Kathryn Price – Staff Geologist (ATC)
Remediation File #3642
Reimbursement File #3642

Speedway
SUPERAMERICA

RECEIVED
2007 AUG 20 PM 2:18
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

***CERTIFIED MAIL* – 7000 0520 0012 0647 2613**

15 August 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (2nd Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on June 7, 2007, in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

On June 7, 2007, depth to fluid measurements were collected from monitoring wells MW-1 through MW-10. Groundwater samples were submitted to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by U.S. EPA Method 8260B. Monitoring well MW-4 was not sampled due to the presence of measurable free product within the well. The groundwater sampling methodologies and results are detailed in the attached report.

This completes the second of four quarterly groundwater sampling events outlined in the previously submitted Tier 3 Monitoring Plan. The next sampling event is scheduled for August 2007. Monthly free product recovery activities are being conducted at the site (MW-4). These activities are being summarized in separate monthly reports.

If you have any questions or concerns, please contact me at (937) 863-7862.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Timothy Wilfong
Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Kathryn Price – Staff Scientist (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2007 JUN 25 PM 12:34
STATE FIRE MARSHAL

CERTIFIED MAIL – 7000 0520 0012 4645 3436

21 June 2007

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Free Product Recovery (June 2007)**
Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Krueger:

Enclosed is one copy of the *Free Product Recovery / 20-Day Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. This report covers the initial Free Product Recovery activities conducted at the site by ATC since the discovery of free product in MW-4 on 7 June 2007. Free product recovery activities are being conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 2005 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2005).

On 7 June 2007, measurable free product (0.03 feet) was observed in monitoring well MW-4 during a quarterly groundwater sampling event conducted as part of the approved Tier 3 Work Plan. Approximately 0.01 gallons of phase separated hydrocarbons (PSH) were recovered from MW-4 via hand bailing. Speedway SuperAmerica LLC (SSA) does not believe that a new release has occurred since the product appeared to be a dark amber and weathered, no recent alarms from the Veeder Root system have been noted at the site to indicate a leak, MW-4 has been historically the most impacted well onsite and PSH sheens (not measurable) have been observed during routine sampling events in the past.

On 14 June 2007, an ATC technician returned to the site to conduct free product recovery activities. Monitoring well MW-4 was gauged with an oil/water interface; no measurable free product was identified. Approximately two gallons of groundwater was hand-bailed from MW-4 and no PSH was observed in the purge water.

SSA plans to continue free product recovery activities on a monthly basis until no measurable PSH is observed at the site for three consecutive months. Monthly free product recovery reports will be submitted to your office. If you have any questions or concerns, please do not hesitate to call me at 937-863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith Hughes
Advanced Environmental Representative

Attachment
cc: Mark A. Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2007 APR 10 PM 12: 30
STATE FIRE MARSHAL

CERTIFIED MAIL – 7000 0520 0012 4644 1785

5 April 2007

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: **Groundwater Sampling Report (1st Event)**
Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on February 21, 2007, in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006).

Prior to initiating the groundwater monitoring plan, on 16 February 2007 the monitoring wells were redeveloped. On February 21, 2007, depth to fluid measurements were collected from monitoring wells MW-2 through MW-6 and MW-8 through MW-10. Monitoring wells MW-1 and MW-7 were inaccessible due to heavy snow and ice accumulation. Groundwater samples collected were submitted to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by U.S. EPA Method 8260B. The groundwater sampling methodologies and results are detailed in the attached report.

This completes the first of four quarterly groundwater sampling events outlined in the previously submitted Tier 3 Monitoring Plan. The next sampling event is scheduled for June 2007.

If you have any questions or concerns, please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Kathryn Price – Staff Scientist (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2006 DEC 18
STATE FIRE MARSHAL

FEDEX STANDARD OVERNIGHT – 7906 2836 6226

12 December 2006

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: **Tier 2 Addendum #2/Tier 3 Plan**
Speedway SuperAmerica #3642
939 East River Road (Dixie Highway)
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find the attached *Tier 2 Addendum #2/Tier 3 Plan* as prepared by our consultant, ATC Associates Inc. (ATC), for the above referenced site. This report was written to provide information requested by the Bureau of Underground Storage Tank Regulations (BUSTR) in their *Additional Information Response* letter dated 13 September 2006.

The results of the Tier 2 Addendum #2 are summarized as follows:

- The site has been delineated to Tier 1 action levels in both soil and groundwater.
- Based on the re-evaluation of Tier 2 fate and transport modeling and the re-development of site-specific target levels (SSTLs) for benzene, ethylbenzene, and total xylenes using a horizontal hydraulic gradient of 0.030 feet per foot and a default total organic carbon value of 0.001 per BUSTR's request, the point-of-demonstration (POD) well concentrations verify the fate and transport of each of these constituents and it was demonstrated that the original Tier 2 SSTLs would still apply to the site.
- The Tier 2 Groundwater Ingestion SSTLs for benzene, ethylbenzene, and total xylenes were not exceeded in any of the samples.
- The fate and transport of methyl tertiary butyl ether (MTBE) using a no decay solute transport model is overly conservative and does not reflect the historical analytical data obtained at the site.

It will be necessary further evaluate MTBE associated with the Groundwater Ingestion Pathway in terms of a Tier 3 Evaluation. A Tier 3 Evaluation is deemed the appropriate corrective action since a "no decay" scenario is currently used to evaluate the fate and transport of MTBE in groundwater to the nearest point-of-exposure (POE). The Tier 3 Evaluation will be performed to determine whether MTBE will migrate to the nearest receptor at concentrations exceeding the Tier 1 action level using fate and transport of MTBE with first order decay based on the Domenico analytical solute transport.

To complete a Tier 3 Evaluation of the site, MTBE concentrations in groundwater from the source well and downgradient wells from several groundwater monitoring events are used to statistically derive a site-specific solute half-life for MTBE, which will be used to re-evaluate the fate and transport of MTBE to the nearest receptor and to obtain a Tier 3 SSTL for MTBE. If this plan is approved by BUSTR and the

Mr. Rick Krueger
Tier 2 Addendum #2/Tier 3 Plan
Release #87000087-N00002
12 December 2006

Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB), the existing monitoring well network will be sampled on a quarterly basis for one year. The information will be used to develop the Tier 3 Evaluation Report. If the Tier 3 SSTL for MTBE is not exceeded, then no further action (NFA) will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be warranted.

Additionally, an environmental covenant will be executed for the site to restrict the site to commercial use only, to restrict basements, and to prohibit potable wells for drinking water use in order to eliminate the Groundwater Ingestion Pathway and the Soil to Drinking Water Leaching Pathway.

If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith A Hughes
Advanced Environmental Representative

KH/

cc: Cindy Duann – PUSTRCB Environmental Claims Supervisor
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

September 13, 2006

KEITH HUGHES
ADVANCED ENVIRONMENTAL REP.
SPEEDWAY SUPERAMERICA, LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 PETROLEUM RELEASE
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Hughes:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed our file for the site/release listed above, including your Tier 2 Addendum Report dated May 1, 2006. Based on our review, BUSTR requests the following:

1. The Tier 2 Addendum Report uses BIOSCREEN to evaluate the potential migration of benzene.
   - Please explain why 57.3 feet/year was used as the seepage velocity.
   - Provide additional information regarding the hydraulic gradient calculation. Based on several calculations using historical data, it appears that a better estimate of the hydraulic gradient in the vicinity of MW-4, MW-5, MW-7, MW-8, MW-9 and MW-10 would be approximately 0.03 feet/foot.
   - The fraction organic carbon (FOC) value used (0.010 g/g) does not agree with any of the data presented in Table 2. Please explain. In addition, all of the four soil samples tested for total organic carbon contained nearly identical ash contents and moisture contents, indicating that none of these four samples were collected below the groundwater table. Thus, the lab results should not be used in the BIOSCREEN model.

2. The Tier 2 report also uses the BIOSCREEN model to evaluate the potential migration of MTBE.
   - It appears that MW-5 should be considered a down-gradient well vis-à-vis MW-4 (rather than a side-gradient well within the source area). This conclusion is based on an observation that the MTBE concentrations at MW-5 show a slightly increasing trend since April of 2002, and that the groundwater flow direction has had a vector in that direction.
   - Because the model predicts that MTBE will reach the POE, a Tier 3, RAP or IRA are necessary to address MTBE in groundwater.

3. The Tier 2 report requests BUSTR approval to perform additional groundwater monitoring. BUSTR agrees that additional groundwater monitoring will be needed. However, please revise the BIOSCREEN model based on the comments listed above and then submit a revised Monitoring Plan. Also, please note that future groundwater monitoring activities should include all 10 of the monitoring wells, due to the relatively complex groundwater elevations and flow directions.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2006 MAY -4 PM 3:56
STATE FIRE MARSHAL

FEDEX 2ND DAY – 7927 2991 6995

1 May 2006

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica LLC #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Tier 2 Addendum Report* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. The report has been prepared to present the results of the additional assessment activities conducted in January 2006, to re-evaluate Site Specific Target Levels (SSTLs) for chemicals of concern in soil and groundwater which exceed Tier 1 Action Levels, and to present the results of the Groundwater Monitoring Plan conducted at the site.

The following summarizes the conclusions of the Tier 2 Addendum:

- Two additional monitoring wells (MW-9 and MW-10) were installed as point of demonstration wells downgradient of MW-4 and MW-5. Furthermore, the wells provided data to more accurately determine the extent of hydrocarbon impact for the BIOSCREEN model inputs.
- Based on the results of the Tier 1 and Tier 2 Evaluations, the groundwater encountered at the site during subsurface investigations is considered drinking water due to the presence of at least three potable water wells within a 2,000-foot radius from the site and due to the presence of a body of surface water within 300 feet. Grassy Creek is located approximately 250 feet north of the site and flows westward into the Maumee River. The future onsite Groundwater Ingestion Pathway is potentially complete for benzene, ethylbenzene, xylenes, and MTBE.
- The site is currently zoned commercial and, based on the criteria given in OAC 1301:7-9-13 (M)(1)(g), the anticipated future land use will be considered commercial since greater than 75% of the surrounding properties within 300 feet of the site are commercial..
- Extent of hydrocarbon impact in soil and groundwater has been defined to Tier 1 Action Levels.
- All chemical of concern concentrations in soil and groundwater do not exceed the applicable Tier 2 SSTLs and/or Tier 1 Action Levels with the exception of MTBE concentrations in groundwater collected from MW-4 and MW-5. However, the dissolved MTBE plume is not migrating in accordance with the conservative BIOSCREEN model predictions. Instead, the MTBE plume has demonstrated a relatively stable plume with minimal down-gradient migration as evidenced by site data. Based on these observations, the Groundwater Ingestion Pathway at the 250-foot POE is considered incomplete.

Based on the conclusions presented above, the residual hydrocarbon impact present in groundwater onsite does potentially pose an unacceptable risk to human health and the environment in the future scenarios. Speedway SuperAmerica LLC (SSA) will prepare an Environmental Covenant to prohibit future use of groundwater onsite as drinking water to eliminate the future onsite Groundwater Ingestion Pathway. **Additionally, since monitoring wells MW-9 and MW-10 have only been sampled once, SSA requests**

BUSTR approval to extend the Groundwater Monitoring Plan for three additional quarters. This extension will serve to demonstrate that BTEX and MTBE concentrations are stable or decreasing onsite and that the dissolved MTBE plume is stable and not migrating at the rate indicated in the BIOSCREEN model calculations. If BTEX and MTBE concentrations do not increase onsite and MW-9 and MW-10 continue to exhibit BTEX and MTBE concentrations below laboratory method detection limits, a No Further Action (NFA) status will be requested once the Environmental Covenant is recorded with Wood County.

If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

KH/
cc: Mark Samblanet – Senior Project Manager (ATC)
Travis S. Bukach – Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

February 01, 2006

KEITH HUGHES
ADVANCED ENVIRONMENTAL REP.
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: CORRECTIVE ACTION RULE DETERMINATION

Dear Mr. Hughes:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your letter dated January 26, 2006 requesting to continue corrective actions using Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999. BUSTR has determined that justification exists to continue conducting corrective actions pursuant to OAC 1301:7-9-13, effective March 1999 and therefore approves your request. Should this site fail to comply with the requirements of OAC 1301:7-9-13, effective March 1999, it will automatically be moved into OAC 1301:7-9-13, effective March 2005.

Please submit the Groundwater Monitoring Completion Report to BUSTR by June 30, 2006.

Thank you for your cooperation. If you have any questions, please contact Rick Krueger at (614) 728-5120.

Sincerely,

Peter A. Chace
Bureau Chief

xc: Site File
Carol Anne McConnell - PUSTRCB

Speedway
SUPERAMERICA

RECEIVED
2005 NOV -7 AM 11:53
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

FEDEX 2ND DAY – 7902 0963 7725

1 November 2005

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Groundwater Sampling Report (Second Event)* as prepared by our consultant ATC Associates Inc. (ATC) for the above referenced facility. The report summarizes groundwater monitoring and sampling activities conducted at the site on 19 September 2005 in accordance with the extension of the groundwater monitoring plan as outlined in the ATC *Project Update Report* dated August 2005.

On 19 September 2005, depth to fluid measurements were collected from monitoring wells MW-1 through MW-8. Groundwater samples were collected and submitted to Southern Petroleum Laboratories, Inc. (SPL) located in Traverse City, Michigan and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The groundwater sampling methodologies are detailed in the attached report.

The laboratory analytical results for groundwater samples collected on 19 September 2005 indicate benzene, ethylbenzene, xylenes, and MTBE concentrations exceed Tier 1 Action Levels in monitoring wells MW-4. MTBE concentrations also exceeded Tier 1 Action Levels in MW-5.

One additional groundwater sampling event is scheduled for December 2005 to complete the extension of the groundwater monitoring plan. However, MTBE concentrations is MW-5 have consistently increased over the last eight sampling events conducted since April 2002. **Additionally, based on the current groundwater flow regime, Point of Demonstration (POD) have not adequately been positioned along the plume centerline. Therefore, two additional monitoring wells will be installed west of MW-4 and MW-5. Once the new wells are installed, a groundwater sampling event will be completed and a Tier 2 Addendum Report will be prepared to re-evaluate the BIOSCREEN fate and transport model.** If the results groundwater sampling event demonstrates an additional increase in MTBE concentrations in MW-5, an Interim Response Action (IRA), consisting of liquid recovery activities, will be considered.

If you have any questions or concerns, please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

KH/
cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL - 7005 3110 0001 4102 7042

BUSTR Received
1/30/06
RCK

26 January 2005

Mr. Pete Chace
Bureau Chief
Bureau of Underground Storage Tanks
8895 E. Main Street
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

RE: Continuance in 1999 Corrective Action Rules

Dear Mr. Chace:

We, Speedway SuperAmerica LLC, hereby inform the Bureau of Underground Storage Tank Regulations (BUSTR) of our request to continue corrective actions under the 1999 corrective action (CA) rules (effective March 31, 1999) for the release referenced in this correspondence. Our reason for this request is the site is currently being addressed under an approved Groundwater Monitoring Plan. The final groundwater sampling event of the monitoring plan is scheduled for February 2006. The benefit of keeping the release in the 1999 rule is the additional costs associated with complying with the analytical and reporting requirements specified in the 2005 Corrective Action regulations will not be incurred. **If this variance is granted by BUSTR, SSA proposes to submit the Monitoring Plan Completion Report to BUSTR prior to 30 June 2006.**

If you have any questions about this correspondence please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

Copy

James Leo – PUSTRCB Director, Certified Mail # 7000 0520 0012 4811 8623
Kelly Gill – BUSTR Corrective Action Supervisor, Delivered Regular Mail
Rick Krueger – BUSTR Site Coordinator, Delivered Regular Mail
SSA #3642 Remediation File – Government Correspondence
SSA #3642 Reimbursement File

Speedway
SUPERAMERICA

COPY

Speedway SuperAmerica LLC

Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL - 7005 3110 0001 4102 7042

BUSTR RECEIVED 1/30/06 (RCK)

26 January 2005

Mr. Pete Chace
Bureau Chief
Bureau of Underground Storage Tanks
8895 E. Main Street
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica LLC #3642
939 Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

RE: Continuance in 1999 Corrective Action Rules

Dear Mr. Chace:

We, Speedway SuperAmerica LLC, hereby inform the Bureau of Underground Storage Tank Regulations (BUSTR) of our request to continue corrective actions under the 1999 corrective action (CA) rules (effective March 31, 1999) for the release referenced in this correspondence. Our reason for this request is the site is currently being addressed under an approved Groundwater Monitoring Plan. The final groundwater sampling event of the monitoring plan is scheduled for February 2006. The benefit of keeping the release in the 1999 rule is the additional costs associated with complying with the analytical and reporting requirements specified in the 2005 Corrective Action regulations will not be incurred. **If this variance is granted by BUSTR, SSA proposes to submit the Monitoring Plan Completion Report to BUSTR prior to 30 June 2006.**

If you have any questions about this correspondence please contact me at (937) 863-7642.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Keith A. Hughes
Advanced Environmental Representative

Copy

James Leo – PUSTRCB Director, Certified Mail # 7000 0520 0012 4811 8623
Kelly Gill – BUSTR Corrective Action Supervisor, Delivered Regular Mail
Rick Krueger – BUSTR Site Coordinator, Delivered Regular Mail
SSA #3642 Remediation File – Government Correspondence
SSA #3642 Reimbursement File

Speedway SUPERAMERICA

COPY

RECEIVED
2005 NOV 14 AM 11:55
CLERK OF COURT MARSHAL

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

CERTIFIED MAIL 7000 0520 0012 0670 2291

9 November 2005

Mr. James Leo
Director
PUSTRCB
50 West Broad Street (Suite 150)
Columbus, Ohio 43215

RE: **PRE-APPROVAL REQUEST**
Speedway SuperAmerica #3642
939 N. Dixie Hwy
Rossford, Ohio
Wood County
Release #87000087-N00002

Dear Mr. Leo:

The groundwater monitoring plan (approved by BUSTR on 27 January 2004) has been extended by two quarters as requested by BUSTR in the 16 May 2005 Additional Information Requested Letter (attached). Based on the current groundwater flow regime, it has been determined by our consultant (ATC Associates Inc.) that point of demonstration (POD) wells have not adequately been positioned along the plume centerline for the purpose of verifying the BIOSCREEN fate and transport predictions for the site. Therefore, two additional monitoring wells are proposed to be installed west of MW-4 and MW-5 to provide the appropriate POD wells (see attached figure). Once the wells are installed, the final scheduled quarter of groundwater monitoring will be conducted.

SSA respectfully requests that PUSTRCB grant pre-approval for the costs associated with the installation of the proposed POD wells and costs to include the two newly installed wells in the sampling plan. A tabulation of the proposed costs has been attached. If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith Hughes
Advanced Environmental Representative

KH/

Attachments: Figures, Tables, BUSTR Letter, and Cost Breakdown

cc: w attachment

Rick Krueger – Environmental Specialist (BUSTR)
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)
David Dillon – Reimbursement Coordinator (SSA)

ATTACHMENT A

BRT SERVICES AND TECHNOLOGY

Cost Estimate - Change Order

SSA Store #3642 Rossford, Ohio *Summary of work:* Costs to include - Additional well installation.		PROJECT TOTALS		TASK 1 **Well Installation Activities**		TASK 2 **OUPS Notification and HASP Update**		TASK 3 **Groundwater sampling - new wells**		TASK 4	
	RATE	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount
Principal	$110	0	$0	0	$0	0	$0	0	$0	0	$0
Senior Project Manager	$90	1	$90	1	$90	0	$0	0	$0	0	$0
Project Manager	$82	4	$328	4	$328	0	$0	0	$0	0	$0
Engineer/Scientist (Hydro)	$75	2	$150	2	$150	0	$0	0	$0	0	$0
Field Staff (Jr. Hydro)	$60	16	$960	12	$720	4	$240	0	$0	0	$0
Project Manager Assistant	$55	3	$165	1	$55	2	$110	0	$0	0	$0
Technician	$50	0	$0	0	$0	0	$0	0	$0	0	$0
Drafting	$48	1	$48	1	$48	0	$0	0	$0	0	$0
Clerical/Administrative	$38	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL LABOR		27	$1,741	21	$1,391	6	$350	0	$0	0	$0
TOTAL SUBCONTRACTORS			$3,230		$3,230		$0		$0		$0
TOTAL LABORATORY			$403		$297		$0		$106		$0
TOTAL EXPENSES			$290		$290		$0		$0		$0
TOTAL ESTIMATED COSTS			**$5,664**		$5,208		$350		$106		$0

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 **Well Installation Activities**		TASK 2 **OUPS Notification and HASP**		TASK 3 **Groundwater sampling - new wells**		TASK 4 **0**	
SUBCONTRACTORS	**RATE**	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Drum Disposal	$100		$300	3	$300		$0		$0		$0
Drilling Services	$2,930		$2,930	1	$2,930		$0		$0		$0
			$0		$0						
TOTAL SUBCONTRACTORS			**$3,230**		**$3,230**		**$0**		**$0**		**$0**
LABORATORY											
BTEX&MTBE - Soil	$61.00		$244	4	$244		$0		$0		$0
BTEX&MTBE - Water	$53.00		$159	1	$53		$0	2	$106		$0
			$0		$0		$0		$0		$0
TOTAL LABORATORY COSTS			**$403**		**$297**		**$0**		**$106**		**$0**
EXPENSES											
Mileage	$0.40	0	$120	300	$120		$0		$0		$0
Lodging	$75.00	0	$0		$0		$0		$0		$0
Meals	$25.00	0	$0		$0		$0		$0		$0
Health & Saftey Kit	$10.00	1	$10	1	$10		$0		$0		$0
Misc. Expenses (gloves, Shipping, Ect..	$50.00	0	$50	1	$50		$0		$0		$0
PID	$65.00	0	$0		$0		$0		$0		$0
Water Level Ind	$10.00	0	$0		$0		$0		$0		$0
Interface probe	$50.00	0	$0		$0		$0		$0		$0
pH meter	$10.00	0	$0		$0		$0		$0		$0
Permit Fees	$200.00	0	$0		$0		$0		$0		$0
DO Meter	$10.00	0	$0		$0		$0		$0		$0
Survey Equipment	$100.00	1	$100	1	$100		$0		$0		$0
Disposable Bailers	$10.00	0	$0		$0		$0		$0		$0
Rope	$10.00	0	$0		$0		$0		$0		$0
Digital Camera	$10.00	1	$10	1	$10		$0		$0		$0
Drums	$30.00	0	$0		$0		$0		$0		$0
TOTAL EXPENSES			$290		$290		$0		$0		$0

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

May 16, 2005

Received
MAY 18 2005
Environmental
SSA, LLC

BRENT FOOS
ENVIRONMENTAL ENGINEERING
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SPEEDWAY #3642
939 EAST RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087 N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Foos:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your groundwater monitoring reports dated June 16, 2004 and August 30, 2004 for the site/release listed above. Based on our review, BUSTR had determined that additional groundwater monitoring is necessary due to the recent concentrations of benzene and MTBE. Therefore, BUSTR requests to following:

1. Please continue the groundwater monitoring program approved by BUSTR on January 27, 2004.
2. Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is currently in use.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

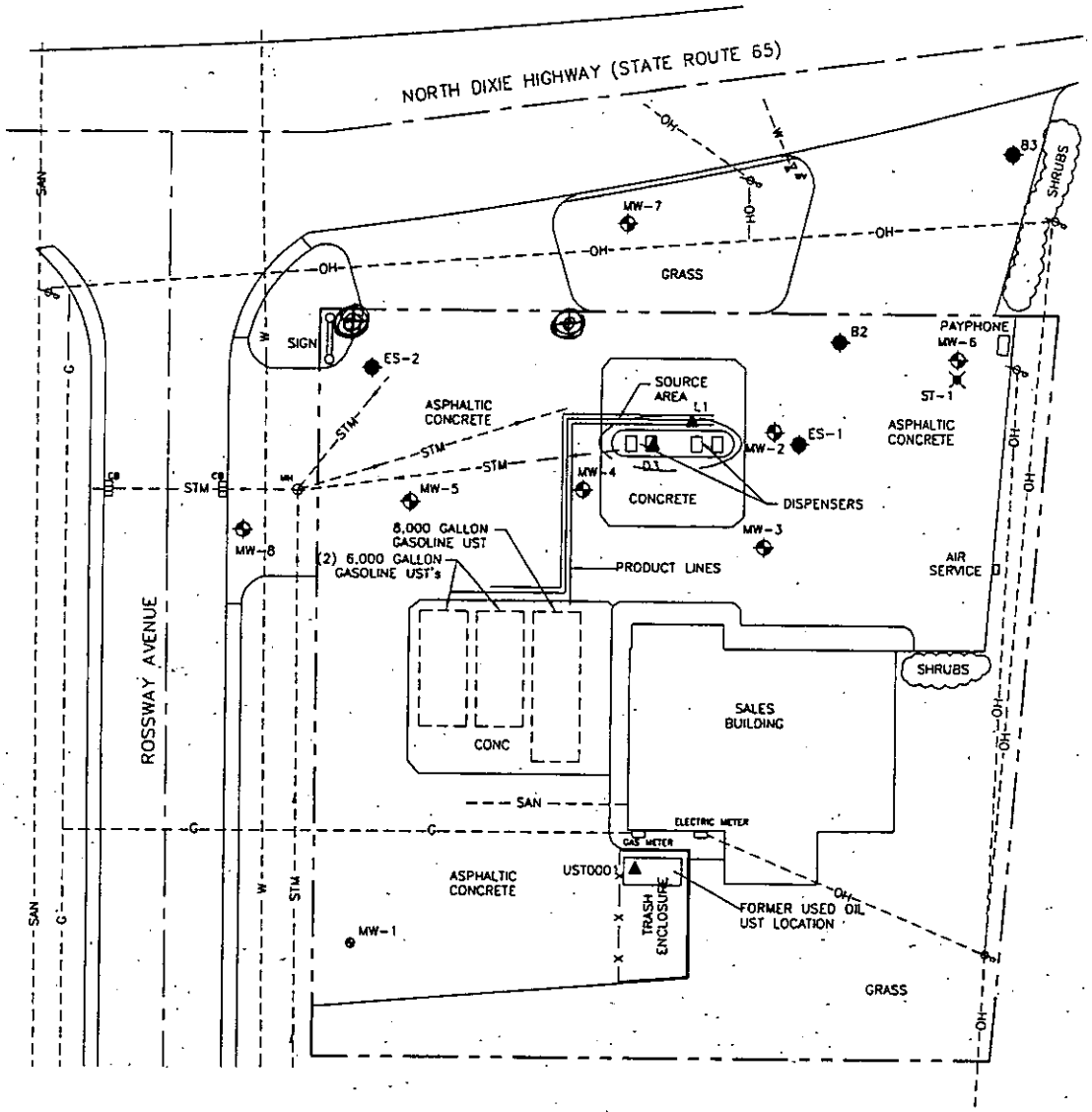
Thank you for your cooperation. If you have any questions, please contact me at 614-752-5120.

Sincerely,

Rick Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach – ATC Associates, Brecksville, OH



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

N

30 15 0 30

SCALE IN FEET

PROPOSED MONITORING WELLS

C:\DRAWINGS\SPEEDWAY\3642\SM.DWG

SITE MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057	DATE: 07/29/05
SCALE: 1" = 30'	DRAWN BY: R. Saunders
FIGURE 2	REVIEWED BY: N. Soraceno

ATC ASSOCIATES INC.

ATC ASSOCIATES, INC.
10020 Brecksville Rd, Brecksville, OH 44141
Phone: 440-838-7177

RECEIVED
2005 AUG 25 PM 3:31
STATE FIRE MARSHAL

Letter of Transmittal

To: Mr. Rick Krueger
Environmental Specialist
BUSTR
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: SSA Unit # 1140, 3642

Date: August 22, 2005

8700087-N2

Date	# of Copies	Description
19-Aug-05	1	Groundwater Sampling Activities
19-Aug-05	1	Additional Information Response Letter Report

These are transmitted:

- ☐ For Approval
- ☐ For Review
- ☐ For Your Use
- ☐ As Requested
- ☐ For Signature's) and Return Requested
- ☐ Other

Mode of Shipment

- ☐ Regular Mail
- ☐ Certified Mail
- ☐ Priority Over-Night
- ☐ Second Day Delivery
- ☐ Airborne Ground

Comments:

Copy W/Encl.

Project File

Signed: *Mark Samblanet*

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

May 16, 2005

BRENT FOOS
ENVIRONMENTAL ENGINEERING
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 EAST RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Foos:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your groundwater monitoring reports dated June 16, 2004 and August 30, 2004 for the site/release listed above. Based on our review, BUSTR had determined that additional groundwater monitoring is necessary due to the recent concentrations of benzene and MTBE. Therefore, BUSTR requests to following:

1. Please continue the groundwater monitoring program approved by BUSTR on January 27, 2004.

2. Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is currently in use.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

Krueger, Rick

From: Krueger, Rick
Sent: Thursday, April 14, 2005 1:00 PM
To: 'Travis Bukach'
Subject: RE: Release #87000087-N00002 - SSA #3642 Rossford

Hi Travis. I will put this on my list of sites to review. However, I have a very lengthy back-log.

Is there an imminent threat to human health or the environment at this site?
Is there a reason to make this site a top priority for BUSTR?

-----Original Message-----
From: Travis Bukach [mailto:travis.bukach@atcassociates.com]
Sent: Thursday, April 14, 2005 11:41 AM
To: Krueger, Rick
Subject: FW: Release #87000087-N00002 - SSA #3642 Rossford

Mr. Krueger:

Can you please advise ATC/SSA on how to proceed with this site. Specifically, should additional groundwater monitoring be conducted to show steady-state conditions? See the attached email below.

Travis S. Bukach
Project Geologist

ATC ASSOCIATES INC.
10020 Brecksville Road
Brecksville, Ohio 44141
Phone: 440-838-7177 Fax: 440-838-7181
Email: travis.bukach@atcassociates.com

-----Original Message-----
From: Travis Bukach [mailto:travis.bukach@atcassociates.com]
Sent: Wednesday, March 02, 2005 9:10 AM
To: Rick Krueger (rkrueger@com.state.oh.us)
Subject: Release #87000087-N00002 - SSA #3642 Rossford

Mr. Krueger:

A Tier 2 Evaluation Report was submitted for Release #87000087-N00002 in June 2003. Based on the results, a groundwater monitoring plan was implemented to verify the predictions of the BIOSCREEN model. Four quarters of sampling and reporting were completed by the previous consultant (Parsons). In the last groundwater sampling report (dated 30 August 2004), it was suggested that an additional (fifth) groundwater sampling event would be conducted due to increasing concentrations of benzene in MW-4. Upon review of the final report, it appears MTBE concentrations in MW-5 have also increased.

To date, the proposed additional groundwater sampling event has not been completed and a Tier 2 Verification / Monitoring Plan Completion Report has not been prepared. ATC (on behalf of SSA LLC) would appreciate feedback from BUSTR as to how to proceed with this site, given the increase in benzene and MTBE concentrations at the site. If you have any questions or require additional information, please feel free to give me a call.

Thank you for your time,

Travis S. Bukach
Project Geologist

ATC ASSOCIATES INC.

10020 Brecksville Road
Brecksville, Ohio 44141
Phone: 440-838-7177 Fax: 440-838-7181
Email: travis.bukach@atcassociates.com

PARSONS

19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
7-Sep-04	441032.99006

ATTENTION: Mr. Rick Krueger

RE: 8700087 - N2
SSA Unit #3642
939 East River Road
Rossford, Ohio

TO: Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	30-Aug-04		Groundwater Sampling Activities 16 June 04

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]

[X] For your use [ ] Approved as noted [ ]

[X] As requested [ ] Returned for corrections [ ]

[ ] For review and comment [ ] Return _____

[ ] FOR BIDS DUE _____ 20 _____ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS

Mr. Krueger:

Please find enclosed the above referenced document. If you have any questions, please feel free to call Andy Shrock at 216-486-9005.

RECEIVED
2004 SEP -8 PM 12:50
STATE FIRE MARSHAL

COPY TO _____

SIGNED *Andy Shrock, P.G.*

If enclosures are not as noted, kindly notify us at once.

PARSONS
19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

RECEIVED
2004 JUN 16 PM 2:52
STATE FIRE MARSHAL

LETTER OF TRANSMITTAL

DATE	JOB NO.
15-Jun-04	441032.9006

ATTENTION: Mr. Rick Krueger

RE: 8700087-N2
SSA Unit #3642
939 East River Road
Rossford, Ohio

TO: Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	Jun-04		Groundwater Monitoring and Sampling Report

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[X] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 20 _____ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS

Mr. Krueger:

Please find enclosed one copy of the above referenced document. If you have any questions, please feel free to call Andy Shrock at 216-486-9005.

COPY TO _____

SIGNED *Adam Tucker P.G.*

If enclosures are not as noted, kindly notify us at once.

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

January 27, 2004

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 UPGRADE OF UST SYSTEM AND
SUBSEQUENT RELEASE TO CREEK
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: GROUNDWATER MONITORING PLAN APPROVAL

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) reviewed the Groundwater Monitoring Plan (dated September 18, 2003) for the site/release listed above. Based on the information provided, BUSTR agrees that the proposed monitoring plan seems reasonable and appropriate for this site, and hereby approves the plan.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

PARSONS
19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
19-Sep-03	440142.99006
ATTENTION: Mr. Rick Krueger	
RE:	
SSA Unit #3642	
939 East River Road	
Rossford, Ohio	

TO Site Coordinator
Bureau of Underground Storage Tank Regulations
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications
[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	18-Sep-03	--	Monitoring Plan

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [ ] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [X] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[X] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[ ] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 19 _____ [ ] PRINTS RETURNED AFTER LOAN TO U

STATE FIRE MARSHAL
2003 SEP 23 PM 1:13
RECEIVED

REMARKS

Rick,

Please find attached the Monitoring Plan for the above referenced site. Please feel free to call with any questions.

COPY TO Brian Epperson

SIGNED Adam Tucker
Adam C. Tucker, PG

If enclosures are not as noted, kindly notify us at once.

Speedway SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

2003 SEP 23 P1 1:13
STATE FIRE MARSHAL

P:\SSA\3642_Rossford\Docs\3642_Monitoring Plan.DOC

CERTIFIED MAIL

18 September 2003

Mr. Rick Krueger
Bureau of Underground Storage Tank Regulations
BUSTR
LUCAS COUNTY CORRECTIVE ACTIONS
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica Unit #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00001 (2)
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

This letter provides a response as requested in your letter dated 25 July 2003 titled "Monitoring Plan Requested". A copy of your letter has been included as Attachment A. This site is currently regulated under the Ohio Administrative Code 1301:7-9-13, effective March 1999. A Tier 2 Evaluation Report was submitted to BUSTR during June 2003.

Responses to BUSTR Comments

Comment: *BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13(R).*

Response: Groundwater monitoring will be conducted at the site to verify the BIOSCREEN model predictions related to the potential migration of COCs to a potential offsite receptor. Quarterly groundwater samples will be collected from monitoring wells MW-1 through MW-8 at the site.

In preparation for sample collection during each quarterly sampling event, groundwater depth will be measured for each well. Water will be bailed from each well until either a minimum of three well volumes of water is removed, or the well is bailed dry. The wells will be allowed to recharge before sampling. Water samples will be collected with disposable bailers and placed into laboratory supplied 40-milliliter glass vials, placed on ice in a cooler, and submitted under chain-of-custody procedures to an SSA preferred laboratory. The samples will be analyzed for BTEX and MTBE (Method 8021B).

The anticipated groundwater monitoring length is one year. Because a groundwater monitoring plan was anticipated, quarterly groundwater monitoring was implemented upon submission of the Tier 2 report. If the groundwater sampling results indicate that the COC concentrations detected in groundwater at the point of demonstration are consistent with the prediction of BIOSCREEN model, groundwater monitoring will be terminated and a "No Further Action" status will be requested.

If you have any questions or require additional information, please contact me at 937-863-6514.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Advanced Environmental Representative

cc: Adam Tucker (Parsons)
Remediation File #3642
Reimbursement File #3642

ATTACHMENT A

BUSTR CORRESPONDENCE

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor
Lt. Governor Jennette Bradley
Director

RECEIVED
JUL 31 2003

July 25, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: MONITORING PLAN REQUESTED

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your "Tier 2 Evaluation Report" dated June 2003. Based on our review, BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13 (R).

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 60 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

July 25, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: MONITORING PLAN REQUESTED

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your "Tier 2 Evaluation Report" dated June 2003. Based on our review, BUSTR requests that you prepare a Monitoring Plan to verify the assumptions and predictions in the BIOSCREEN fate and transport model, in accordance with Ohio Administrative Code 1301:7-9-13 (R).

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 60 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Adam Tucker - Parsons Engineering, Cleveland, OH

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501

CERTIFIED MAIL

23 June 2003

Mr. Richard Krueger
Site Coordinator
Bur. Of Underground Storage Tank Regulations
WOOD COUNTY CORRECTIVE ACTIONS
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica LLC #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00001
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is the *Tier 2 Evaluation Report* for the above referenced site. The Tier 2 was conducted because the maximum benzene concentration detected in soil exceed the Tier 1 Action Levels for the soil volatilization to indoor air and the soil leaching to groundwater pathways, and the benzene, ethylbenzene and methyl tert butyl ether (MTBE) concentrations detected in groundwater exceed the Tier 1 Action Levels for the groundwater ingestion pathways.

The Tier 2 activities were performed to assess the potential risk to human health and the environment associated with site soil and groundwater in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, 31 March 1999, as enforced by Bureau of Underground Storage Tank Regulations (BUSTR). The BUSTR Tier 2 spreadsheets (May 2001) were used in the risk evaluation along with BIOSCREEN Natural Attenuation Decision Support System Version 1.4.

Under the current scenario as an active gasoline retail facility, commercial workers are the current human receptors. Less than 75% of the surrounding properties are commercial; therefore, residents are the future potential onsite receptors.

During the Tier 1 assessment, potable water wells were found within 2,000 feet of the site according to the Ohio Department of Natural Resources (ODNR), Division of Groundwater. Based on the preceding information, the saturated zone beneath the site is classified as drinking groundwater.

The Tier 2 Evaluation results indicated that the maximum benzene concentration detected in soil is below the SSTL for the soil to indoor air pathway (future residential). All other pathways are incomplete. Therefore residual petroleum hydrocarbons in soil and groundwater at SSA Unit #3642 do not pose an unacceptable risk under the current commercial and future residential scenarios.

RECEIVED
2003 JUN 27 AM 6:12
STATE FIRE MARSHAL

Based on the information presented in the enclosed report, SSA requests BUSTR's consideration for a "No Further Action" status. If you have any questions or concerns, please do not hesitate to contact me at (937) 863-6514.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian K. Epperson
Advanced Environmental Representative

Enclosure – Tier II Report, dated June 2003
Copy w/enclosures:
Remediation File – Reports
Remediation File – Reimbursement

Copy wo/enclosures:
Remediation File – Government Correspondence
Adam Tucker (Project Manager) - Parsons

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Lt. Governor Jennette Bradley
Director

May 19, 2003

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER EVALUATION REPORT

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) reviewed our file for the site/release listed above. Based on our review, BUSTR wishes to remind you that the Tier 2 Evaluation Report must be submitted to BUSTR no later than May 31, 2004.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Andrew Shrock - Parsons Engineering Science, Cleveland, OH

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

June 27, 2002

BRIAN EPPERSON
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: GASTOWN #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #**87000087-N00002**

RE: TIER EVALUATION OPTIONS

Dear Mr. Epperson:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed the file for the site listed above, including the Tier 1 Evaluation Report dated May 2002. Based on our review, you are instructed to proceed with one or a combination of the following options to address the chemicals of concern and the corresponding pathways where the concentrations are above actions levels, in accordance with Ohio Administrative Code 1301:7-9-13 (J):

- An Interim Response Action
- A Remedial Action Plan
- A Tier 2 Evaluation

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

In addition, please note that future correspondence for this site should reference release # 87000087-N00002 (not N00004). All releases have been "disproved", with the exception of N00002.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Rick Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Andrew Schrock - Parsons Engineering Science

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2002 JUN 12 AM 10:16
STATE FIRE MARSHAL

P:\SSA\3642_Rossford\Working\Tier1\3642_Tier1_BUSTR_May02.doc

CERTIFIED MAIL

31 May 2002

Mr. Rick Krueger
Site Coordinator
Bureau of Underground Storage Tank Regulations
BUSTR
WOOD COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica Unit #3642
939 E. River Road
Rossford, Ohio
Wood County
Release #87000087-N00004 (2)
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Enclosed is one copy of the *Tier 1 Evaluation Notification Checklist* prepared on behalf of Speedway SuperAmerica LLC for the above referenced site. The report summarizes the Tier Evaluation activities that were conducted during March and April 2002.

Release #87000087-N00004 was assigned to the site based on the gasoline release which was confirmed on 31 December 1997. Until December 2001, the site was regulated under the Ohio Administrative Code (OAC) Rule 1301:7-9-13 (effective September 1992), and the site was being assessed. **However, SSA has elected to apply the 1999 Corrective Action rule (effective date 31 March 1999) to this release as indicated in the SSA letter to the Bureau of Underground Storage Tank Regulations (BUSTR) dated 27 December 2001.**

On 6 through 11 March 2002, five soil borings were advanced and completed as monitoring wells MW-2 through MW-6. One additional soil boring, ST-1, was advanced to collect a Shelby Tube sample. A groundwater sampling event was collected on 11 April 2002. No Interim Response activities have been conducted.

During the Tier 1 Evaluation, the following information was collected:

- The release date for Release #87000087-N00004 is 31 December 1997. The release was discovered when gasoline was detected in the onsite storm sewers and in Grassy Creek.
- The probable source of the release is the gasoline UST system. The current source area is the area immediately surrounding and downgradient of the gasoline dispensers.
- Gasoline is dispensed at the facility, therefore, the COCs at the site are those associated with Analytical Group 1 (BTEX and MTBE).
- The dominant soil type at the site was classified as silty/clayey sands (CL).
- Groundwater was encountered in each soil boring at approximately 11 to 35 feet below surface grade (BSG). There appears to be two distinctive groundwater zones, with each zone exhibiting movement towards the south.
- Groundwater cannot yet be eliminated as a drinking water source since there are wells located within a 2,000-foot radius of the site.

Soil analytical results indicate that benzene concentrations exceeded Action Levels for the silty/clayey sand soil leaching to drinking groundwater pathway. Groundwater analytical results

indicate that benzene, ethylbenzene, and/or MTBE concentrations exceeded Tier 1 Action Levels for the groundwater ingestion pathway at monitoring wells MW-4 and MW-5.

Based upon the results presented within this report, SSA will initiate a Tier 2 Evaluation at the site. If you have any questions or concerns, please contact me at 937-863-6514.

Sincerely,
SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Environmental Representative

ACT/dee

Enclosure – *Tier1 Evaluation Notification Checklist* dated May 2002
Andrew Shrock (Parsons)
Remediation File #3642
Reimbursement File #3642

PARSONS ENGINEERING SCIENCE, INC.
19101 Villaview Road
CLEVELAND, OH 44119
(216) 486-9005

LETTER OF TRANSMITTAL

DATE	JOB NO.
10-Jun-02	741479.99006
ATTENTION: Mr. Rick Krueger	
RE:	
SSA Unit #3642	
939 East River Road	
Rossford, Ohio	

TO Site Coordinator
Bureau of Underground Storage Tank Regulations
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

WE ARE SENDING YOU [X] Attached [ ] Under separate cover via _____ the following items:

[ ] Shop drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of letter [ ] Change order [ ] _____

COPIES	DATE	NO.	DESCRIPTION
1	10-Jun-02	--	Tier 1 Evaluation

VIA US Mail: [ ] Regular [ ] Next Day [ ] 2nd Day [X] Certified

Federal Express: [ ] Priority Overnight [ ] Standard Overnight [ ] 2nd Day [ ] Saturday Delivery

THESE ARE TRANSMITTED as checked below

[ ] For approval [ ] Approved as submitted [ ]
[X] For your use [ ] Approved as noted [ ]
[ ] As requested [ ] Returned for corrections [ ]
[ ] For review and comment [ ] Return _____
[ ] FOR BIDS DUE _____ 19 _____ [ ] PRINTS RETURNED AFTER LOAN TO U

RECEIVED
2002 JUN 12 AM 10:16
STATE FIRE MARSHAL

REMARKS

Mr. Krueger,
Attached is the Tier 1 Evaluation Report for this facility.

COPY TO _____

SIGNED *Andrew Shrock*

If enclosures are not as noted, kindly notify us at once.

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

March 11, 2002

MATTHEW JORDAN
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: GASTOWN #3642
1997 UPGRADE OF UST SYSTEM AND
SUBSEQUENT RELEASE TO CREEK
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
FORMER INCIDENT # 8770081-01
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Jordan:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed the facility file, including the Site Assessment report dated May 1998. Based on our review, BUSTR requests the following information:

1. Provide a map that accurately identifies the locations of all on-site utilities that may act as a route of migration, in accordance with OAC 1301:7-9-13 (I) (3) (c), effective September 1992.
2. The Site Assessment report must include a summary of the previous closure sampling and analysis data, in accordance with OAC 1301:7-9-13 (I) (3) (d).
3. The Site Assessment report must include a determination of the horizontal and vertical extent of the release associated with the former piping and dispenser area, in accordance with OAC 1301:7-9-13 (I) (3) (e) and (f).
4. Please provide information concerning the December 1997 through January 1998 Immediate Corrective Action that was performed to cleanup and investigate the gasoline release to the nearby creek.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File

Speedway
SUPERAMERICA.

RECEIVED
2002 JAN -2 AM 8:45
STATE FIRE MARSHAL

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

CERTIFIED MAIL #70001670000886632097

December 27, 2001

Mr. Doug Thompson
Bureau of Underground Storage Tanks
BUSTR
LUCAS COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway #3642
939 East River Road
Rossford, Ohio
Lucas County
Incident #87000087-N00004

Dear Mr. Thompson:

We, Speedway SuperAmerica LLC, hereby inform BUSTR of our election to apply the 1999 CA rule (effective March 31, 1999) to the release site referenced in this correspondence. We also acknowledge that once this election is made, it cannot be reversed. This notification is provided in accordance with current BUSTR policy.

If you have any questions or concerns, please do not hesitate to call the undersigned at (937) 863-6510.

Sincerely,
Speedway SuperAmerica LLC

Matthew Jordan
Environmental Representative

Copy
Carol DeVore – PUSTRCB
Adam Tucker - Parsons
Remediation File - Government Correspondence
Remediation File – Reimbursement

PARSONS

Parsons Engineering Science, Inc. • A Unit of Parsons Infrastructure & Technology Group Inc.
19101 Villaview Road, Suite 100 • Cleveland, Ohio 44119-3088 • (216) 486-9005 • Fax (216) 486-6119 • www.parsons.com
P:\SSA\3642_Rossford\Docs\Doug Thompson letter.doc

RECEIVED
2001 APR 16 A 11:58
STATE FIRE MARSHAL
BUSTR

CERTIFIED MAIL

11 April 2001

Mr. Doug Thompson
Site Coordinator
Bureau of Underground Storage Tank Regulations
WOOD COUNTY CORRECTIVE ACTIONS
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009

RE: Speedway Unit #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00004 (2)

Dear Mr. Thompson:

Parsons Engineering Science (Parsons), on behalf of Speedway SuperAmerica LLC (SSA), is submitting the following information for your review concerning the Bureau of Underground Storage Tank Regulations (BUSTR) letter dated 27 March 2001. As stated in the letter, a site assessment was requested by BUSTR on 14 January 1998 and BUSTR has no record of the site assessment completion. Site assessment activities were conducted at the site in May 1998 in response to BUSTR's request. The report was submitted to BUSTR on 13 August 1998. A copy of the site assessment report and the original cover letter is attached.

In addition, BUSTR has no information related to the suspected release reported 29 June 2001 due to statistical inventory reconciliation (SIR) records that did not reconcile. Please find attached the results of the tightness test conducted in response to the suspected release reported due to SIR records that did not reconcile.

Please review this information and SSA will contact you in a few weeks to discuss any additional activities. If you have any further questions, please feel free to contact the undersigned at (216) 486-9005.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.

Adam C. Tucker

Adam C. Tucker, P.G.

ACT/dee
Attachments
cc: Julius Blanco - SSA
File 732903

Speedway SUPERAMERICA

STORE# 3642 F# 0
REMEDIATION

Speedway SuperAmerica LLC
P. O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873
Fax 937-323-6278

August 13, 1998

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081

Dear Mr. Thompson:

Please find enclosed the site assessment report for the above referenced site. The site assessment was completed as a result of an earlier release involving a leak from a dispenser filter which overflowed a containment sump.

Two additional soil borings were completed in addition to one boring and a monitoring well completed during an earlier investigation (ATC Associates, July, 1997). Detectable hydrocarbon concentrations were encountered in one boring (ES-2), however all concentrations were below Category 2 action levels.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

March 27, 2001

JULIUS BLANCO
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: GASTOWN #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
FORMER INCIDENT #8770081-~~03~~ 01
RELEASE #87000087-N0000~~4~~ 2

RE: NO ANSWER TO INFORMATION REQUEST

Dear Mr. Blanco:

On January 14, 1998, the Bureau of Underground Storage Tank Regulations (BUSTR) sent you a letter requesting information needed to complete your site assessment requirements due to free petroleum product being discovered off site. As of this date you have not provided the requested information. To be in compliance with Ohio Administrative Code (OAC) 1301:7-9-13, effective September 1992, you must supply this information within 30 days from the date of this letter.

Additionally, on June 29, 2000, BUSTR was notified that statistical inventory reconciliation records did not reconcile and you were sent a suspected release letter dated July 3, 2000 in which you were directed to perform a site check in accordance with OAC 1301:7-9-13(E) and (F). To date, BUSTR has not received a response from you. To be in compliance with OAC 1301:7-9-13, effective March 31, 1999, you must supply this information to our bureau within 30 days from the date of this letter.

Failure to comply with either of the above-mentioned criteria will result in a recommendation to the State Fire Marshal that he refer this matter to the Attorney General for enforcement seeking injunctive relief and maximum civil penalties for each day you have remained in violation of OAC 1301:7-9-13.

To assist you in tracking the above-mentioned incidents, I have enclosed copies of both the January 14, 1998 and July 3, 2000 letter.

An order form and other publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5122.

Sincerely,

Doug Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, RS, MSEPH, Wood County Combined General Health District

Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942

George V. Voinovich
Governor

Donna Owens
Director

January 14, 1998

PHIL PAVLOVICZ
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: SPEEDWAY #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
INCIDENT #8770081-~~03~~ 01

RE: SITE ASSESSMENT REQUIRED

Dear Mr. Pavlovicz:

On December 31, 1997, the Bureau of Underground Storage Tank Regulations (BUSTR) was notified that free product was discovered in the storm sewer at this site. This occurrence meets a definition of a release found in Ohio Administrative Code (OAC) 1301:7-9-13(B)(2). You are required to perform a site assessment as prescribed in OAC 1301:7-9-13(I)(3) and explained in BUSTR's *Corrective Action Guidance Document.* These documents describe the activities that must be performed during the site assessment and the information which is to be submitted to BUSTR in the site assessment report. You must submit the site assessment report within 180 days of reporting the release or suspected release.

All excavated soils shall be managed as petroleum contaminated soils (PCS) unless laboratory analysis indicates otherwise. Underground storage tank owners or/and operators are therefore requested to complete and submit the enclosed "Soil Disposal/Treatment Notification Form". The completion of this form, along with all applicable supporting information and documentation, will allow the BUSTR staff to verify proper PCS disposal. A separate form must be completed for each soil pile or containerized soil group.

An order form is enclosed to assist you in obtaining the documents described in this letter and other publications which may help you understand the requirements for compliance with BUSTR's rules and regulations.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5122.

Sincerely,

Doug Thompson

Doug Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, Wood County Health Department

SITE LISTING UPDATE FORM

EXISTING INCIDENT #: 87[redacted]081 - 03 (01) - F[redacted]985

FACILITY NAME: Speedway #3642 NEW FACILITY INFO? ____ YES ____ NO (Update on back)

[1] REASON FOR LISTING UPDATE

___ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
___ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
___ [9] Other:

[2] NEW SITE LISTING DATA

INCIDENT #: _____ - _____ - _____
REPORT NUMBER FAC TRK# SPRC

EMERGENCY RESPONSE: ___ YES ___ NO BY: ___ PH (_____) ___ CERA ___ USEPA

STATUS: ___ RPT ___ SUS ___ NRS ___ DIS (X CON) ___ ICA ___ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* X 2

CLASSIFICATION: ___ A ___ B ___ C X D LTF ELIGIBILITY: (CIRCLE) (1) 2 6 ___ OTHER

SITE COORDINATOR: COCA

[3] PCE DATA

DISP/TREAT _____ LOC: _____ CUBIC YARDS: _____

[4] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)

(First sentance - why is it a 1? Second sentance - who is doing what at this time)

[5] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $100,000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement; amount: _____.

[6] SITE MANAGEMENT REMARKS

(BUSTR actions needed/taken, reports expected, etc.)

CON Release ltr sent to PO.

[7] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT

(For use by supervisor)

UPDATE SUBMITTED BY: Pat DATE: 1-14-98

APPROVED: [signature] DATE: 1-20-98 ENTRY: _____ DATE: JAN 22 1997

OhioEPA
State of Ohio Environmental Protection Agency
Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402-9398
(419) 352-8461 FAX(419) 352-8468

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Bob Rhodes Eric Larson

COMPANY/DIVISION: SEM/Bustr Wood Co EMA

FAX NUMBER: 614-752-7942 419-354-6382

FROM: Mike Gerber

DIVISION: Ohio EPA ER

TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 6

SENDER'S (SECRETARY'S) SIGNATURE: _____

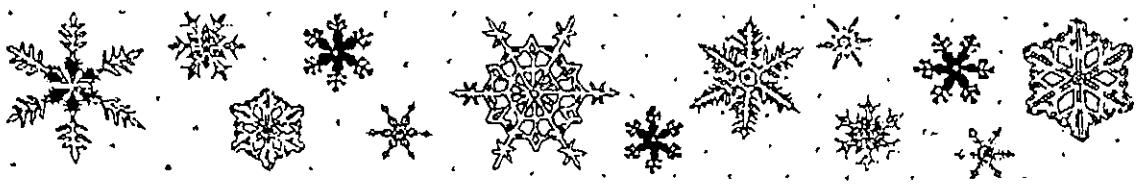
DATE: 01/06/97

_____
SUPERVISOR'S SIGNATURE IF FAXING MORE THAN 20 PAGES

COMMENTS:

Spill # 9712-87-4975

SPEEDWAY



OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

SPILL # : 9712-87-04975 **PAGE: 1**

SPILL STATUS	F02	**OSC**	GERBER
	DATE	**TIME**	
REPORTED	12/31/97	19:11	
DISCOVERED	12/31/97	18:36	
OCCURRED	/ /		
REPORTED BY	FAYE BALSMEYER		
TITLE	DISPATCHER		
AFFILIATION	FD		
TELEPHONE	419-666-5230		

---ENTITY INFORMATION---

NAME/COMPANY SPEEDWAY
ADDRESS 939 DIXIE HIGHWAY
ROSSFORD-OH-43460
TELEPHONE 419 666 4255
SPCC PLAN REQD N **SPCC PLAN IN EFFECT** N

---CONTACTS---

NAME	TITLE	PHONE #
CHIEF JOHN VEDRA	ROSSFORD FIRE DEPARTMENT	419 536 4629
TOM BENTLEY	WOOD CO.EMA REP.	419 354 9269
VERN ORR	SFM BUSTR SUPERVISOR	800 686 2878

---REPRESENTATIVES---

NAME	TITLE	PHONE #
DAVID THOMAS	CONSTRUCTION SPEC.	419 421 3274
PHILIP PAVLOVICZ	ENVIR. ENGINEER	937 322 1873
LYNDA LANEY	SPEEDWAY STORE #3642 MANAGER	419 666 4255

---SPILL LOCATION INFORMATION---

COUNTY WOOD **LATITUDE** 413616.6
CITY/TWP ROSSFORD **LONGITUDE** 833344.8
LOCATION 939 DIXIE HIGHWAY (STATION # 3642)
WATERWAY GRASSEY CREEK VIA STORM SEWER
LENGTH 0.125
LAND AREA FILL UNDER DISPENSER PUMPS.
PRE RESPONSE ACTION NONE

---PRODUCTS SPILLED---

PRODUCT	AMOUNT	UOM	TYPE
GASOLINE	100.0	GAL	H

SOURCE FIXED FACILITY BUSINESS V-TANK STORAGE (UST)
CAUSE GASKET FAILURE
REASON MAINTENANCE FAILURE
MEDIA AFFECTED SURFACE WATER/STORM SEWERS

---SAMPLE INFORMATION---

---SUPPLIES USED---

---SUPPORTING DOCUMENTS---

---REFERRALS---

NAME	AGENCY	DATE SEEN
VERN ORR	SFM BUSTR SUPERVISOR	12/31/97

OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

SPILL # : 9712-87-04975 **PAGE: 2**

---NOTIFICATIONS---

AGENCY NAME	DATE SENT	PERSON
RTK	/ /	LUFKIN
DSW/WW	/ /	WICK
RTK	/ /	LUFKIN
DSW/WW	/ /	WICK

---REMARKS---

12/31/97

OSC GERBER

2224 HOURS- THE GASOLINE WAS DISCOVERED BY RESIDENTS IN THE APARTMENTS TO THE EAST OF THE SPEEDWAY STATION #3642 (LYNDA LANEY; 937 322 1873). THE ROSSFORD FIRE DEPT. (CHIEF JOHN VEDRA; 419 536 4629) RESPONDED AND DISCOVERED FREE PRODUCT DISCHARGING INTO GRASSY CREEK FROM A STORM SEWER LINE ADJACENT TO THE SPEEDWAY PROPERTY. THE LEL IN THE STORM SEWER CATCH BASINS DOWNSTREAM OF THE APARTMENT COMPLEXES WAS FOUND TO BE OVER 28%, AND THERE WAS A STRONG GASOLINE ODOR THROUGHOUT THE AREA. THE STORM SEWER LINE RAN UNDER THE SPEEDWAY DISPENSER ISLAND AREA, AND THE MANAGER OF THE STATION WAS REQUESTED BY THE FIRE DEPARTMENT TO SHUT THE PUMPS OFF, AND CONTACT THE MANAGEMENT OF THE STATION. AFTER RECEIVING THE CALL FROM E.R. D.O. BONNER, I CONTACTED THE ROSSFORD F.D. (THROUGH FAY BALSMEYER; 419 666 5230) WHO UP-DATED ME ON THE INCIDENT. THE FIRE DEPARTMENT WAS IN THE PROCESS OF INSTALLING SORBENT MATERIAL IN THE CREEK DOWNSTREAM OF THE DISCHARGE AND THE SR 65 OVERPASS. WHEN I ARRIVED ON SCENE, THE FIRE DEPARTMENT HAD CLOSED OFF THE ROADWAYS AROUND THE STATION, AND THE STATION WAS SHUT DOWN. MS. LANEY WAS IN THE PROCESS OF CONTACTING MR. DAVID THOMAS (MARATHON OIL CO. REP.; 419 421 3274) AND MR. PHILIP PAVLOVICZ (EMRO MARKETING ENVIR. ENG.; 937 391 5282). FREE PRODUCT WAS OBSERVED DISCHARGING FROM THE STORM SEWER TILE, AND FLOWING UNDER THE ICE AND SORBENT BOOM AT THE TILE. DOWNSTREAM OF THE SR 65 BOOM, FREE PRODUCT APPEARED TO BE FROZEN IN THE ICED OVER CREEK, AND THE PRODUCT MIGRATION APPEARED TO BE STOPPED. WHILE ON SCENE, I CHECKED THE DISPENSER PUMPS AND GROUND WATER MONITORING WELLS IN THE TANK CAVITY. AN INCH OF FREE PRODUCT WAS DISCOVERED UNDER ONE OF THE PUMPS IN THE CONTAINMENT CONTAINER. PRODUCT STAINING ON THE WALLS OF THE CONTAINER SHOWED THAT THE PRODUCT LEVEL HAD AT ONE TIME BEEN UP TO THE BOTTOM OF THE PIPES LEADING TO THE PUMPS. MS. LANEY STATED THAT SPEEDWAY MAINTENANCE WORKERS HAD BEEN WORKING ON THE DISPENSER DURING THE DAY, BUT LEFT EARLY DUE TO THE NEW YEARS HOLIDAY. THE PUMP WAS PUT BACK IN SERVICE. MS. LANEY ALSO STATED THAT THE STATION WAS HAVING PROBLEMS WITH ITS TANK ALARMS, WHICH KEEP GOING OFF. NO PRODUCT WAS DETECTED IN THE MONITORING WELLS. WHILE ON SCENE, I CONTACTED THE SFM BUSTR, AND WAS CONTACTED ON SCENE BY MR. VERN ORR (SFM BUSTR SUPERVISOR) WHO WAS INFORMED OF THE INCIDENT, AND PROVIDED THE COMPANY CONTACT NAMES AND PHONE NUMBERS. MR. ORR WILL HAVE SOMEONE FOLLOW-UP ON THE SITE ON 01/02/98, AND WILL CONTACT MR. PAVLOVICZ TONIGHT. AT 0930 HOURS, I WAS CONTACTED BY MR. PAVLOVICZ WHO WAS INFORMED OF THE INCIDENT, AND REQUIRED TO STOP THE MIGRATION OF GASOLINE INTO THE STORM SEWER AND CREEK. MR. PAVLOVICZ WAS PROVIDED THREE LOCAL CLEAN-UP CONTRACTORS, AND CONTACTED PHILIPS ENVIRONMENTAL SERVICES (800 433 6754). DUE TO THE HOLIDAY, PHILIPS COULD NOT RESPONDED UNTIL AM ON 01/01/98. AFTER BEING INFORMED OF THE DELAY IN RESPONSE BY PHILIPS, I RECHECKED THE PRODUCT MIGRATION IN THE CREEK. AT THIS TIME THE ICE COVERING THE WATERWAY WAS PREVENTING THE MIGRATION OF GASOLINE ANY FARTHER THAN 10 FEET FROM THE SR 65 SORBENT BOOM. IT WAS DETERMINED BY CHIEF VEGRA, MR. TOM BENTLEY (WOOD CO. EMA; 419 288 2741), AND MYSELF THAT THE PRODUCT RECOVERY COULD WAIT UNTIL AM ON 01/01/98. MR. PAVLOVICZ WAS CONTACTED WITH THE UP-DATE, AND AGREED TO HAVE PHILIPS BE ON SITE BY 0800 HOURS. MR. PAVLOVICZ ALSO STATED THAT HE WOULD RESPONSE, AND OVER SEE THE CLEAN-UP OF THE WATERWAY.

OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

SPILL # : 9712-87-04975 **PAGE: 3**

FURTHER SITE REMEDIATION WILL OCCUR ON 01/02/98 UNDER THE GUIDANCE OF THE SFM BUSTR. AT THIS TIME THE WATER TRAPS IN THE STORM SEWER LINES LEADING FROM THE APTS. HAVE BEEN FILLED, AND THE GASOLINE PUMPS SHUT DOWN (STOPPING THE LEAK).

01/05/98

OSC GERBER

AT 1101 HOURS I RECEIVED A PHONE MESSAGE FROM MR. PAVLOVICZ WHO STATED THAT ON 01/01 THROUGH THE FOLLOWING WEEKEND THE PRODUCT HAD BEEN VACUUMED OUT OF THE STORM SEWER TILE, AND REMOVED FROM THE CREEK. AT THIS TIME THE RELEASE WAS THOUGHT TO BE FROM A PUMP SEAL WHERE A GASKET WAS MISSING, AND A OVERFLOW OF THE CONTAINMENT CONTAINER UNDER THE PUMP. EARLIER IN THE DAY, I HAD BEEN CONTACTED BY MR. BOB RHODES (SFM BUSTR) WHO STATED THAT HE HAD BEEN ON SCENE ON 01/02, AND THAT THE CLEAN-UP WAS WELL UNDER WAY. AT THIS TIME THE SFM/BUSTR WILL FOLLOW-UP ON THE SITE. AT 0800 HOURS, I CONTACTED MR. ERIC LARSON (WOOD CO. EMA DIR.; 419 354 9269), AND UP-DATED HIM ON THE RESPONSE.

OHIO EPA, EMERGENCY RESPONSE SECTION
DISTRICT OFFICE INVESTIGATION REPORT

TIME ACCOUNTING INFORMATION

SPILL #: 9712-87-04975 PAGE: 4/1

OSC GERBER

DATE 12/31/97 VISIT NO 1 TOTAL MILEAGE 41

ARRIVAL TIME 2000 DEPARTURE TIME 2154

TIME CODE	REGULAR	OVERTIME	TOTAL
0969	0.00	1.90	1.90
0022	0.00	1.20	1.20
		TOTAL TIME	3.10

TOTAL TIME 3.10 TOTAL MILEAGE 41

GRAND TOTAL
TOTAL TIME 3.10 TOTAL MILEAGE 41

OhioEPA INITIAL POLLUTION INCIDENT REPORT

SPILL I.D #: 9712-87-4975 DISTRICT: NW

REPORTED BY:	FAYE BALSMEYER	REPORTED:	12/31/97 19:11
TITLE:	DISPATCHER	DISCOVERED:	12/31/97 18:36
TELEPHONE:	419-666-5230	OCCURRED:	/ / 0
AFFILIATION:	FD		

DID SPILLER REPORT? N COMPLAINT? N PRIORITY: 2

SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH 0
TELEPHONE:

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: UNKNOWN
REASON: UNKNOWN REASONS
LATITUDE: 0 LONGITUDE: 0 WATERWAY AFFECTED:
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

REMARKS

DISPATCHER REPORTED THAT THERE IS A STRONG ODOR OF GASOLINE IN THE SEWER WHICH THEY THINK IS COMING FROM THE SPEEDWAY GAS STATION.

OSC GERBER NOTIFIED

JAY JONES OF WTOL TV CALLED 1/1/98 AND ASKED IF THERE WERE ANY CONTAMINATION TO THE CREEK I TOLD HIM THAT THE GAS WAS FREEZING IN THE ICE AND COUSINS WERE DOING PRODUCT RECOVERY 1/1/98.

OhioEPA INITIAL POLLUTION INCIDENT REPORT

SPILL I.D #: 9712-87-4975 / 1 DISTRICT: NW

REPORTED BY:	PHIL PAVLOVICZ	REPORTED:	12/31/97 21:39
TITLE:	ENVIRONMENTAL ENGINE	DISCOVERED:	12/31/97 16:00
TELEPHONE:	614-881-4703	OCCURRED:	/ / 0
AFFILIATION:	COMPANY		

DID SPILLER REPORT? Y COMPLAINT? N PRIORITY: 2

SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH 43460
TELEPHONE: 419-666-2455

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: LEAK
REASON: DAMAGED EQUIPMENT
LATITUDE: 0 LONGITUDE: 0 WATERWAY AFFECTED: TRIBUTARY TO MAUMEE RIVER
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

REMARKS

CALLER REPORTED THAT THEY HAD A GASOLINE SPILL BECAUSE OF THE GASOLINE DISPENSER WAS LEAKING.

GERBER CALLED AND REPORTED THAT GASOLINE IS FREEZING IN THE ICE AND THAT COUSINS IS GOING TO DO THE PRODUCT RECOVERY. PHIL'S PAGER # 937-391-5282, CHIEF VERDA OF FD @ 419-536-4629 WILL SHOW THE CONTRACTOR WHERE TO CLEANUP. EMA TOM BENTLEY OR ERIC LARSON COULD ALSO ASSIST. I CALLED PHIL AND GAVE HIM THE SPILL #.

SUSPECTED RELEASE REPORT

REPORT #: 8 1 7 1 7 0 1 0 1 8 1 1 - 0 0 3 0 1 DATE: 12-31-97

[1] PERSON REPORTING THE RELEASE — TIME: 1955

NAME: MIKE GERBER TITLE: ES II PHONE: (419) 351 3867
AGENCY/COMPANY: OEPA RELATION TO SITE: RESPONDER
ADDRESS: CITY: BOWLING GREEN ST: OH ZIP:
REMARKS:

[2] SUSPECTED RELEASE LOCATION

MULTIPLE SUSPECTED SOURCES? ___ YES X NO ___ UNDETERMINED COUNTY: WOOD
FACILITY: SPEEDWAY # 3642 (EASTOWN) FACILITY ID#: 870087
ADDRESS: 939 RIVER RD
CITY: ROSSFORD ST: OH ZIP: 43460 PHONE: (419) 666 5230
UST OWNER: EMRO MARKETING PHONE: (800) 255 6690
UST OPERATOR: EMRO MARKETING PHONE: ( )
REMARKS: He advised that maintenance people were there today and discovered product under the dispenser pan.

INC # 8770081-00(01)(02)

FIRE DEPT: ROSSFORD CONTACT: JOHN VEDRA PHONE: (419) 666 0210

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (Check all that apply)

____ Inventory control results indicate a release may have occurred.
____ Testing, monitoring or sampling results indicate a release may have occurred.
____ Unusual operating conditions observed (e.g., sudden drop in tank volume).
X Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).
____ Spill or overfill of petroleum in excess of 25 gallons.
____ Soil/Groundwater contamination discovered during non-closure related investigation.
____ Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS:

*******COMPLETE REVERSE SIDE*******

[10] REPORT DISPOSITION (Indicate actions taken on reverse side)

TAKEN BY: Rhoades / Ord EMERGENCY ACTION? X YES ___ NO BY: ___ FM X OEPA (Gerber NWDO
COORD: ___ REPORT/ACTION APPROVED: ___ DATE: ___
ENTERED BY: ___ DATE: ___

CIRCLE STATUS: RPT SUS DIS (CON) ICA ICR ICC SAS SAC CAS CAP NFA PRIORITY: (1) 2 CLASS: A B C (D) LTF: (1) 2 OTHER: ___

==========824==========
1/01/98 7:40A
==========
12/31/97 7:54P
12/31/97 8:04P
MESSAGE #77 CONT...
PAGING O/C
--------12/31/97 8:04P 6 ----------
DELIVERED TO: VERN
==========
12/31/97 7:53P
12/31/97 8:04P
Emergency Y/N?:Y
IF NO ADVISE CALLER TO CALL BACK
DURING OFFICE HOURS:Y
Caller : MIKE GERBER
Area/Ph#: 419 351 3867
Are you reporting a spill, release or
hazmat Emergency? Y/N:Y
Are you asking for assistance from
bureau? Y/N:Y
SEE DISPATCH INSTRUCTIONS:Y
Location of incident:ROSSFORD FIRE DEP
419 666 5230
City/County: WOOD COUNTY
DESCRIPTION OF INCIDENT: GAS IN STORM
SEWER SYSTEM, TANK ALARM AT SPEEDWAY
GAS STATION, PROBABLE LEAK IN
UNDER-GROUND TANK. PLEASE RESPOND
12/31/97 7:54P 48 ,,,5202811
==========
12/31/97 12:17P
12/31/97 12:17P
Emergency Y/N?:WRONG NUMBER
IF NO ADVISE CALLER TO CALL BACK
DURING OFFICE HOURS:
Caller :
Area/Ph#:
Are you reporting a spill, release or
hazmat Emergency? Y/N:
Are you asking for assistance from
bureau? Y/N:
SEE DISPATCH INSTRUCTIONS:
Location of incident:
City/County:
DESCRIPTION OF INCIDENT:
==========824==========

********** END OF MESSAGES **********

OHIOEPA

State of Ohio Environmental Protection Agency

P.O. 1049, WaterMark Drive
Columbus, Ohio 43216-1099
(614) 644-3020
Fax (614) 644-3250

George V. Voinovich
Governor

FACSIMILE INFORMATION

ROUTE TO: "ROR" Rhodes PHONE #_____

COMPANY NAME: RUSTR

COMPANY FAX NUMER: _____

FROM: "ER"

NUMBER OF PAGES: _____ (INCLUDING THIS PAGE)

OHIO EPA FACSIMILE NUMBER 614-644-3250

OFFICE NUMBERS

(✓) 614-644-3196 (ER)
( ) 614-644-3042 (SIU)
( ) 614-644-3063 (PCB)
( ) 614-644-2924 (DERR)
( ) 614-644-2260 (SERC/RTK)

SPECIAL INSTRUCTIONS: _____

SENDERS INFORMATION: (AFTER TRANSMISSON) ORIGINAL SHOULD BE:

( ) DISCARDED OR ( ) PICKED-UP:

RECEIVER: IF YOU DO NOT RECEIVE THE NUMBER OF PAGES SPECIFIED ABOVE OR RECEIVE POOR COPY, PLEASE NOTIFY US.

NOTE TO RECEIVER:

Revised 1/14/97

OhioEPA INITIAL POLLUTION INCIDENT REPORT

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SUSPECTED SPILLER: SPEEDWAY
MAILING ADDRESS: 939 DIXIE HIGHWAY
ROSSFORD OH
TELEPHONE:

COUNTY: WOOD TOWNSHIP: ROSSFORD
LOCATION: 939 DIXIE HIGHWAY
SOURCE: OTHER CAUSE: UNKNOWN
REASON: UNKNOWN REASONS
LATITUDE: LONGITUDE: WATERWAY AFFECTED:
MEDIA AFFECTED: SURFACE WATER/STORM SEWERS

DID YOU TELL THE SPILLER TO CALL THE N.R.C.? N LOCAL EPC? N BUSINESS:Y SARA REPORT: Y
RECEIVED BY: BONNER, RON

PRODUCT SPILLED

PRODUCT	AMOUNT	UOM	REPORTABLE QTY	SIZE	TYPE	EHS
GASOLINE				U	H	

OTHER AGENCIES NOTIFIED

AGENCY	DATE	TIME	PERSON
RTK			LUFKIN
DSW/WW			WICK

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12-31-97 755 PM

(265) 3500 08244

Mike Gerber OEPA
(419) 351 3867
Reporting Hog Mail
Rossford F.D. Wood Co.
(419) 666 5230
Gas in storm sewer system
"Lenit" DE 3642 "Speedway" Suspected Source
(419) 666 4255
Maintenance People there today.
Product under Dispenser Pan

Grassy Creek has product in it.
Apartment has fumes.
Will put band aide

Phil Pavlocizz
Dave Thompson
(419) 491 3274
(800) 746 4646 200 38 48 Pen #
Manager Linda

Enron 1(800) 255 6690 #2
"Bob Kahley"
(614) 864-5910
"Julius Belanco"

~~2700~~

2/5/97 877.0081-00 SOS

TIT indicates system Passed

01 ICR

2-5-97 W/O Removal & Disp Grad line

removal S/A ltr sent to O/O

2-5-97 02 SOS

EPA NW = 419-352-8461

BRUCIE DUNLEAVY

DIVISION OF STATE FIRE MARSHAL
BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS

FIELD ACTIVITY REPORT

Site No.870081-04~~/~~03

Date: January 2, 1998 Time: 07:58
Weather: Clear
County: Wood Temperature:40 °F

Site Name: Speedway #3624 (Gastown)
Location: 939 River Rd., Rossford, Ohio 43460
Personnel:
BUSTR: RHOADES
Other: GERBER (OEPA) PHIL PAVLOVICZ (EMRO)

Purpose of Visit: Report from Mike Gerber (OEPA DERR) concerning free product in the creek next to the site

Findings/Actions: Gerber responded on 12/31/97 @ 1955 hrs. on a report of free product in the creek next to the property. Rhoades responded on 1/2/98 arrived on the scene @ 1100. Phil Pavlovicz of EMRO was on site supervising Cousins Environmental doing cleanup in the creek and storm sewer. Tanknology was doing a precision test on the systems. Maintenance found a leaking filter on the north pump. There was also a line leak detector problem. A 48" tile runs under the property and carried the product to the creek. It was steam cleaned by Cousins.

Recommendations: Continued monitoring of the site depending on the outcome of the precision test.

Prepared by:
Date:

Speedway SUPERAMERICA.

Speedway SuperAmerica LLC
P. O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873
Fax 937-323-9278

August 13, 1998

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081 - 01

Dear Mr. Thompson:

Please find enclosed the site assessment report for the above referenced site. The site assessment was completed as a result of an earlier release involving a leak from a dispenser filter which overflowed a containment sump.

Two additional soil borings were completed in addition to one boring and a monitoring well completed during an earlier investigation (ATC Associates, July, 1997). Detectable hydrocarbon concentrations were encountered in one boring (ES-2), however all concentrations were below Category 2 action levels.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

1998 AUG 11 P 12:07
FILE ROOM
BUSTR

Emro Marketing Company

P.O. Box 1500
Springfield, Ohio 45501

207 Walter Street
Springfield, Ohio 45506
Telephone 937-322-1873

8770081-01

November 14, 1997

Paul D. Thompson
Ohio Department of Commerce
Division of State Fire Marshal
6606 Tussing Road
Reynoldsburg, Ohio 43068

RE: Speedway Store #3642
939 East River Road
Rossford, OH
BUSTR Incident # 8770081-01

97 NOV 19 A 8:01

Dear Mr. Thompson:

Please find enclosed the UST system line and dispenser closure, used oil UST closure and site assessment report for the above referenced site. The site assessment was completed as a result of an earlier suspected release involving vapors in a storm sewer line beneath the site, and was done in conjunction with site remodeling.

The storm sewer line at this site runs directly beneath the dispenser islands (Figure 2). During product line and dispenser replacement, it was found that the backfill used in the sewer line trench was composed primarily of construction debris and other highly permeable materials such as sand and gravel. A small product line leak directly over this area (adjacent to the dispenser island) traveled directly down into the storm sewer and resulted in elevated hydrocarbon vapors in the storm line. During the construction activities it was noted that soils immediately adjacent to the backfill material were not affected to any great extent by petroleum constituents. This act is shown by the low concentrations encounterd in the soil boring logs. The impacted backfill was left in place, as removal would have constituted over-excavation.

Groundwater was only encountered in one boring during the site assessment and only one monitoring well (MW-1) was installed. Groundwater from this well did not contain detectable levels of petroleum hydrocarbons. Samples from all soil borings indicated that the soils outside the sewer line trench were below the Category 3 action levels, with soils composed mainly of silty clay.

The source of the contamination was removed with the upgrade of the product lines and dispensers and subsequent installation of spill protection and dispenser pans. With the source removed, remaining contamination in the very permeable backfill of the storm sewer line trench will most likely bio-attenuate over a relatively short period of time.

If you have any questions concerning any of the information contained in this report please contact me at (937) 322-1873, ext 106.

Sincerely,

Phil J. Pavlovicz
Environmental Engineer

PJP

cc: M. Oliver, Emro
K. Harris, Emro
File

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942

George V. Voinovich
Governor

Donna Owens
Director

December 22, 1997

PHIL PAVLOVICZ
EMRO MARKETING CO
PO BOX 1500
SPRINGFIELD OH 45501

SITE: SPEEDWAY #3642
939 EAST RIVER RD
ROSSFORD OH
WOOD COUNTY
INCIDENT #8770081-01

RE: SITE ASSESSMENT REQUIRED

Dear Mr. Pavlovicz:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment" dated October 31, 1997. BUSTR has determined that soil and/or ground water contamination exists in excess of the action levels calculated for this site. You are required to perform a site assessment as prescribed in Ohio Administrative Code 1301:7-9-13(I)(3) and explained in BUSTR's *Corrective Action Guidance Document.* These documents describe the activities that must be performed during the site assessment and the information which is to be submitted to BUSTR in the site assessment report. You must submit the site assessment report within 180 days of the day the release was reported.

All excavated soils shall be managed as petroleum contaminated soils (PCS) unless laboratory analysis indicates otherwise. Underground storage tank owners and/or operators are therefore requested to complete and submit a "Soil Disposal/Treatment Notification Form". The completion of this form, along with all applicable supporting information and documentation, will allow the BUSTR staff to verify proper PCS disposal. A separate form must be completed for each soil pile or containerized soil group.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5122.

Sincerely,

Paul D. Thompson
Environmental Specialist

xc: Site File
Chief John Vedra, Rossford Fire Department
Larry Sorrells, Wood County Health Department

CLOSURE ASSESSMENT REVIEW

OWNERSHIP OF TANKS	LOCATION OF TANKS
EMRO MARKETING CO.	SPEEDWAY # 3642
PO BOX 1500	939 E. RIVER RD.
SPRINGFIELD OH 45501	ROSSFORD OH
	WOOD COUNTY
ATTN: PHIL PAVLOVICZ	INCIDENT # 877008/-01

SYSTEM INFORMATION

Report Received Date: 11-19-, 1997

Removal/Abandonment Date: 7-9 & 7-15, 1997

TANK NO.	AGE	CAPACITY	MATERIAL	PRODUCT	STATUS TANK	STATUS PIPE	STATUS DISP
1		550	STEEL	W/O	Rm	N/A	N/A
2		6000	FRP	GASOLINE	still in use	Rm	Rm
3		6000	FRP	GASOLINE	still in use	Rm	Rm
4		8000	FRP	GASOLINE	still in use	Rm	Rm
5							
6							

Laboratory analytical results (highest results)

Benzene	1,700	ug/kg
Toluene	19000	ug/kg
E-benzene	11000	ug/kg
Xylene	76000	ug/kg
TPH	1000	mg/kg

SFSS Category 1 2 (3) 4 (CIRCLE ONE)

Overexcavation: Yes / (No) BUSTR Approval: Yes / No

Other analytes or comments:

Site Management Remarks: GASOLINE PIPING & DISPENSERS REMOVED & REPLACED. W/O UST REMOVED

STATUS: RPT ___ NFA ___ (ICR) ✓ Priority 2 Classification D LTF (1) 6 ___ Site Coordinator CA

Reviewed By: PAT Date: 12/18/97

Approved By: Kelly Gulf Date: 12/18/97

Entry By: D. Stover Date:

Effective Date June 22, 1994

REPORT INFORMATION

ACTIVITY	REPORTED INFORMATION		DATE RESOLVED
	YES	DEFICIENT	
FIELD			
Field screening methods/numbers	✓		
Field screening readings	✓		
SAMPLING			
Container/equipment/preservation	✓		
Sampling methods/tools	✓		
Locations/numbers of samples	✓		
Samples split for screen/lab	✓		
Water evacuation/24 hour wait	N/A		
LABORATORY			
Correct samples submitted	✓		
Chain of custody	✓		
Analyzed within holding time	✓		
Test methods/detection limits	✓		
Lab reports (date, analyst)	✓		
REPORT			
Owner, operator, facility information	✓		
Closure form complete (signed)	✓		
Wastewater and UST contents disposal	✓		
UST system disposal	✓		
Site map of facility and area	✓		

WASTE DISPOSAL INFORMATION

Laboratory analytical results (highest results)

Benzene < 5 ug/kg

Toluene < 5 ug/kg

E-benzene < 5 ug/kg

Xylene < 10 ug/kg

TPH < 10 mg/kg

Quantity 157 cubic yards/tons

Acceptable soil disposal (Yes) / No

Used as backfill ___

Landfill or remediation X

Stockpiled on-site ___

Location: _____

Comments: _____

Deficiency letter(s) sent: 1. _____, 19__ 2. _____, 19__

SUSPECTED RELEASE REPORT

REPORT #18171010181(01)-1-FY19R1 DATE: 12-31-97

ADDED RELEASE

[1] *PERSON REPORTING THE RELEASE* TIME: 1955

NAME: MIKE GERBER TITLE: ES II PHONE: (419) 351 3867

AGENCY/COMPANY: OEPA RELATION TO SITE: RESPONDER

ADDRESS: CITY: BOWLING GREEN ST: OH ZIP:

REMARKS:

[2] *SUSPECTED RELEASE LOCATION*

MULTIPLE SUSPECTED SOURCES? ___ YES X NO ___ UNDETERMINED COUNTY: WOOD

FACILITY: SPEEDWAY # 3642 (GASTOWN) FACILITY ID#: 870087

ADDRESS: 939 RIVER RD

CITY: ROSSFORD ST: OH ZIP: 43460 PHONE: (419) 666 5230

UST OWNER: EMRO MARKETING PHONE: (800) 255 6690

UST OPERATOR: EMRO MARKETING PHONE: ( )

REMARKS: He advised that maintenance people were there today and discovered product under the dispenser pan.

INC # 8770081-00(01)(02)

FIRE DEPT: ROSSFORD CONTACT: JOHN VEDRA PHONE: (419) 666 0210

[3] *CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE* (Check all that apply)

___ Inventory control results indicate a release may have occurred.
___ Testing, monitoring or sampling results indicate a release may have occurred.
___ Unusual operating conditions observed (e.g., sudden drop in tank volume).
X Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).
___ Spill or overfill of petroleum in excess of 25 gallons.
___ Soil/Groundwater contamination discovered during non-closure related investigation.
___ Closure (or replacement) assessment results indicate that a release has occurred.

OTHER CONDITIONS:
SITE ALREADY IN BUSTR CORRECTIVE ACTIONS DUE TO PREVIOUS CLOSURE SOIL EXCEEDING ACTION LEVELS. THIS RELEASE INFO APPEARS TO HAVE BEEN CAUSED BY & ORIGINATING FROM THE DISPENSER AREA THAT WAS "HOT" AT CLOSURE — RCK 3/11/02

*******COMPLETE REVERSE SIDE*******

[10] *REPORT DISPOSITION* (Indicate actions taken on reverse side)

TAKEN BY: Rhoades / Ord EMERGENCY ACTION? X YES __ NO BY: FM X OEPA (Gerber NWP

COORD: CSCA REPORT/ACTION APPROVED: Ord DATE: 1-5-98

ENTERED BY: DATE:

CIRCLE STATUS: RPT SUS DIS (CON) ICA ICR PRIORITY: 1 (2) CLASS: A B C (D) LTF: (1) 2 6
ICC SAS SAC CAS CAP NFA OTHER:

[4] *RELEASE INFORMATION*

DATE FIRST DETECTED:_____ TIME: _____ EST. QUANTITY: _____

SUBSTANCE RELEASED/DETECTED: ___ GASOLINE ___ DIESEL FUEL ___ KEROSINE ___ USED OIL

___ OTHER PETRO ___ HAZ SUBST ___ UNKNOWN EST. DURATION: _____

MEDIA EFFECTED (*Check all that apply*): ____ SOIL ____ PAVEMENT ____ BASEMENT ____ SEWERS

____ GROUNDWATER ____ SURFACE WATER ____ OTHER:_____ LTF

ELIGIBLE? ____ YES ____ NO *If no, why?*:_____

[5] *UST INFORMATION*

FACILITY REGISTRATION CURRENT? __ YES __ NO __ UNKNOWN (*Attach USTR's for all facilities*)

NUMBER OF TANKS:____ RELEASE DETECTION METHOD:_____

AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS	AGE	CAPACITY	-CONST.- MATERIAL	SUBSTANCE STORED	STATUS
31	6000	~~STEEL~~ FRP	GAS	CIU	31	550	FRP	WASTE	REM
31	6000	FRP	GAS	CIU					
31	8000	FRP	GAS	CIU					

PROBABLE LOCATION OF RELEASE: TANK NO.__ PIPE BETWEEN _____ AND _____

PROBABLE CAUSE:_____

OTHER POTENTIAL SOURCES AT THIS LOCATION:_____

[6] *SITE/HAZARD INFORMATION*

IMPORTANT SITE OR SURROUNDING AREA CHARACTERISTICS:_____

_____

PROXIMITY TO DRINKING WATER SOURCES:_____

_____

OTHER FIRE/WATER/HEALTH HAZARDS AT THE SITE:_____

_____

[7] *INITIAL RESPONSE ACTIONS BY OWNER/OPERATOR* (*Check all that apply*)

____ Release confirmation/Investigation
____ Initial corrective action procedures
____ Free product removal
____ Long term corrective action plan
____ Initial site investigation
____ Site/Assessment/Exposure Assessment
____ Unknown/undetermined
____ None

[8] WERE ANY OTHER AGENCIES NOTIFIED PRIOR TO BUSTR? (*As Reported*)

AGENCY:_____ NAME:_____ DATE:_____

[9] *BUSTR ACTIONS TAKEN*

CALLS TO: FD, LHD, LPW, ODH, OEPA/ER, OEPA/DPDW, OEPA/DGW, OTHER

FREE PRODUCT RECOVERY REPORT FORM

(Due monthly)

JUNE 2007

OWNER/OPERATOR AND FACILITY DATA

FACILITY INFORMATION:

COMPANY: Speedway SuperAmerica Unit #3642
ADDRESS: 939 Dixie Hwy
CITY: Rossford, Ohio
COUNTY: Wood
ZIP CODE: 43460
LAT/LONG: 41° 38' 18"N, 83° 33' 44"W
FACILITY ID #: 87000087

OWNER/OPERATOR INFORMATION:

COMPANY: Speedway SuperAmerica LLC
ADDRESS: PO Box 1500
CITY, STATE: Springfield, Ohio
ZIP CODE: 45501
CONTACT PERSON: Keith A. Hughes
PHONE: 937-863-7642

FREE PRODUCT RECOVERY ACTIVITIES

Details of the free product recovery system: Free product recovery via hand-bailing.

Description of free product recovery system malfunctions: Not Applicable

Description of changes or modifications to the free product recovery system: Not Applicable

FREE PRODUCT RECOVERY INFORMATION	
Type of free product:	Gasoline
Initial date free product discovered:	6/7/2007
Date & method of notification:	6/7/2007 (telephone)
Estimated quantity released:	N/A
Historic location(s) of free product:	MW-4
Current location(s) of free product:	MW-4
Product thickness per location:	See Table 1
Gallons of product recovered current month:	**0.01**
Gallons of product recovered (to date):	0.01
Gallons of water discharged current month:	5.0
Gallons of water discharged (to date):	5.0
Disposition of recovered water:	55-Gallon Drum

Additional Information:

Are free product recovery activities planned next month, if no, explain? Yes ☒ No ☐
SSA plans to continue monitoring the site until free product is no longer observed for three consecutive months.

MISCELLANEOUS DATA

THE FOLLOWING ITEMS MUST BE ATTACHED:

ADDITIONAL INFORMATION WHICH IS REQUIRED BY OAC 1301:7-9-13 OR ADDITIONAL INFORMATION WHICH CLARIFIES THE INVESTIGATION ACTIVITIES SHALL BE SUBMITTED AS APPENDICIES TO THIS REPORT.

TABLES:
TABLE 1 – PSH RECOVERY SUMMARY
TABLE 2 – MONITORING WELL PURGE LOG
TABLE 3 – BTEX/MTBE GROUNDWATER ANALYTICAL RESULTS

FIGURES:
FIGURE 1 – SITE VICINITY MAP
FIGURE 2 - SITE MAP

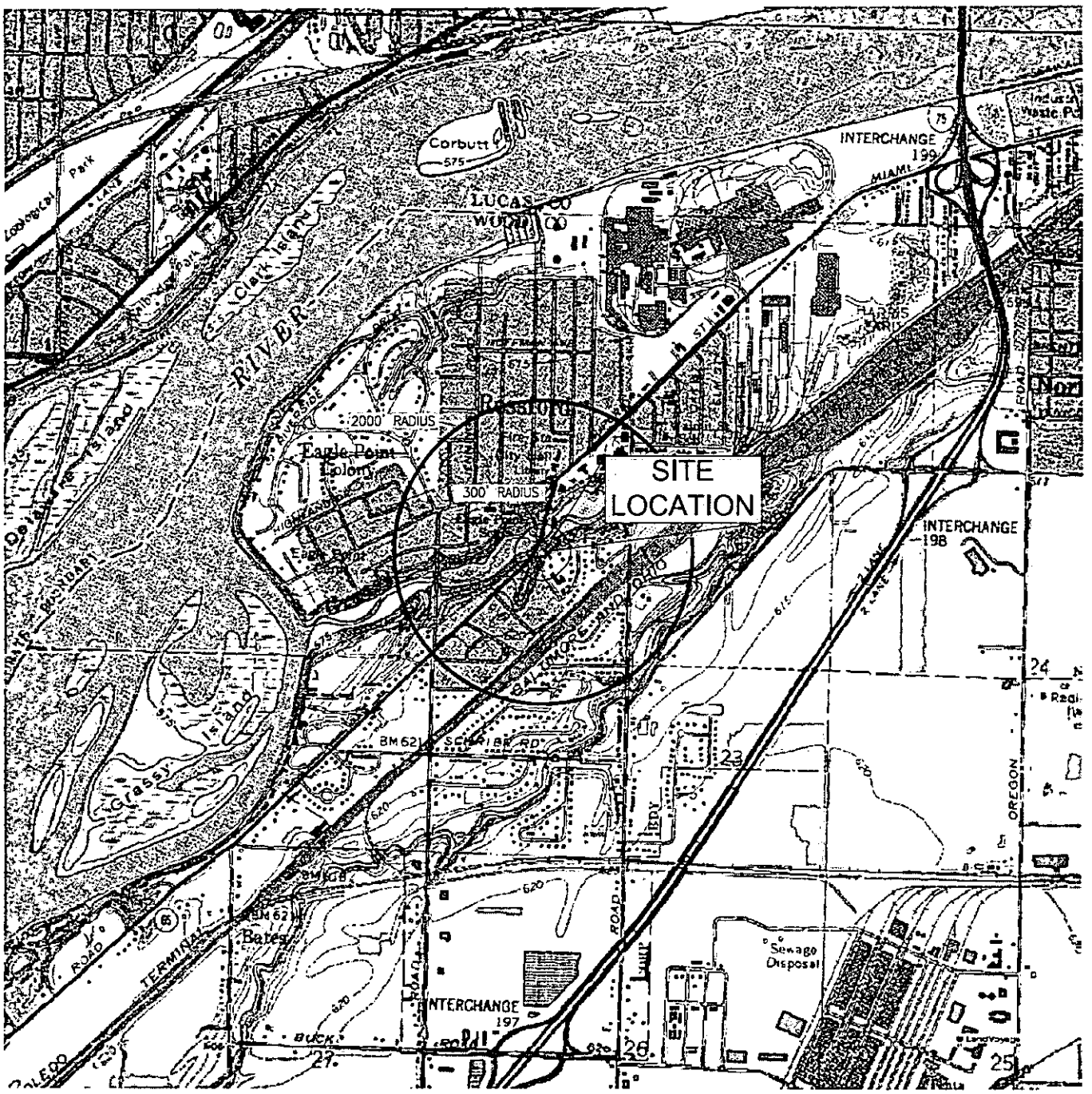
The Free Product Recovery Report Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, and the form is legible and complete.

OWNER / OPERATOR SIGNATURE:

PRINT NAME: **Keith A. Hughes** **DATE:** **6/21/2007**

FORM PREPARED BY:

NAME: Travis Bukach
COMPANY: ATC Associates Inc
ADDRESS: 10200 Brecksville Road
Brecksville, OH 44141
PHONE #: 440-838-7177
EMAIL: Travis.bukach@atcassociates.com



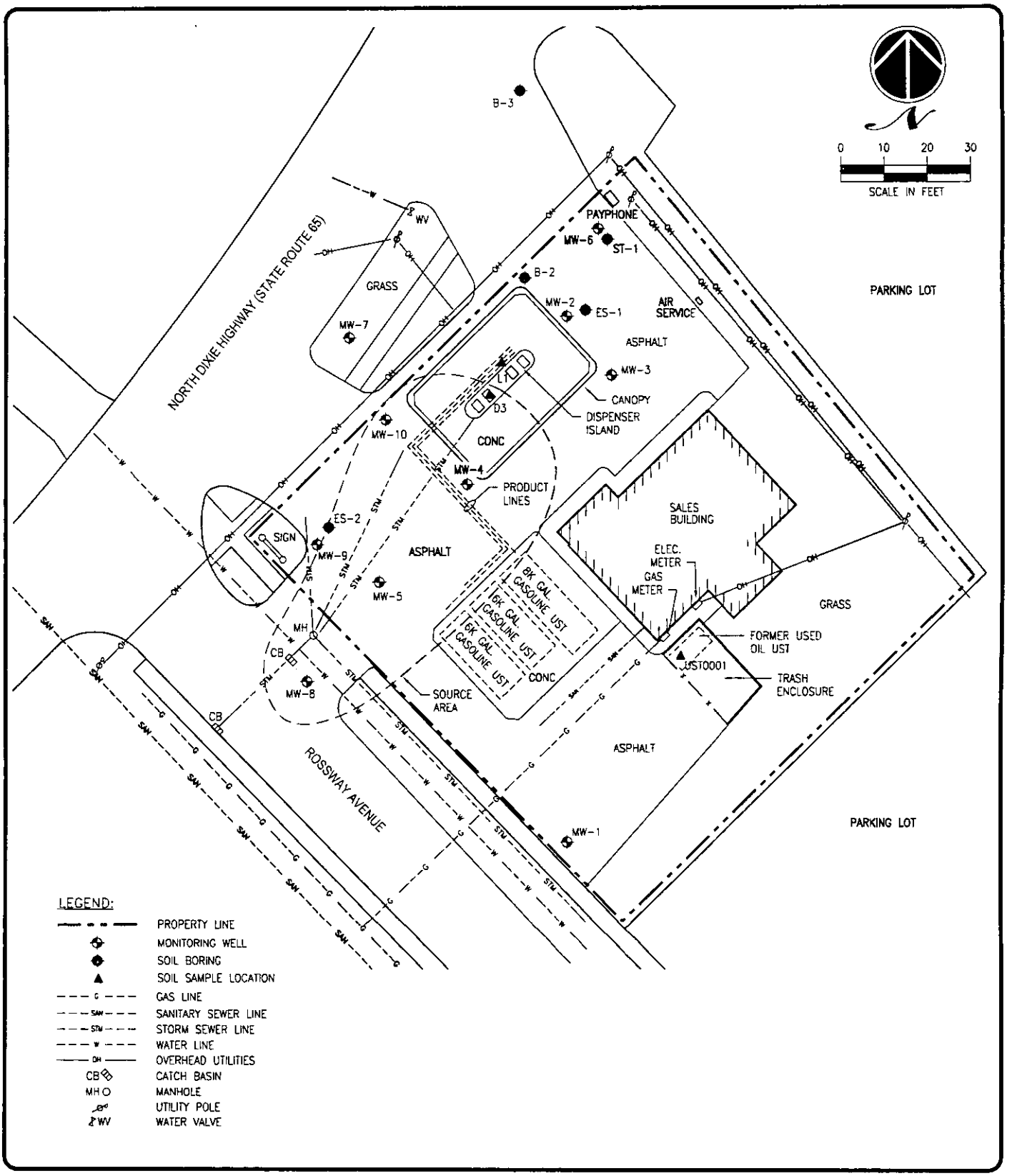
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



..\SSA3642-01.dwg 11/10/06

VATC ASSOCIATES INC.

DATE: 12/7/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: SK	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

TABLE 1
PSH RECOVERY SUMMARY

Speedway SuperAmerica LLC Store #3642
939 Dixie Hwy
Rossford, Ohio

Recovery Point	Date	Liquid Recovery (gallons)	PSH Recovery (gallons)	Comments
MW-4	7-Jun-07	3.0	0.01	*PSH recovery via hand bailing*
	14-Jun-07	2.0	0.00	*PSH recovery via hand bailing*
Cumulative Recovery		5.0	0.01	

PSH Phase Separated Hydrocarbons

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0340	Date	06/07/07

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.8	NA	22.1	3.6	10.8	Purged Dry	10:50	Bleach color and odor
MW-2	2	39.65	23.27	NA	16.38	2.7	8.0	8	11:10	Bleach color and odor
MW-3	2	40.5	23.81	NA	16.69	2.7	8.2	Purged Dry	11:00	Bleach color and odor
MW-4	2	15.7	5.64	5.61	10.06	1.6	4.9	3	No sample	
MW-5	2	31	8.75	NA	22.25	3.6	10.9	10.9	12:10	
MW-6	2	37.6	19	NA	18.6	3.0	9.1	Purged Dry	11:20	Bleach color and odor
MW-7	2	18.7	7.89	NA	10.81	1.8	5.3	Purged Dry	11:30	
MW-8	2	15	11.2	NA	3.8	0.6	1.9	1.9	11:40	
MW-9	2	14.3	6.76	NA	7.54	1.2	3.7	3.7	11:50	
MW-10	2	21.6	10.79	NA	10.81	1.8	5.3	5.3	12:00	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	02/21/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8										
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:10	97.19	73.92	23.27										
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:00	98.44	74.63	23.81										
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-05	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75										
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:20	96.7	77.7	19										
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:50	97.09	90.33	6.76										
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 1.000	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79										
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:40	98.78	87.58	11.2										
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

FREE PRODUCT RECOVERY REPORT FORM

(Due monthly)

OCT. 2007

OWNER/OPERATOR AND FACILITY DATA

FACILITY INFORMATION:

COMPANY: Speedway SuperAmerica Unit #3642
ADDRESS: 939 Dixie Hwy
CITY: Rossford, Ohio
COUNTY: Wood
ZIP CODE: 43460
LAT/LONG: 41° 38' 18"N, 83° 33' 44"W
FACILITY ID #: 87000087

OWNER/OPERATOR INFORMATION:

COMPANY: Speedway SuperAmerica LLC
ADDRESS: PO Box 1500
CITY, STATE: Springfield, Ohio
ZIP CODE: 45501
CONTACT PERSON: Timothy Wilfong
PHONE: 937-863-7862

FREE PRODUCT RECOVERY ACTIVITIES

Details of the free product recovery system: Free product recovery via hand-bailing.

Description of free product recovery system malfunctions: Not Applicable

Description of changes or modifications to the free product recovery system: Not Applicable

FREE PRODUCT RECOVERY INFORMATION	
Type of free product:	Gasoline
Initial date free product discovered:	6/7/2007
Date & method of notification:	6/7/2007 (telephone)
Estimated quantity released:	N/A
Historic location(s) of free product:	MW-4
Current location(s) of free product:	None
Product thickness per location:	See Table 1
Gallons of product recovered current month:	0.0
Gallons of product recovered (to date):	0.01
Gallons of water discharged current month:	0.0
Gallons of water discharged (to date):	0.0
Disposition of recovered water:	55-Gallon Drum

Additional Information:

Are free product recovery activities planned next month, if no, explain? Yes ☐ No ☒
Measurable free product has not been identified for 3 consecutive months so free product monitoring has been terminated.

MISCELLANEOUS DATA

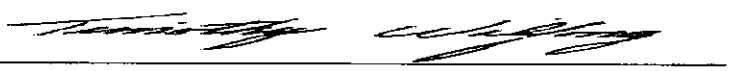
THE FOLLOWING ITEMS MUST BE ATTACHED:

ADDITIONAL INFORMATION WHICH IS REQUIRED BY OAC 1301:7-9-13 OR ADDITIONAL INFORMATION WHICH CLARIFIES THE INVESTIGATION ACTIVITIES SHALL BE SUBMITTED AS APPENDICIES TO THIS REPORT.

TABLES:
TABLE 1 – PSH RECOVERY SUMMARY
TABLE 2 – MONITORING WELL PURGE LOG
TABLE 3 – BTEX/MTBE GROUNDWATER ANALYTICAL RESULTS

FIGURES:
FIGURE 1 – SITE VICINITY MAP
FIGURE 2 - SITE MAP

The Free Product Recovery Report Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, and the form is legible and complete.

OWNER / OPERATOR SIGNATURE: 

PRINT NAME: Timothy Wilfong **DATE:** 10/30/2007

FORM PREPARED BY:

NAME: Kathryn Price
COMPANY: ATC Associates Inc
ADDRESS: 10200 Brecksville Road
Brecksville, OH 44141
PHONE #: 440-838-7177
EMAIL: kathryn.price@atcassociates.com

TABLE 1
PSH RECOVERY SUMMARY

Speedway SuperAmerica LLC Store #3642
939 Dixie Hwy
Rossford, Ohio

Recovery Point	Date	Liquid Recovery (gallons)	PSH Recovery (gallons)	Comments
MW-4	7-Jun-07	3.0	0.01	*PSH recovery via hand bailing*
	14-Jun-07	2.0	0.00	*No PSH Observed*
	27-Jul-07	1.0	0.00	*No PSH Observed*
	14-Aug-07	1.0	0.00	*No PSH Observed*
	2-Oct-07	1.0	0.00	*No PSH Observed*
Cumulative Recovery		8.0	0.01	

PSH Phase Separated Hydrocarbons

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0340	Date	10/02/07

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.02	NA	22.88	3.7	11.2	Purged Dry	7:10	
MW-2	2	39.65	22.75	NA	16.9	2.8	8.3	Purged Dry	7:30	
MW-3	2	40.5	23.35	NA	17.15	2.8	8.4	Purged Dry	7:20	
MW-4	2	15.7	8.13	NA	7.57	1.2	3.7	3.7	8:20	
MW-5	2	31	9.04	NA	21.96	3.6	10.7	10.7	8:15	duplicate
MW-6	2	37.6	18.84	NA	18.76	3.1	9.2	Purged Dry	7:40	
MW-7	2	18.7	8.29	NA	10.41	1.7	5.1	5	7:45	
MW-8	2	15	11.3	NA	3.7	0.6	1.8	1.8	8:10	
MW-9	2	14.3	6.82	NA	7.48	1.2	3.7	3	8:00	
MW-10	2	21.6	11.52	NA	10.08	1.6	4.9	4	7:50	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	02/21/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								TRIP BLANK	06/07/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								TRIP BLANK	10/02/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 1
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								MW-01	06/07/2007	12:30	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

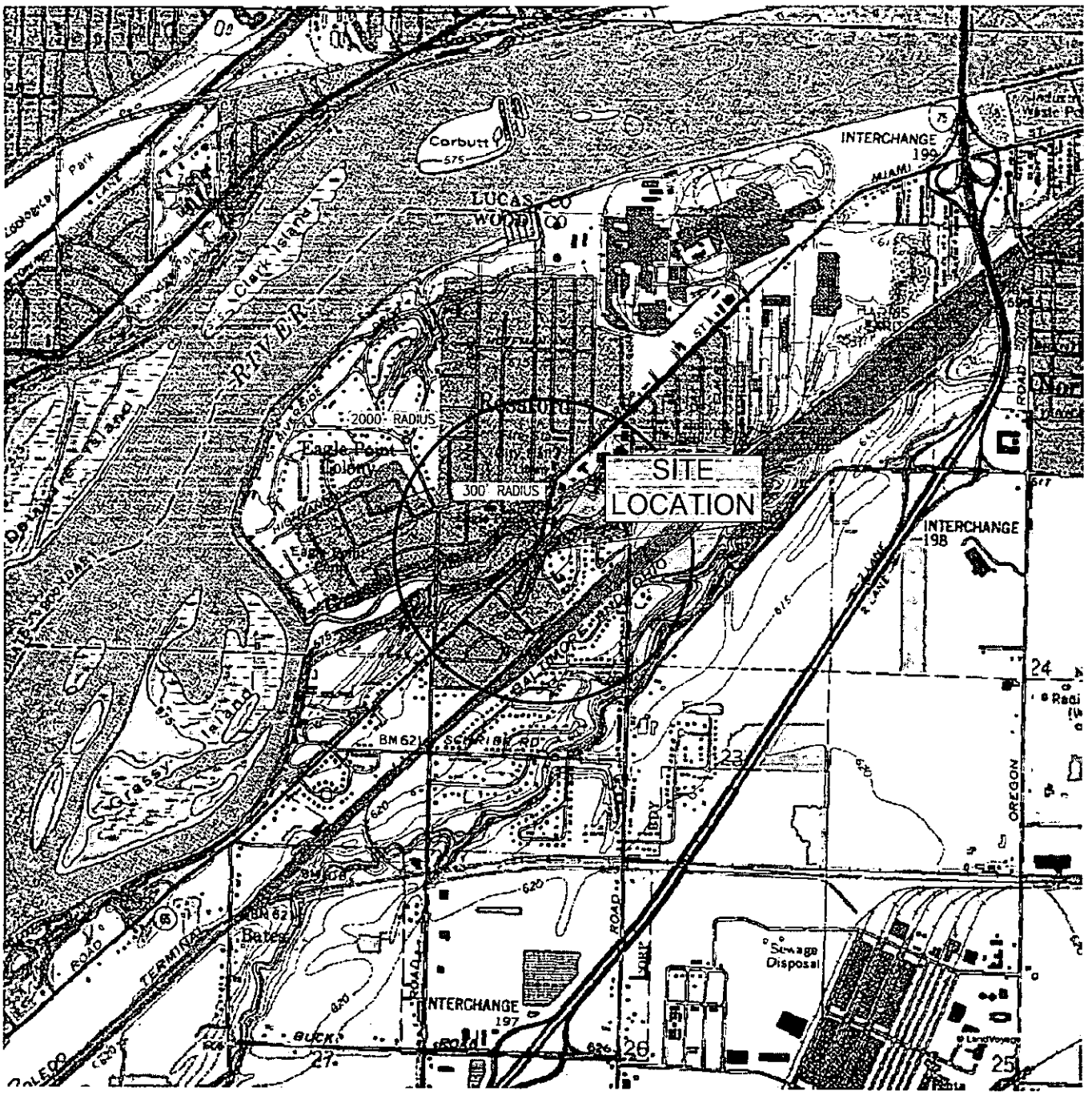
Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-02	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								MW-03	06/07/2007	12:40	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 50.000	1900.000	9200.000	**1900.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.0**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.0**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75			MW-05	06/07/2007	12:10	< 2.000	< 5.000	< 5.000	< 5.000	**1060.000**
	10/02/2007	08:15	97.91	88.87	9.04			MW-05	10/02/2007	08:15	< 25.000	< 25.000	< 25.000	< 75.000	**1400.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 1.000	< 1.000	< 1.000	< 3.000	< 5.0
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 1.000	< 1.000	< 1.000	< 3.000	< 1.0
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 1.000	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 5.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 10.000	31.000	< 30.000	**77.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 1.000	< 1.000	< 1.000	< 3.000	< 5
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 1.000	< 1.000	< 1.000	< 3.000	1.700
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000



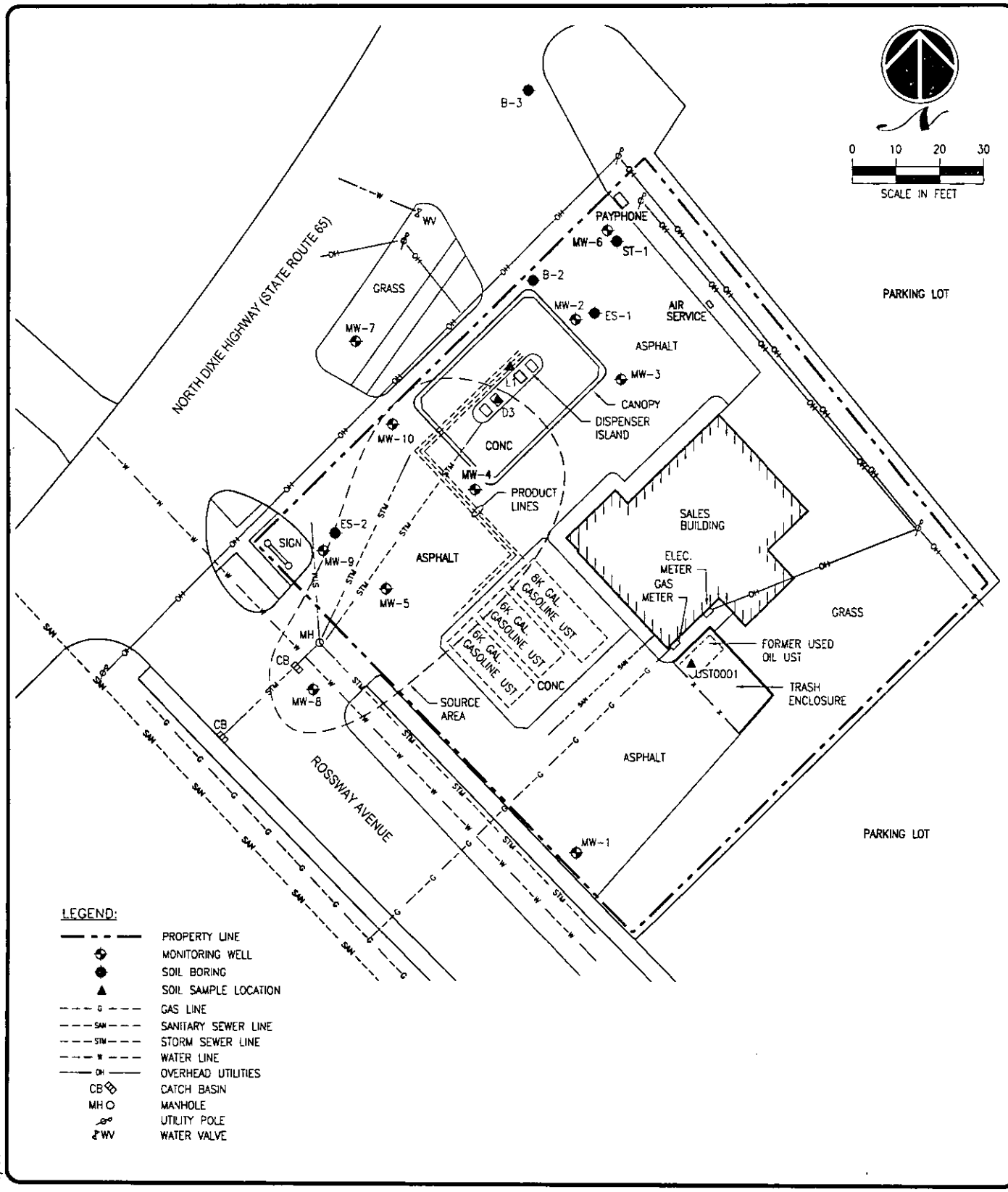
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



..SSA3642-01.dwg 11/10/06

ATC ASSOCIATES INC.

DATE: 12/7/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: SK	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

RECEIVED
2004 SEP -8 PM 12:50
STATE FIRE MARSHAL

CERTIFIED MAIL

30 August 2004

Mr. Rick Krueger
Bureau of Underground Storage Tank Regulations
BUSTR
WOOD COUNTY CORRECTIVE ACTIONS
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

This letter provides a summary of groundwater sampling activities conducted at the above referenced site on 16 June 2004. The groundwater monitoring and sampling activities were conducted after submittal of the *Tier 2 Evaluation Report* (June 2003) for the purposes of updating site conditions in accordance with the site specific groundwater monitoring plan (dated 18 September 2003).

On 16 June 2004, depth to fluid measurements (Table 1) were collected from monitoring wells MW-1 through MW-8. Groundwater samples were collected and submitted to SPL Laboratories in Grand Rapids, Michigan and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The groundwater sampling methodologies will be detailed in the final groundwater sampling report.

Laboratory analytical results from the groundwater samples are summarized in Table 2. The laboratory report has been included in Attachment A. Historical laboratory results of soil samples collected at the site are presented in Table 3.

As a conservative measure, additional groundwater sampling will be conducted due to increasing benzene levels at well MW-4. SSA will continue to update your office on site conditions. If you have any questions or concerns, please contact me at (937) 863-6514.
Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Advanced Environmental Representative

Enclosure – *Groundwater Sampling Report,* dated August 2004
cc: Adam Tucker (Parsons) – w/ encl.
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation [1] (feet)	Relative Groundwater Elevation [2] (feet)
MW-1 [3]	19-Feb-03	2	35.25	--	--	--	100.88	--
	18-Jun-03	2	35.25	12.22	12.22	0.00	100.88	88.66
	24-Sep-03	2	35.25	11.41	11.41	0.00	100.88	89.47
	21-Nov-03	2	35.25	11.52	11.52	0.00	100.88	89.36
	24-Mar-04	2	35.25	12.24	12.24	0.00	100.88	88.64
	16-Jun-04	2	35.25	11.72	11.72	0.00	100.88	89.16
MW-2	19-Feb-03	2	39.95	22.42	22.42	0.00	97.19	74.77
	18-Jun-03	2	39.95	22.42	22.42	0.00	97.19	74.77
	24-Sep-03	2	39.95	22.56	22.56	0.00	97.19	74.63
	21-Nov-03	2	39.95	24.02	24.02	0.00	97.19	73.17
	24-Mar-04	2	39.95	23.38	23.38	0.00	97.19	73.81
	16-Jun-04	2	39.95	25.25	25.25	0.00	97.19	71.94
MW-3	19-Feb-03	2	41.40	29.65	29.65	0.00	98.44	68.79
	18-Jun-03	2	41.40	18.97	18.97	0.00	98.44	79.47
	24-Sep-03	2	41.40	25.26	25.26	0.00	98.44	73.18
	21-Nov-03	2	41.40	26.03	26.03	0.00	98.44	72.41
	24-Mar-04	2	41.40	23.47	23.47	0.00	98.44	74.97
	16-Jun-04	2	41.40	25.19	25.19	0.00	98.44	73.25
MW-4	19-Feb-03	2	16.02	8.06	8.06	0.00	97.98	89.92
	18-Jun-03	2	16.02	5.50	5.50	0.00	97.98	92.48
	24-Sep-03	2	16.02	5.82	5.82	0.00	97.98	92.16
	21-Nov-03	2	16.02	8.15	8.15	0.00	97.98	89.83
	24-Mar-04	2	16.02	7.72	7.72	0.00	97.98	90.26
	16-Jun-04	2	16.02	6.45	6.45	0.00	97.98	91.53
MW-5	19-Feb-03	2	32.35	10.67	10.67	0.00	97.91	87.24
	18-Jun-03	2	32.35	9.34	9.34	0.00	97.91	88.57
	24-Sep-03	2	32.35	9.18	9.18	0.00	97.91	88.73
	21-Nov-03	2	32.35	9.91	9.91	0.00	97.91	88.00
	24-Mar-04	2	32.35	10.82	10.82	0.00	97.91	87.09
	16-Jun-04	2	32.35	9.51	9.51	0.00	97.91	88.40
MW-6	19-Feb-03	2	38.55	19.98	19.98	0.00	96.70	76.72
	18-Jun-03	2	38.55	19.43	19.43	0.00	96.70	77.27
	24-Sep-03	2	38.55	22.18	22.18	0.00	96.70	74.52
	21-Nov-03	2	38.55	24.93	24.93	0.00	96.70	71.77
	24-Mar-04	2	38.55	19.86	19.86	0.00	96.70	76.84
	16-Jun-04	2	38.55	19.91	19.91	0.00	96.70	76.79

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation [1] (feet)	Relative Groundwater Elevation [2] (feet)
MW-7	19-Feb-03	2	19.26	9.82	9.82	0.00	95.70	85.88
	18-Jun-03	2	19.26	8.19	8.19	0.00	95.70	87.51
	24-Sep-03	2	19.26	8.50	8.50	0.00	95.70	87.20
	21-Nov-03	2	19.26	8.63	8.63	0.00	95.70	87.07
	24-Mar-04	2	19.26	8.34	8.34	0.00	95.70	87.36
	16-Jun-04	2	19.26	7.98	7.98	0.00	95.70	87.72
MW-8	19-Feb-03	2	19.05	13.05	13.05	0.00	97.78	84.73
	18-Jun-03	2	19.05	11.43	11.43	0.00	97.78	86.35
	24-Sep-03	2	19.05	12.42	12.42	0.00	97.78	85.36
	21-Nov-03	2	19.05	12.16	12.16	0.00	97.78	85.62
	24-Mar-04	2	19.05	11.54	11.54	0.00	97.78	86.24
	16-Jun-04	2	19.05	11.10	11.10	0.00	97.78	86.68

PSH Phase Separated Hydrocarbons

(1) North side of manhole cover (surface grade) relative to the site benchmark, assigned an arbitrary value of 100.00 feet. As of April 2002, the site benchmark is the top bolt of the fire hydrant located at the western corner of the site near the Speedway sign.

(2) When PSH is present, groundwater elevations are corrected by first multiplying PSH thickness by the specific gravity of hydrocarbons (assumed to be 0.76), then subtracting the calculated PSH thickness from the depth to water measurement.

(3) Well under snow pile.

TABLE 2

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Tier 1 Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-1	15-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---
	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MW-2	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MW-3	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MW-4	11-Apr-02	**3.10**	0.069	**2.10**	9.630	**2.60**
	20-Dec-02	**0.120**	0.027	0.083	0.420	**0.110**
	19-Feb-03	**3.60**	0.060	**2.30**	9.27	**1.60**
	18-Jun-03	**2.60**	0.056	**1.80**	7.87	**0.850**
Duplicate	18-Jun-03	**2.60**	0.059	**1.80**	7.87	**0.550**
	24-Sep-03	**3.20**	0.079	**3.00**	**11.27**	**3.50**
Duplicate	24-Sep-03	**3.20**	0.086	**3.00**	**12.27**	**3.50**
	21-Nov-03	**3.90**	0.084	**2.80**	**12.25**	**2.30**
Duplicate	21-Nov-03	**3.50**	0.059	**2.60**	**12.20**	**2.20**
	24-Mar-04	**3.00**	0.078	**2.20**	9.30	**2.00**
Duplicate	24-Mar-04	**4.50**	0.220	**2.60**	**11.26**	**3.10**
	16-Jun-04	**5.30**	< 0.100	**3.60**	**15.00**	**3.00**

TABLE 2

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Tier 1 Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-5	11-Apr-02	0.0018	< 0.001	0.0012	< 0.0047	**0.270**
	20-Dec-02	0.0048	< 0.001	0.003	< 0.015	**0.500**
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.630**
	18-Jun-03	0.0015	< 0.001	0.0014	< 0.0076	**0.910**
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.690**
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.920**
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	**0.990**
	16-Jun-04	< 0.010	< 0.010	< 0.010	< 0.010	**1.200**
MW-6	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MW-7	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	0.0011	< 0.0056	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
MW-8	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	0.013
	19-Feb-02	< 0.001	< 0.001	< 0.001	< 0.003	0.012
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	0.015
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	0.0087
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	0.0085
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	0.0079
	16-Jun-04	< 0.005	< 0.005	< 0.005	< 0.005	0.0066

MTBE	Methyl-Tertiary-Butyl-Ether
ppm	parts per million
Bold	Value exceeds Action Levels
(1)	Samples analyzed by EPA Method 602, 8021 or 8260B.

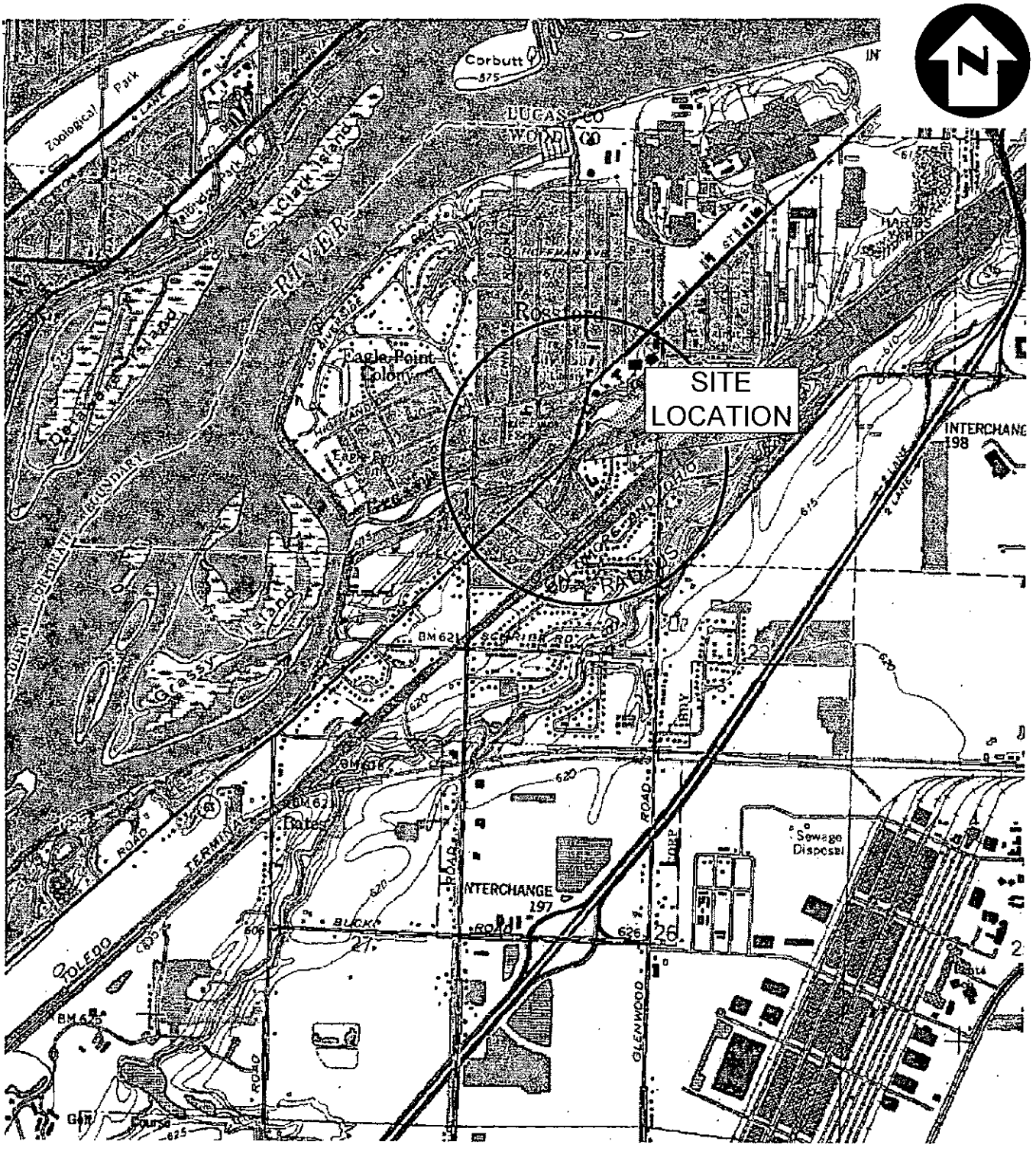
TABLE 3

RESULTS OF LABORATORY ANALYSIS - SOIL

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Interval (feet)	Sample Date	Volatile Organic Compounds (VOCs) [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPH-GRO *(Method 8015)* (ppm)
Action Levels (silty/clayey sand soil):			**0.240**	**112**	**131**	**1,500**	**0.890**	**NA**
Closure Assessment and Site Assessment - July 1997								
L-1	4'	09-Jul-97	**1.7**	19.0	11.0	76.0	---	1,000
D-3	2'	09-Jul-97	0.150	2.3	3.1	26.0	---	380
B-1/MW-1	26-28'	09-Jul-97	0.009	< 0.002	< 0.002	< 0.004	---	< 5.0
B-2	10-12'	10-Jul-97	< 0.002	< 0.002	< 0.002	0.014	---	< 5.0
	16-18'	10-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
B-3	38-40'	10-Jul-97	0.012	0.010	< 0.002	< 0.004	---	< 5.0
UST001 (Used Oil UST)	6'	15-Jul-97	< 0.005	< 0.005	< 0.005	< 0.010	---	< 10.0
Site Assessment - March 1998								
ES-1	9-11'	11-Mar-98	0.004	< 0.002	< 0.002	< 0.004	---	< 5.0
	43-45'	12-Mar-98	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
ES-2	7-9'	12-Mar-98	< 0.125	0.940	1.5	12.0	---	260
Tier 1 Evaluation - March 2002								
MW-2	9-11'	06-Mar-02	< 0.050	0.100	0.400	5.660	< 0.050	---
	33-35'	06-Mar-02	0.013	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-3	9-11'	07-Mar-02	0.018	0.011	0.013	0.088	< 0.010	---
	33-35'	07-Mar-02	0.055	0.035	0.016	0.076	< 0.010	---
MW-4	7-9'	07-Mar-02	**0.400**	0.017	0.140	0.142	0.350	---
	9-11'	07-Mar-02	**0.360**	0.021	0.059	0.137	0.210	---
MW-5	5-7'	07-Mar-02	0.180	0.028	0.064	0.301	0.065	---
	7-9'	07-Mar-02	**0.400**	4.600	8.300	68.0	0.200	---
	9-11'	07-Mar-02	**1.300**	7.500	11.000	84.0	< 0.050	---
	13-15'	07-Mar-02	**1.000**	1.000	2.000	18.7	0.460	---
	29-31'	08-Mar-02	0.050	0.034	0.013	0.078	< 0.010	---
MW-6	1-3'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	5-7'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	17-19'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	29-31'	11-Mar-02	0.019	0.019	0.010	0.062	< 0.010	---
Additional Assessment - December 2002								
MW-7	7-9'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-8	3-5,	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---

MTBE	Methyl-tertiary-butyl-ether
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
ppm	parts per million
Bold	indicates value above Tier 1 Action Levels
(1)	Samples analyzed by EPA Method 8020 or 8260, with the exception of sample UST001 which was analyzed for VOAs by EPA Method 8240 and TPH by EPA Method 418.1.
---	Not analyzed for indicated parameter.



2000 1000 0 2000

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

441032.01000
\\CLEFS01\PROJECTS\SSA...41032SLM.DWG 6/11/04

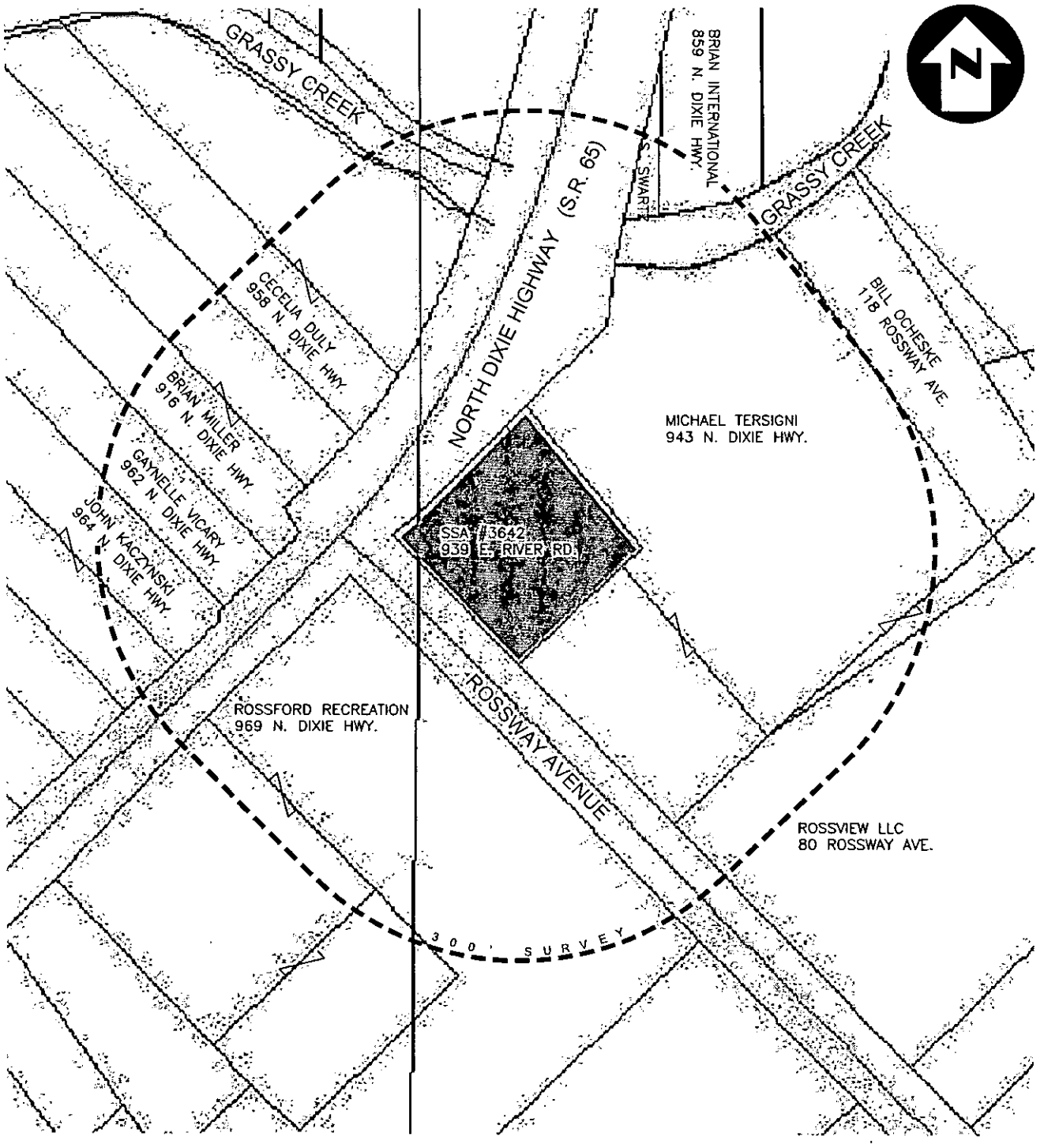
SPEEDWAY SUPERAMERICA LLC

FIGURE 1

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SITE LOCATION MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005



150 75 0 150

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

SPEEDWAY SUPERAMERICA LLC

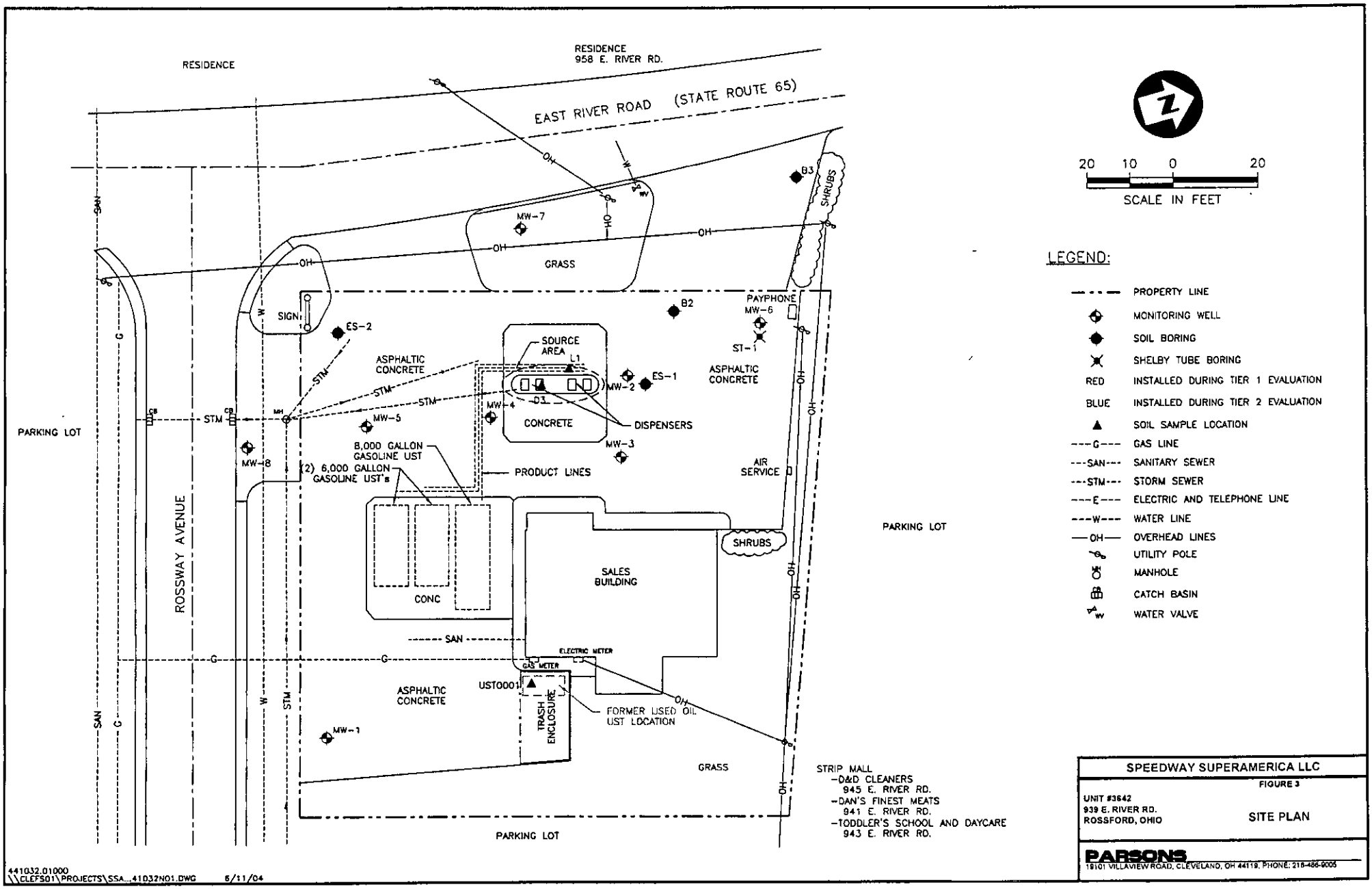
FIGURE 2

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SURROUNDING PROPERTIES MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

441032.01000
\\CLEFS01\P:\SSA...41032SPM.DWG 6/11/04



441032.01000
\\CLEFS01\PROJECTS\SSA...41032N01.DWG 6/11/04

SPEEDWAY SUPERAMERICA LLC

FIGURE 3

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SITE PLAN

PARSONS
18101 VILLAVIEW ROAD, CLEVELAND, OH 44119. PHONE: 216-486-9005

ATTACHMENT A
LABORATORY REPORTS

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

LABORATORY REPORT

SPL WORKORDER NUMBER(s): ***04-06-404***

Prepared for: ***SPEEDWAY SUPERAMERICA LLC.***

Sampled By: PARSONS, INC.

Site: 939 E RIVER, ROSSFORD, OH

Project: 3642 SPEEDWAY STATION

Approved by:

S L Grenda

S. L. Grenda, Laboratory Manager

Date: JUN 25 2004

Gary R. Byar, Project Manager GB

This report consists of 20 *pages*
The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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(231) 947-5777

Summary Report 06-24-2004

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 E RIVER, ROSSFORD, OH
Project No.: AFE#10585
Project: 3642 SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0406404-01 WATER	Duplicate-1 06/16/2004 05:25:00	5200 100 ug/L	ND 100 ug/L	3500 100 ug/L	15000 100 ug/L								3000 300 ug/L
0406404-02 WATER	EQUIPMENT BLANK 06/16/2004 05:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-03 WATER	MW-1 06/16/2004 05:02:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-04 WATER	MW-2 06/16/2004 05:11:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-05 WATER	MW-3 06/16/2004 05:06:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-06 WATER	MW-4 06/16/2004 05:24:00	5300 100 ug/L	ND 100 ug/L	3600 100 ug/L	15000 100 ug/L								3000 300 ug/L
0406404-07 WATER	MW-5 06/16/2004 05:21:00	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L								1200 30 ug/L
0406404-08 WATER	MW-6 06/16/2004 05:09:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-09 WATER	MW-7 06/16/2004 05:15:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0406404-10 WATER	MW-8 06/16/2004 05:18:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								6.6 5 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

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Summary Report 06-24-2004

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 E RIVER, ROSSFORD, OH
Project No.: AFE#10585
Project: 3642 SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0406404-11 WATER	TRIP BLANK 05/19/2004 00:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

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Certificate of Analysis No. M1-0406404-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: Duplicate-1

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:25:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	3000	300 P	ug/L
BENZENE	5200	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	3500	100 P	ug/L
TOTAL XYLENE	15000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	105
4-Bromofluorobenzene	112

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: EQUIPMENT BLANK

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:00:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	106

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0406404-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-1

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:02:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	105

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-2

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:11:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	104

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-05

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-3

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:06:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-06

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-4

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:24:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	3000	300 P	ug/L
BENZENE	5300	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	3600	100 P	ug/L
TOTAL XYLENE	15000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	105
4-Bromofluorobenzene	112

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-07

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-5

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:21:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1200	30 P	ug/L
BENZENE	ND	10 P	ug/L
TOLUENE	ND	10 P	ug/L
ETHYLBENZENE	ND	10 P	ug/L
TOTAL XYLENE	ND	10 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-08

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-6

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:09:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	105

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0406404-09

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-7

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:15:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0406404-10

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: MW-8

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 06/16/2004 05:18:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	6.6	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	103

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0406404-11

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Dr.
Enon, OH 45323
ATTN: Brian Epperson

P.O.# 00001302
DATE: 06/24/2004

PROJECT: 3642 SPEEDWAY STATION
SITE: 939 E RIVER, ROSSFORD, OH
SAMPLED BY: PARSONS, INC.
SAMPLE ID: TRIP BLANK

PROJECT NO: AFE#10585
MATRIX: WATER
DATE SAMPLED: 05/19/2004 00:00:00
DATE RECEIVED: 06/17/2004

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	104

Method 8021B ***
Analyzed by: SJ
Date: 06/23/2004

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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TRAVERSE CITY, MICHIGAN 49686
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QUALITY CONTROL DOCUMENTATION

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
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Surrogate Recovery Report
BTEX Analysis - 4-Bromofluorobenzene (BFB)
1,4-Difluorobenzene (DFB)

SPL ID	CLIENT ID	MATRIX	AMOUNT INJECTED	AMOUNT RECOVERED	% REC.	CONTROL LIMITS
0406404-01A	Duplicate-1	Water	30 ug/L	31.5 ug/L	105	33-165 DFB
0406404-01A	Duplicate-1	Water	30 ug/L	33.6 ug/L	112	35-162 BFB
0406404-02A	EQUIPMENT BLANK	Water	30 ug/L	30 ug/L	100	33-165 DFB
0406404-02A	EQUIPMENT BLANK	Water	30 ug/L	31.8 ug/L	106	35-162 BFB
0406404-03A	MW-1	Water	30 ug/L	29.7 ug/L	99	33-165 DFB
0406404-03A	MW-1	Water	30 ug/L	31.5 ug/L	105	35-162 BFB
0406404-04A	MW-2	Water	30 ug/L	29.7 ug/L	99	33-165 DFB
0406404-04A	MW-2	Water	30 ug/L	31.2 ug/L	104	35-162 BFB
0406404-05A	MW-3	Water	30 ug/L	30 ug/L	100	33-165 DFB
0406404-05A	MW-3	Water	30 ug/L	30.6 ug/L	102	35-162 BFB
0406404-06A	MW-4	Water	30 ug/L	31.5 ug/L	105	33-165 DFB
0406404-06A	MW-4	Water	30 ug/L	33.6 ug/L	112	35-162 BFB
0406404-07A	MW-5	Water	30 ug/L	30 ug/L	100	33-165 DFB
0406404-07A	MW-5	Water	30 ug/L	30.6 ug/L	102	35-162 BFB
0406404-08A	MW-6	Water	30 ug/L	29.7 ug/L	99	33-165 DFB
0406404-08A	MW-6	Water	30 ug/L	31.5 ug/L	105	35-162 BFB
0406404-09A	MW-7	Water	30 ug/L	30 ug/L	100	33-165 DFB
0406404-09A	MW-7	Water	30 ug/L	30.6 ug/L	102	35-162 BFB
0406404-10A	MW-8	Water	30 ug/L	30 ug/L	100	33-165 DFB
0406404-10A	MW-8	Water	30 ug/L	30.9 ug/L	103	35-162 BFB
0406404-11A	TRIP BLANK	Water	30 ug/L	29.7 ug/L	99	33-165 DFB
0406404-11A	TRIP BLANK	Water	30 ug/L	31.2 ug/L	104	35-162 BFB

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Water
Units: ug/L

Batch Id: 4444040622040300

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	93	93.0	71 - 129
Benzene	ND	100	110	110	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	98	98.0	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	22	110	22	110	0	55	19 - 189
BENZENE	ND	20	26	130	26	130	0	26	56 - 160
TOLUENE	ND	20	22	110	22	110	0	26	58 - 154
ETHYLBENZENE	ND	20	20	100	19	95.0	5.13	27	47 - 162
O XYLENE	ND	20	21	105	20	100	4.88	30	38 - 177
M & P XYLENE	ND	20	20	100	19	95.0	5.13	27	30 - 188

Analyst: SJ
Sequence Date: 06/22/04
SPL ID of sample spiked: 0406426-02A
Sample File ID: 4F22016.TX0
Method Blank File ID:
Blank Spike File ID: 4F22030.TX0
Matrix Spike File ID: 4F22027.TX0
Matrix Spike Duplicate File ID: 4F22028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: Laboratory historical
(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0406426-02A 0406404-01A 0406404-02A 0406404-03A
0406404-04A 0406404-05A 0406404-06A 0406404-08A
0406404-09A 0406404-10A 0406404-11A 0406416-01A
0406416-03A 0406416-04A 0406416-05A 0406416-06A
0406426-15A 0406426-16A 0406426-17A

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Water
Units: ug/L

Batch Id: 4444040623040200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	88	88.0	71 - 129
Benzene	ND	100	110	110	81 - 123
Toluene	ND	100	99	99.0	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	98	98.0	74 - 130
M & P Xylene	ND	100	97	97.0	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	22	110	22	110	0	55	19 - 189
BENZENE	ND	20	28	140	27	135	3.64	26	56 - 160
TOLUENE	ND	20	25	125	25	125	0	26	58 - 154
ETHYLBENZENE	ND	20	26	130	25	125	3.92	27	47 - 162
O XYLENE	ND	20	26	130	25	125	3.92	30	38 - 177
M & P XYLENE	ND	20	25	125	24	120	4.08	27	30 - 188

Analyst: SJ
Sequence Date: 06/23/04
SPL ID of sample spiked: 0406404-08A
Sample File ID: 4F22043.TX0
Method Blank File ID:
Blank Spike File ID: 4F23004.TX0
Matrix Spike File ID: 4F23005.TX0
Matrix Spike Duplicate File ID: 4F23006.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: Laboratory historical
(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0406409-05A 0406416-02A 0406421-23A 0406421-28A
0406424-10A 0406424-15A 0406426-14A 0406424-18A
0406402-01A 0406423-01A 0406423-02A 0406437-01A
0406437-02A 0406437-06A 0406404-07A 0406409-01A
0406409-02A

0406404

441032 01000

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00001302

Speedway SuperAmerica Project Information

SSA STORE #:	0003642		
ADDRESS:	939 E River Rd		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Brian K. Epperson		
PHONE #:	937-863-6514	FAX #:	(937)863-6078
AFE #:	10585	WORK ORDER #:	4214537
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

TURN AROUND TIME
STANDARD

LAB:	SPL Michigan		
CONSULTANT:	PARSONS ENGINEERING SCI INC		
PROJECT MGR:	Adam C. Tucker		
ADDRESS:	19101 Villaview Road Cleveland, Ohio 44119		
PHONE #:	216-486-9005	FAX #:	216-486-6119
SAMPLER:	Cheryl Huey		
SHIPPED VIA:	FedExp		
TRACKING #:	7906 7139 8839		

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
Duplicate-1	06/16/2004 05:25am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
EQUIPMENT BLANK	06/16/2004 05:00am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-1	06/16/2004 05:02am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-2	06/16/2004 05:11am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-3	06/16/2004 05:06am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-4	06/16/2004 05:24am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-5	06/16/2004 05:21am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-6	06/16/2004 05:09am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-7	06/16/2004 05:15am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-8	06/16/2004 05:18am	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: [signature]	Date 6/16/04	Time 13:05	Received by: Sample sealed in fridge
Relinquished by: Sample Sealed in Fridge	Date 6-16-04	Time ~~14:25~~ 1345 5m	Received by laboratory: Sue Mach
Special Reporting Requirements: *None*			Lab Notes:

Date 6/16/04	Time 13:05
Date 6-16-04	Time ~~14:25~~ 1345 5m
Temp 3.1°	

Rel. by: Sue Mach 6-16-04 1415

Rec by: Fed Ex 6-16-04 1415

Amy E Byrn 6-17-04 1000

0406404

441032 01000

Page 2 of 2

TURN AROUND TIME
STANDARD

Chain-of-Custody-Record

Speedway SuperAmerica Project Information

SSA STORE #:	0003642		
ADDRESS:	939 E River Rd		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Brian K. Epperson		
PHONE #:	937-863-6514	FAX #:	(937)863-6078
AFE #:	10585	WORK ORDER #:	4214537
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

COC ID # 00001302

LAB:	SPL Michigan		
CONSULTANT:	PARSONS ENGINEERING SCI INC		
PROJECT MGR:	Adam C. Tucker		
ADDRESS:	19101 Villaview Road Cleveland, Ohio 44119		
PHONE #:	216-486-9005	FAX #:	216-486-6119
SAMPLER:	Cheryl Huey		
SHIPPED VIA:	FedExp		
TRACKING #:	7906 7139 8839		

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	05/19/2004 12:00am	W	1	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Cheryl Huey	Date 6/16/04	Time 13:05	Received by: Sample sealed in fridge	Date 6/16/04	Time 13:05
Relinquished by: Sample Sealed in fridge	Date 6-16-04	Time 1325	Received by laboratory: Sue Marlow	Date 6-16-04	Time 1325
Special Reporting Requirements: *None*			Lab Notes:	Temp	3.1°

Rel by: Sue Marlow 6-16-04 1415 Rec. by: Fed Ex 6-16-04 1415

Amy E Bar 6-17-04 1000

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

RECEIVED
2004 JUN 16 PM 2:52
STATE FIRE MARSHAL

CERTIFIED MAIL

16 June 2004

Mr. Rick Krueger
Bureau of Underground Storage Tank Regulations
BUSTR
WOOD COUNTY CORRECTIVE ACTIONS
8895 East Main Street, P.O. Box 687
Reynoldsburg, Ohio 43068-9009

RE: Speedway SuperAmerica #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00001 (2)
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

This letter provides a summary of groundwater sampling activities conducted at the above referenced site (Figures 1 through 3) on 24 September 2003, 21 November 2003, and 24 March 2004. The groundwater monitoring and sampling activities were conducted after submittal of the *Tier 2 Evaluation Report* (June 2003) for the purposes of updating site conditions in accordance with the site specific groundwater monitoring plan (dated 18 September 2003).

On 24 September 2003, 21 November 2003, and 24 March 2004, depth to fluid measurements (Table 1) were collected from monitoring wells MW-1 through MW-8. A potentiometric surface map has been generated from the 24 March 2004 data (Figure 4). Groundwater samples were collected and submitted to BioChem Laboratories in Grand Rapids, Michigan and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B. The groundwater sampling methodologies will be detailed in the final groundwater sampling report.

Laboratory analytical results from the groundwater samples are summarized in Table 2 and Figure 5. A copy of the laboratory reports are included in Attachment A. Historical laboratory results of soil samples collected at the site are presented in Tables 3 illustrated on Figure 6.

One additional quarterly groundwater sampling events, to be conducted in accordance with the Groundwater Monitoring Plan, is scheduled for June 2004. The final groundwater sampling report will discuss in detail the results of the Groundwater Monitoring Plan, and the BIOSCREEN predictions of the Tier 2 Evaluation will be re-evaluated using the updated groundwater data.

If you have any questions or concerns, please contact me at (937) 863-6514.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Brian Epperson
Advanced Environmental Representative

Enclosure – *Groundwater Sampling Report,* dated June 2004
cc: Adam Tucker (Parsons) – w/ encl.
Reimbursement File #3642 – w/encl.
Remediation File #3642 – w/encl.

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation [1] (feet)	Relative Groundwater Elevation [2] (feet)
MW-1 [3]	19-Feb-03	2	35.25	--	--	--	100.88	--
	18-Jun-03	2	35.25	12.22	12.22	0.00	100.88	88.66
	24-Sep-03	2	35.25	11.41	11.41	0.00	100.88	89.47
	21-Nov-03	2	35.25	11.52	11.52	0.00	100.88	89.36
	24-Mar-04	2	35.25	12.24	12.24	0.00	100.88	88.64
MW-2	19-Feb-03	2	39.95	22.42	22.42	0.00	97.19	74.77
	18-Jun-03	2	39.95	22.42	22.42	0.00	97.19	74.77
	24-Sep-03	2	39.95	22.56	22.56	0.00	97.19	74.63
	21-Nov-03	2	39.95	24.02	24.02	0.00	97.19	73.17
	24-Mar-04	2	39.95	23.38	23.38	0.00	97.19	73.81
MW-3	19-Feb-03	2	41.40	29.65	29.65	0.00	98.44	68.79
	18-Jun-03	2	41.40	18.97	18.97	0.00	98.44	79.47
	24-Sep-03	2	41.40	25.26	25.26	0.00	98.44	73.18
	21-Nov-03	2	41.40	26.03	26.03	0.00	98.44	72.41
	24-Mar-04	2	41.40	23.47	23.47	0.00	98.44	74.97
MW-4	19-Feb-03	2	16.02	8.06	8.06	0.00	97.98	89.92
	18-Jun-03	2	16.02	5.50	5.50	0.00	97.98	92.48
	24-Sep-03	2	16.02	5.82	5.82	0.00	97.98	92.16
	21-Nov-03	2	16.02	8.15	8.15	0.00	97.98	89.83
	24-Mar-04	2	16.02	7.72	7.72	0.00	97.98	90.26
MW-5	19-Feb-03	2	32.35	10.67	10.67	0.00	97.91	87.24
	18-Jun-03	2	32.35	9.34	9.34	0.00	97.91	88.57
	24-Sep-03	2	32.35	9.18	9.18	0.00	97.91	88.73
	21-Nov-03	2	32.35	9.91	9.91	0.00	97.91	88.00
	24-Mar-04	2	32.35	10.82	10.82	0.00	97.91	87.09
MW-6	19-Feb-03	2	38.55	19.98	19.98	0.00	96.70	76.72
	18-Jun-03	2	38.55	19.43	19.43	0.00	96.70	77.27
	24-Sep-03	2	38.55	22.18	22.18	0.00	96.70	74.52
	21-Nov-03	2	38.55	24.93	24.93	0.00	96.70	71.77
	24-Mar-04	2	38.55	19.86	19.86	0.00	96.70	76.84
MW-7	19-Feb-03	2	19.26	9.82	9.82	0.00	95.70	85.88
	18-Jun-03	2	19.26	8.19	8.19	0.00	95.70	87.51
	24-Sep-03	2	19.26	8.50	8.50	0.00	95.70	87.20
	21-Nov-03	2	19.26	8.63	8.63	0.00	95.70	87.07
	24-Mar-04	2	19.26	8.34	8.34	0.00	95.70	87.36

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation [1] (feet)	Relative Groundwater Elevation [2] (feet)
MW-8	19-Feb-03	2	19.05	13.05	13.05	0.00	97.78	84.73
	18-Jun-03	2	19.05	11.43	11.43	0.00	97.78	86.35
	24-Sep-03	2	19.05	12.42	12.42	0.00	97.78	85.36
	21-Nov-03	2	19.05	12.16	12.16	0.00	97.78	85.62
	24-Mar-04	2	19.05	11.54	11.54	0.00	97.78	86.24

PSH Phase Separated Hydrocarbons

(1) North side of manhole cover (surface grade) relative to the site benchmark, assigned an arbitrary value of 100.00 feet. As of April 2002, the site benchmark is the top bolt of the fire hydrant located at the western corner of the site near the Speedway sign.

(2) When PSH is present, groundwater elevations are corrected by first multiplying PSH thickness by the specific gravity of hydrocarbons (assumed to be 0.76), then subtracting the calculated PSH thickness from the depth to water measurement.

(3) Well under snow pile.

TABLE 2

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Tier 1 Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-1	15-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---
	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-2	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-3	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-4	11-Apr-02	**3.10**	0.069	**2.10**	9.630	**2.60**
Duplicate	11-Apr-02	**2.80**	0.110	**2.00**	9.320	**2.60**
	20-Dec-02	**0.120**	0.027	0.083	0.420	**0.110**
Duplicate	20-Dec-02	**0.110**	0.030	0.078	0.409	**0.120**
	19-Feb-03	**3.60**	0.060	**2.30**	9.27	**1.60**
Duplicate	19-Feb-03	**3.40**	0.065	**2.10**	7.93	**1.80**
	18-Jun-03	**2.60**	0.056	**1.80**	7.87	**0.850**
Duplicate	18-Jun-03	**2.60**	0.059	**1.80**	7.87	**0.550**
	24-Sep-03	**3.20**	0.079	**3.00**	11.27	**3.50**
Duplicate	24-Sep-03	**3.20**	0.086	**3.00**	12.27	**3.50**
	21-Nov-03	**3.90**	0.084	**2.80**	12.25	**2.30**
Duplicate	21-Nov-03	**3.50**	0.059	**2.60**	12.20	**2.20**
	24-Mar-04	**3.00**	0.078	**2.20**	9.30	**2.00**
Duplicate	24-Mar-04	**4.50**	0.220	**2.60**	11.26	**3.10**

TABLE 2

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Tier 1 Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-5	11-Apr-02	0.0018	< 0.001	0.0012	< 0.0047	**0.270**
	20-Dec-02	0.0048	< 0.001	0.003	< 0.015	**0.500**
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.630**
	18-Jun-03	0.0015	< 0.001	0.0014	< 0.0076	**0.910**
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.690**
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.920**
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	**0.990**
MW-6	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-7	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	0.0011	< 0.0056	< 0.004
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-8	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	0.013
	19-Feb-02	< 0.001	< 0.001	< 0.001	< 0.003	0.012
	18-Jun-03	< 0.001	< 0.001	< 0.001	< 0.003	0.015
	24-Sep-03	< 0.001	< 0.001	< 0.001	< 0.003	0.0087
	21-Nov-03	< 0.001	< 0.001	< 0.001	< 0.003	0.0085
	24-Mar-04	< 0.001	< 0.001	< 0.001	< 0.003	0.0079

MTBE — Methyl-Tertiary-Butyl-Ether
ppm — parts per million
Bold — Value exceeds Action Levels
(1) — Samples analyzed by EPA Method 602, 8021 or 8260B.

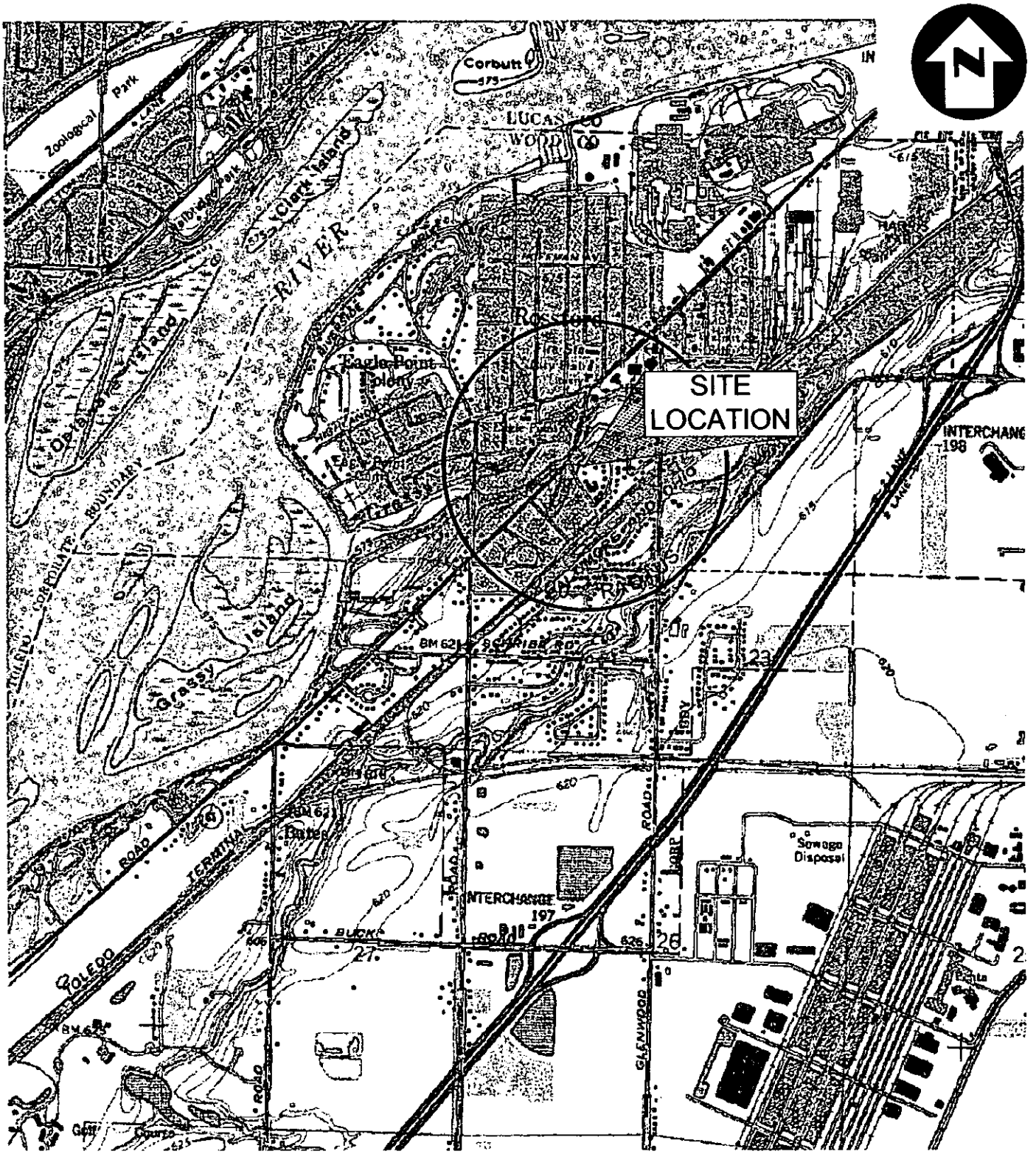
TABLE 3

RESULTS OF LABORATORY ANALYSIS - SOIL

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Interval (feet)	Sample Date	Volatile Organic Compounds (VOCs) [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPH-GRO *(Method 8015)* (ppm)
Action Levels (silty/clayey sand soil):			**0.240**	**112**	**131**	**1,500**	**0.890**	**NA**
Closure Assessment and Site Assessment - July 1997								
L-1	4'	09-Jul-97	**1.7**	19.0	11.0	76.0	---	1,000
D-3	2'	09-Jul-97	0.150	2.3	3.1	26.0	---	380
B-1/MW-1	26-28'	09-Jul-97	0.009	< 0.002	< 0.002	< 0.004	---	< 5.0
B-2	10-12'	10-Jul-97	< 0.002	< 0.002	< 0.002	0.014	---	< 5.0
	16-18'	10-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
B-3	38-40'	10-Jul-97	0.012	0.010	< 0.002	< 0.004	---	< 5.0
UST001 (Used Oil UST)	6'	15-Jul-97	< 0.005	< 0.005	< 0.005	< 0.010	---	< 10.0
Site Assessment - March 1998								
ES-1	9-11'	11-Mar-98	0.004	< 0.002	< 0.002	< 0.004	---	< 5.0
	43-45'	12-Mar-98	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
ES-2	7-9'	12-Mar-98	< 0.125	0.940	1.5	12.0	---	260
Tier 1 Evaluation - March 2002								
MW-2	9-11'	06-Mar-02	< 0.050	0.100	0.400	5.660	< 0.050	---
	33-35'	06-Mar-02	0.013	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-3	9-11'	07-Mar-02	0.018	0.011	0.013	0.088	< 0.010	---
	33-35'	07-Mar-02	0.055	0.035	0.016	0.076	< 0.010	---
MW-4	7-9'	07-Mar-02	**0.400**	0.017	0.140	0.142	0.350	---
	9-11'	07-Mar-02	**0.360**	0.021	0.059	0.137	0.210	---
MW-5	5-7'	07-Mar-02	0.180	0.028	0.064	0.301	0.065	---
	7-9'	07-Mar-02	**0.400**	4.600	8.300	68.0	0.200	---
	9-11'	07-Mar-02	**1.300**	7.500	11.000	84.0	< 0.050	---
	13-15'	07-Mar-02	**1.000**	1.000	2.000	18.7	0.460	---
	29-31'	08-Mar-02	0.050	0.034	0.013	0.078	< 0.010	---
MW-6	1-3'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	5-7'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	17-19'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	29-31'	11-Mar-02	0.019	0.019	0.010	0.062	< 0.010	---
Additional Assessment - December 2002								
MW-7	7-9'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-8	3-5,	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---

MTBE	Methyl-tertiary-butyl-ether
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
ppm	parts per million
Bold	indicates value above Tier 1 Action Levels
(1)	Samples analyzed by EPA Method 8020 or 8260, with the exception of sample UST001 which was analyzed for VOAs by EPA Method 8240 and TPH by EPA Method 418.1.
---	Not analyzed for indicated parameter.



2000 1000 0 2000

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

441032.01000
\\CLEFS01\PROJECTS\SSA...41032SLM.DWG 5/20/04

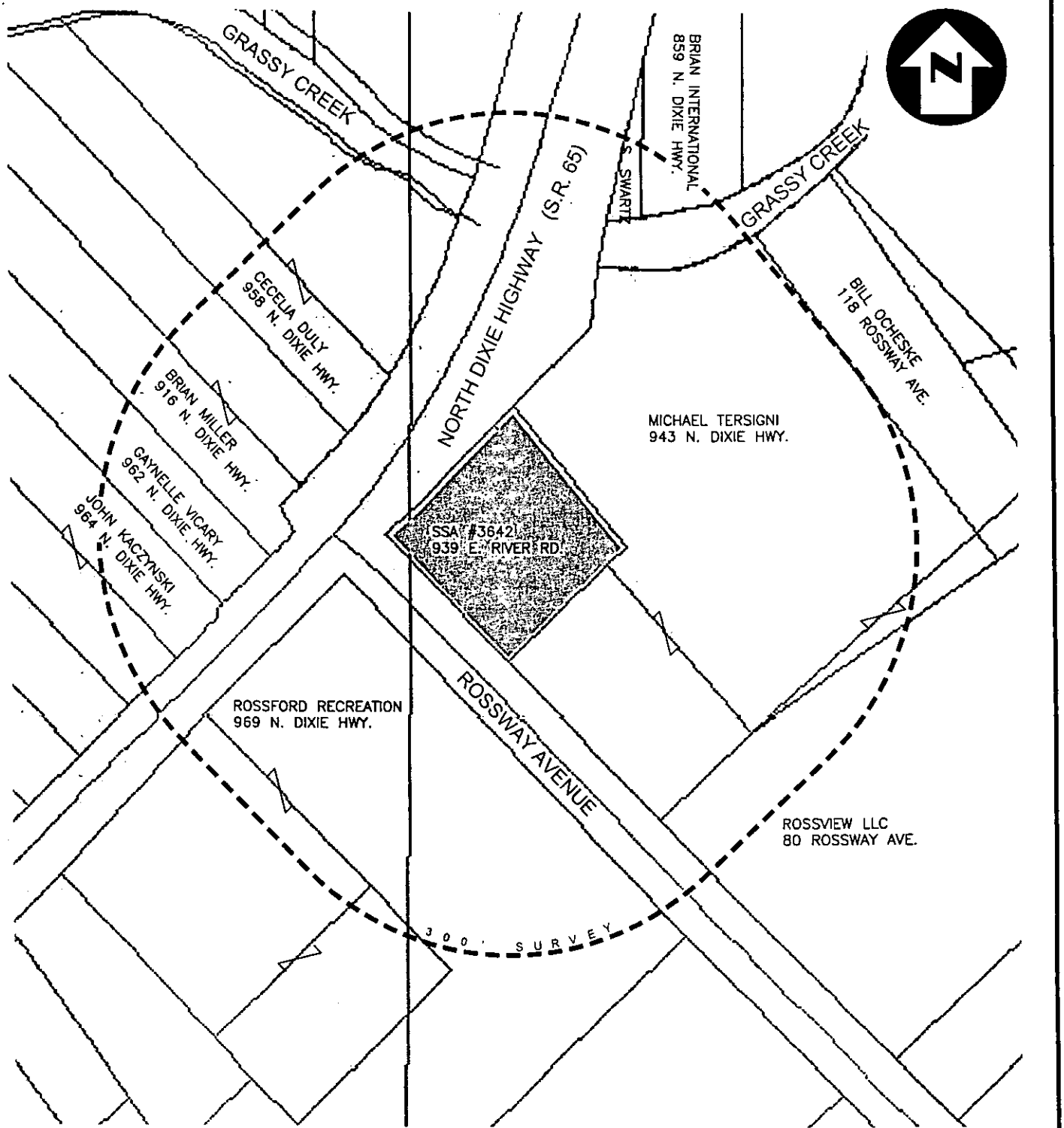
SPEEDWAY SUPERAMERICA LLC

FIGURE 1

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SITE LOCATION MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005



150 75 0 150

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

441032.01000
\\CLEFS01\P:\SSA...41032SPM.DWG 5/20/04

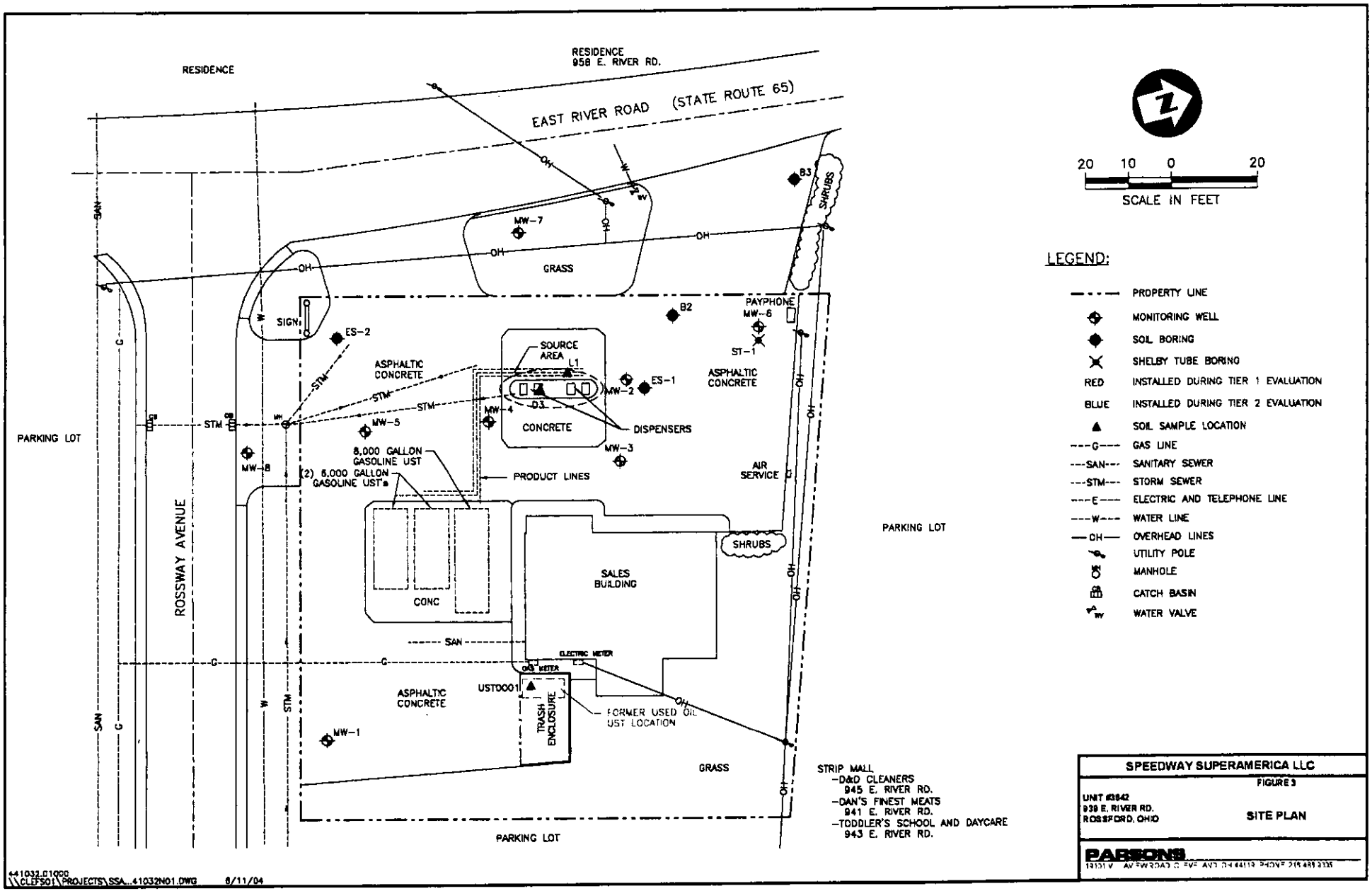
SPEEDWAY SUPERAMERICA LLC

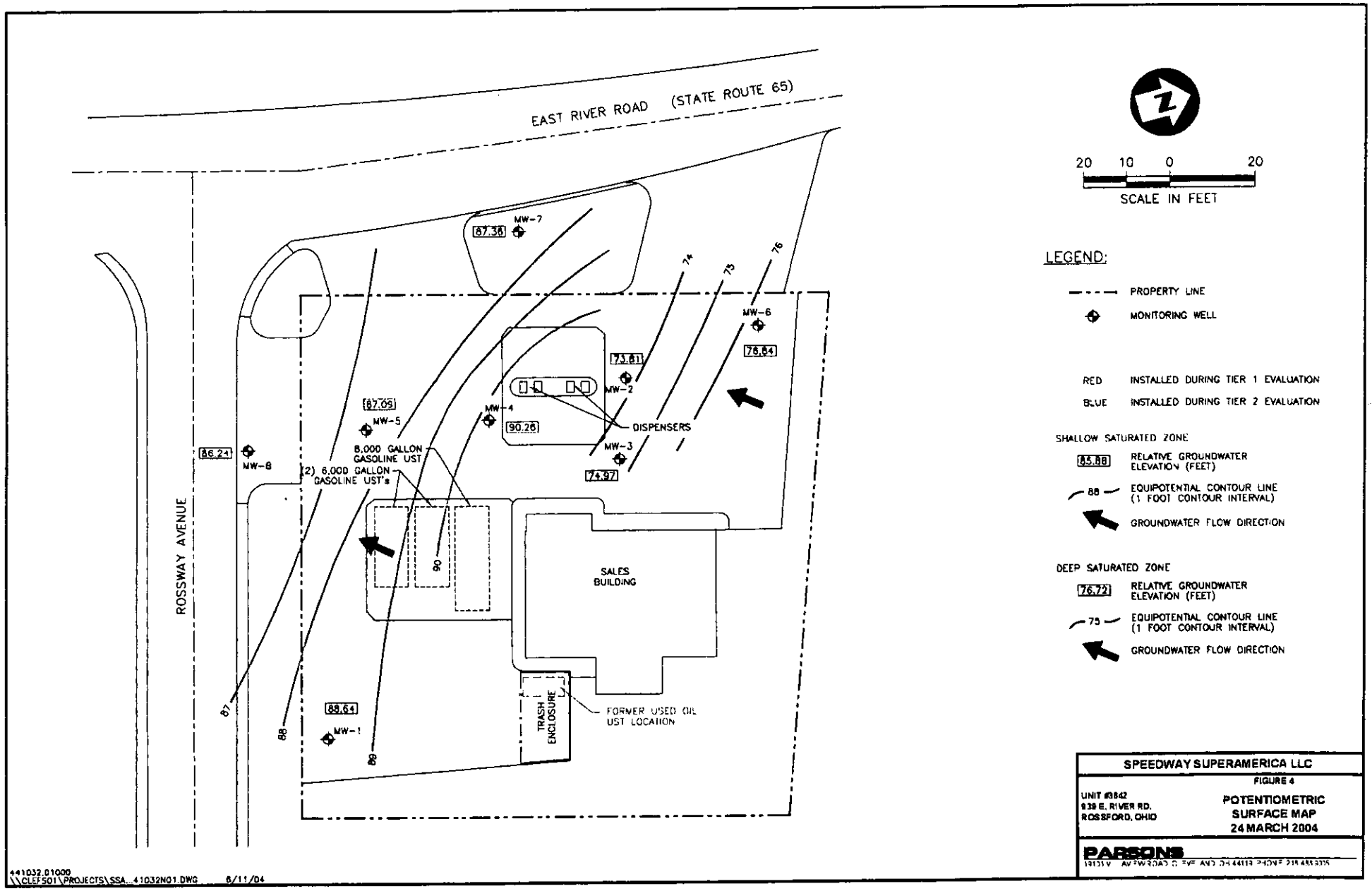
FIGURE 2

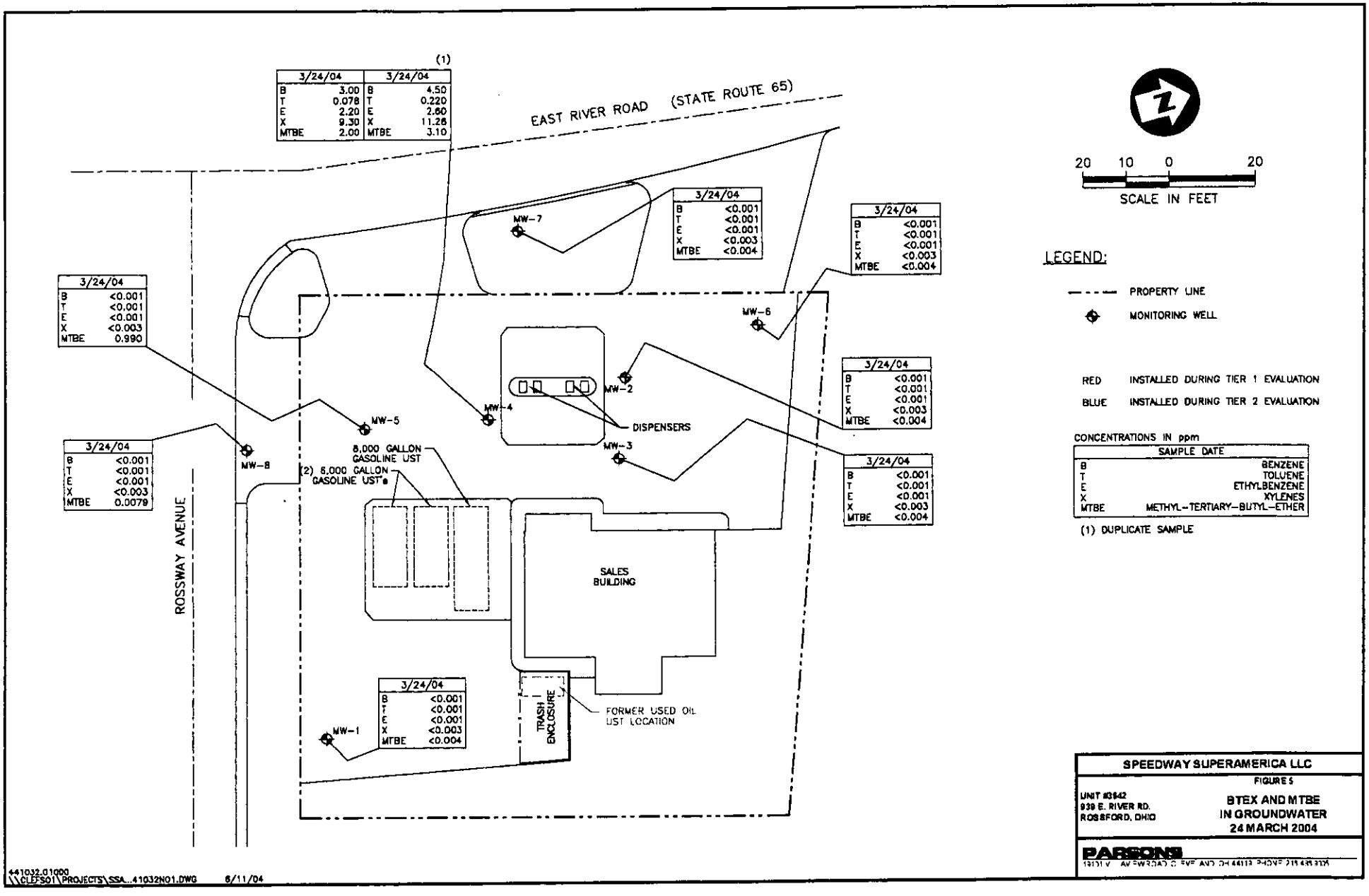
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SURROUNDING PROPERTIES MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005


RESIDENCE
RESIDENCE
958 E. RIVER RD.
EAST RIVER ROAD (STATE ROUTE 65)
SHRUBS
B3
MW-7
GRASS
OH
SAN
SIGN
ES-2
ASPHALTIC CONCRETE
STM
SOURCE AREA
L1
B2
PAYPHONE
MW-6
ST-1
MW-2
ES-1
ASPHALTIC CONCRETE
MW-4
D3
CONCRETE
DISPENSERS
MW-5
MW-3
PARKING LOT
MW-8
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE USTs
PRODUCT LINES
AIR SERVICE
ROSSWAY AVENUE
SALES BUILDING
SHRUBS
PARKING LOT
CONC
SAN
ELECTRIC METER
GAS METER
UST0001
ASPHALTIC CONCRETE
TRASH ENCLOSURE
FORMER USED OIL UST LOCATION
MW-1
GRASS
STRIP MALL
-D&D CLEANERS
945 E. RIVER RD.
-DAN'S FINEST MEATS
941 E. RIVER RD.
-TODDLER'S SCHOOL AND DAYCARE
943 E. RIVER RD.
PARKING LOT
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
SOIL BORING
SHELBY TUBE BORING
RED INSTALLED DURING TIER 1 EVALUATION
BLUE INSTALLED DURING TIER 2 EVALUATION
SOIL SAMPLE LOCATION
GAS LINE
SANITARY SEWER
STORM SEWER
ELECTRIC AND TELEPHONE LINE
WATER LINE
OVERHEAD LINES
UTILITY POLE
MANHOLE
CATCH BASIN
WATER VALVE
SPEEDWAY SUPERAMERICA LLC
FIGURE 3
UNIT #3842
939 E. RIVER RD.
ROSSFORD, OHIO
SITE PLAN
PARSONS
41032.01000
\\CLEFS01\PROJECTS\SSA...41032N01.DWG 6/11/04


EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
MW-7
87.36
MW-6
76.84
MW-2
73.61
MW-4
90.26
MW-5
87.09
MW-8
86.24
MW-3
74.97
DISPENSERS
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE UST's
SALES BUILDING
TRASH ENCLOSURE
FORMER USED OIL UST LOCATION
MW-1
88.64
74
75
76
90
87
88
89
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
RED INSTALLED DURING TIER 1 EVALUATION
BLUE INSTALLED DURING TIER 2 EVALUATION
SHALLOW SATURATED ZONE
85.88 RELATIVE GROUNDWATER ELEVATION (FEET)
88 EQUIPOTENTIAL CONTOUR LINE (1 FOOT CONTOUR INTERVAL)
GROUNDWATER FLOW DIRECTION
DEEP SATURATED ZONE
76.72 RELATIVE GROUNDWATER ELEVATION (FEET)
75 EQUIPOTENTIAL CONTOUR LINE (1 FOOT CONTOUR INTERVAL)
GROUNDWATER FLOW DIRECTION
SPEEDWAY SUPERAMERICA LLC
FIGURE 4
UNIT #3842
939 E. RIVER RD.
ROSSFORD, OHIO
POTENTIOMETRIC SURFACE MAP
24 MARCH 2004
PARSONS
441032.01000
\\CLEFS01\PROJECTS\SSA...41032N01.DWG 6/11/04


(1)
3/24/04
B 3.00
T 0.078
E 2.20
X 9.30
MTBE 2.00
3/24/04
B 4.50
T 0.220
E 2.60
X 11.26
MTBE 3.10
EAST RIVER ROAD (STATE ROUTE 65)
MW-7
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
MW-6
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE 0.990
MW-5
MW-4
MW-2
DISPENSERS
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
MW-3
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE 0.0079
MW-8
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE UST
ROSSWAY AVENUE
SALES BUILDING
3/24/04
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
MW-1
TRASH ENCLOSURE
FORMER USED OIL UST LOCATION
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
RED INSTALLED DURING TIER 1 EVALUATION
BLUE INSTALLED DURING TIER 2 EVALUATION
CONCENTRATIONS IN ppm
SAMPLE DATE
B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
MTBE METHYL-TERTIARY-BUTYL-ETHER
(1) DUPLICATE SAMPLE
SPEEDWAY SUPERAMERICA LLC
FIGURE 5
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO
BTEX AND MTBE IN GROUNDWATER
24 MARCH 2004
PARSONS
441032.01000
\\CLEFS01\PROJECTS\SSA...41032N01.DWG 6/11/04

ATTACHMENT A
LABORATORY REPORTS

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

September 30, 2003

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119

TEL: (216) 486-9005
FAX (216) 486-2369

RE: Speedway #3642

Dear Adam Tucker:

Order No.: 0309393

BIO-CHEM Laboratories, Inc. received 11 samples on 9/25/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to insure a better tomorrow.

440142 00421

PAGE 1 OF 1

Chain-of-Custody-Record

0209393

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 939 E. RIVER RD,
CITY: ROSSFORD, OH
SSA PROJ. MGR: BRIAN EPPERSON
OFFICE: ENON ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 864-3000 FAX# (937) 863-6078
AFE#: 010585 WORK ORDER#: 4214537
CODE: 20 TYPE: L

LAB: Bio Chem Laboratories
CONSULTANT: PARSONS
ADDRESS: 19101 VILLAVIEW RD. STE. 100
CLEVELAND, OH 44119
PROJECT MGR: ADAM TUCKER
PHONE# (216) 486-9005 FAX# (216) 486-2369
SAMPLER: CHERYL HUEY
SHIPPED VIA: Fed Ex
TRACKING #: 7929 7589 4903

TURN AROUND TIME
STANDARD ☒
RUSH ☐

Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX 8021B	MTBE 8021B						Remarks
MW-1	9-24-03 0656	W	2	40ml	HCL	✓	✓						
MW-2	9-24-03 0615	W	2	40ml	HCL	✓	✓						
MW-3	9-24-03 0621	W	2	40ml	HCL	✓	✓						
MW-4	9-24-03 0626	W	2	40ml	HCL	✓	✓						
MW-5	9-24-03 0645	W	2	40ml	HCL	✓	✓						
MW-6	9-24-03 0610	W	2	40ml	HCL	✓	✓						
MW-7	9-24-03 0633	W	2	40ml	HCL	✓	✓						
MW-8	9-24-03 0640	W	2	40ml	HCL	✓	✓						
MW-A	9-24-03 0627	W	2	40ml	HCL	✓	✓						
MW-B	9-24-03 0631	W	2	40ml	HCL	✓	✓						
TRIP BLANK	8/6/03	W	2	40ml	HCL	✓	✓						

CUSTODY RECORD

	Relinquished by:	Date	Time	Received by:	Date	Time
	Cheryl Huey	9/24/03	1425	Sue Machos	9/24/03	1425
	Relinquished by: Sue Machos	9/24/03	5pm	Received by laboratory: Karen Saunds	9/25/03	1:00
	Special Reporting Requirements			Lab Notes:	Temp	ice < 4°C

BIO-CHEM Laboratories, Inc.

Date: *30-Sep-03*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0309393

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
0309393-01A	MW-1	Aqueous	9/24/2003	9/25/2003
0309393-02A	MW-2	Aqueous	9/24/2003	9/25/2003
0309393-03A	MW-3	Aqueous	9/24/2003	9/25/2003
0309393-04A	MW-4	Aqueous	9/24/2003	9/25/2003
0309393-05A	MW-5	Aqueous	9/24/2003	9/25/2003
0309393-06A	MW-6	Aqueous	9/24/2003	9/25/2003
0309393-07A	MW-7	Aqueous	9/24/2003	9/25/2003
0309393-08A	MW-8	Aqueous	9/24/2003	9/25/2003
0309393-09A	MW-A	Aqueous	9/24/2003	9/25/2003
0309393-10A	MW-B	Aqueous	9/24/2003	9/25/2003
0309393-11A	Trip Blank	Aqueous	8/6/2003	9/25/2003

BIO-CHEM Laboratories, Inc. **Date:** *30-Sep-03*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0309393

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-01A

Project Number: 440142 00421
Client Sample ID: MW-1
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-02A

Project Number: 440142 00421
Client Sample ID: MW-2
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-03A

Project Number: 440142 00421
Client Sample ID: MW-3
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-04A

Project Number: 440142 00421
Client Sample ID: MW-4
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,200		10	µg/L	10	DRF	9/26/2003
2. Toluene	SW8260B	79		10	µg/L	10	DRF	9/26/2003
3. Ethylbenzene	SW8260B	3,000		10	µg/L	10	DRF	9/26/2003
4. o-Xylene	SW8260B	270		10	µg/L	10	DRF	9/26/2003
5. m,p-Xylene	SW8260B	11,000		20	µg/L	10	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	3,500		40	µg/L	10	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-05A

Project Number: 440142 00421
Client Sample ID: MW-5
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	690		20	µg/L	5	DRF	9/29/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-06A

Project Number: 440142 00421
Client Sample ID: MW-6
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-07A

Project Number: 440142 00421
Client Sample ID: MW-7
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-08A

Project Number: 440142 00421
Client Sample ID: MW-8
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/26/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	8.7		4.0	µg/L	1	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-09A

Project Number: 440142 00421
Client Sample ID: MW-A
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,200		25	µg/L	25	DRF	9/26/2003
2. Toluene	SW8260B	86		25	µg/L	25	DRF	9/26/2003
3. Ethylbenzene	SW8260B	3,000		25	µg/L	25	DRF	9/26/2003
4. o-Xylene	SW8260B	270		25	µg/L	25	DRF	9/26/2003
5. m,p-Xylene	SW8260B	12,000		50	µg/L	25	DRF	9/26/2003
6. Methyl tert-butyl ether	SW8260B	3,500		100	µg/L	25	DRF	9/26/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-10A

Project Number: 440142 00421
Client Sample ID: MW-B
Collection Date: 9/24/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/27/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *9/30/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0309393
Project: Speedway #3642
Lab Sample ID: 0309393-11A

Project Number: 440142 00421
Client Sample ID: Trip Blank
Collection Date: 8/6/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	9/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	9/27/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	9/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Lab Order: 0309393
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0309393-01A	MW-1	Aqueous	VOLATILES by GC/MS	9/24/2003			R32275	9/26/2003	GCMS_Q_030926A
0309393-02A	MW-2	Aqueous	VOLATILES by GC/MS	9/24/2003			R32275	9/26/2003	GCMS_Q_030926A
0309393-03A	MW-3	Aqueous	VOLATILES by GC/MS	9/24/2003			R32275	9/26/2003	GCMS_Q_030926A
0309393-04A	MW-4	Aqueous	VOLATILES by GC/MS	9/24/2003			R32273	9/26/2003	GCMS_Z_030926A
0309393-05A	MW-5	Aqueous	VOLATILES by GC/MS	9/24/2003			R32307	9/29/2003	GCMS_X_030929A
	MW-5	Aqueous	VOLATILES by GC/MS	9/24/2003			R32275	9/26/2003	GCMS_Q_030926A
0309393-06A	MW-6	Aqueous	VOLATILES by GC/MS	9/24/2003			R32275	9/26/2003	GCMS_Q_030926A
0309393-07A	MW-7	Aqueous	VOLATILES by GC/MS	9/24/2003			R32276	9/26/2003	GCMS_Q_030926B
0309393-08A	MW-8	Aqueous	VOLATILES by GC/MS	9/24/2003			R32276	9/26/2003	GCMS_Q_030926B
0309393-09A	MW-A	Aqueous	VOLATILES by GC/MS	9/24/2003			R32273	9/26/2003	GCMS_Z_030926A
0309393-10A	MW-B	Aqueous	VOLATILES by GC/MS	9/24/2003			R32276	9/27/2003	GCMS_Q_030926B
0309393-11A	Trip Blank	Aqueous	VOLATILES by GC/MS	8/6/2003			R32276	9/27/2003	GCMS_Q_030926B

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

December 02, 2003

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119

TEL: (216) 486-9005
FAX (216) 486-2369

RE: Speedway #3642

Dear Adam Tucker: Order No.: 0311395

BIO-CHEM Laboratories, Inc. received 11 samples on 11/25/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Sarah Honderd

Sarah Honderd
Administrative Assistant

RECEIVED
DEC 05 2003
Parsons

4401420042 1

PAGE 1 OF 1

Chain-of-Custody-Record

031395

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 939 E. RIVER RD.
CITY: ROSSFORD, OH
SSA PROJ. MGR: BRIAN EPPERSON
OFFICE: ENON ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 864-3000 FAX# (937) 863-6078
AFE#: 010585 WORK ORDER#: 4214537
CODE: 47 TYPE: L

TURN AROUND TIME
STANDARD ☒
RUSH ☐

LAB: Bio Chem Laboratories
CONSULTANT: PARSONS
ADDRESS: 19101 VILLAVIEW RD. STE. 100
CLEVELAND, OH 44119
PROJECT MGR: ADAM TUCKER
PHONE# (216) 486-9005 FAX# (216) 486-2369
SAMPLER: CHERYL HUEY
SHIPPED VIA: Fed Ex
TRACKING #: 7925 1772 0033

Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX 8021B	Analysis to be Performed: MTBE 8021B	Remarks
MW-1	11-21-03 0555	W	2	40ml	HCL	✓	✓	
MW-2	11-21-03 0533	W	2	40ml	HCL	✓	✓	
MW-3	11-21-03 0536	W	2	40ml	HCL	✓	✓	
MW-4	11-21-03 0541	W	2	40ml	HCL	✓	✓	
MW-5	11-21-03 0558	W	2	40ml	HCL	✓	✓	
MW-6	11-21-03 0530	W	2	40ml	HCL	✓	✓	
MW-7	11-21-03 0547	W	2	40ml	HCL	✓	✓	
MW-8	11-21-03 0550	W	2	40ml	HCL	✓	✓	
DUPLICATE-1	11-21-03 0542	W	2	40ml	HCL	✓	✓	
EQUIPMENT BLANK	11-21-03 0553	W	2	40ml	HCL	✓	✓	
TRIP BLANK	11/6/03	W	2	40ml	HCL	✓	✓	
				~~40m~~	~~HCL~~			

CUSTODY RECORD

	Relinquished by:	Date	Time	Received by:	Date	Time
	Cheryl Huey	11/21/03	0820	Sue Mackey	11/21/03	0820
	Sue Mackey	11/24/03	5pm	Lori Folkerts-Ma	11-25-03	11:45

Special Reporting Requirements:

Lab Notes:

Temp: Ice 4

BIO-CHEM Laboratories, Inc.

Date: *02-Dec-03*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0311395

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
0311395-01A	MW-1	Aqueous	11/21/2003	11/25/2003
0311395-02A	MW-2	Aqueous	11/21/2003	11/25/2003
0311395-03A	MW-3	Aqueous	11/21/2003	11/25/2003
0311395-04A	MW-4	Aqueous	11/21/2003	11/25/2003
0311395-05A	MW-5	Aqueous	11/21/2003	11/25/2003
0311395-06A	MW-6	Aqueous	11/21/2003	11/25/2003
0311395-07A	MW-7	Aqueous	11/21/2003	11/25/2003
0311395-08A	MW-8	Aqueous	11/21/2003	11/25/2003
0311395-09A	Duplicate-1	Aqueous	11/21/2003	11/25/2003
0311395-10A	Equipment Blank	Aqueous	11/21/2003	11/25/2003
0311395-11A	Trip Blank	Aqueous	11/6/2003	11/25/2003

BIO-CHEM Laboratories, Inc. **Date:** *02-Dec-03*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0311395

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-01A

Project Number: 440142 00421
Client Sample ID: MW-1
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/28/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/28/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-02A

Project Number: 440142 00421
Client Sample ID: MW-2
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-03A

Project Number: 440142 00421
Client Sample ID: MW-3
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-04A

Project Number: 440142 00421
Client Sample ID: MW-4
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,900		50	µg/L	50	DRF	11/27/2003
2. Toluene	SW8260B	84		50	µg/L	50	DRF	11/27/2003
3. Ethylbenzene	SW8260B	2,800		50	µg/L	50	DRF	11/27/2003
4. o-Xylene	SW8260B	250		50	µg/L	50	DRF	11/27/2003
5. m,p-Xylene	SW8260B	12,000		100	µg/L	50	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	2,300		200	µg/L	50	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-05A

Project Number: 440142 00421
Client Sample ID: MW-5
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	920		40	µg/L	10	DRF	12/1/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-06A
Project Number: 440142 00421
Client Sample ID: MW-6
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	12/1/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	12/1/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	12/1/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	12/1/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	12/1/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	12/1/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-07A

Project Number: 440142 00421
Client Sample ID: MW-7
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-08A

Project Number: 440142 00421
Client Sample ID: MW-8
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/27/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/27/2003
6. Methyl tert-butyl ether	SW8260B	8.5		4.0	µg/L	1	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-09A

Project Number: 440142 00421
Client Sample ID: Duplicate-1
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,500		50	µg/L	50	DRF	12/1/2003
2. Toluene	SW8260B	59		10	µg/L	10	DRF	11/27/2003
3. Ethylbenzene	SW8260B	2,600		10	µg/L	10	DRF	11/27/2003
4. o-Xylene	SW8260B	220		10	µg/L	10	DRF	11/27/2003
5. m,p-Xylene	SW8260B	12,000		100	µg/L	50	DRF	12/1/2003
6. Methyl tert-butyl ether	SW8260B	2,200		40	µg/L	10	DRF	11/27/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-10A

Project Number: 440142 00421
Client Sample ID: Equipment Blank
Collection Date: 11/21/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/28/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/28/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *12/2/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0311395
Project: Speedway #3642
Lab Sample ID: 0311395-11A

Project Number: 440142 00421
Client Sample ID: Trip Blank
Collection Date: 11/6/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	11/28/2003
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	11/28/2003
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	11/28/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

Lab Order: 0311395
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0311395-01A	MW-1	Aqueous	VOLATILES by GC/MS	11/21/2003			R33486	11/28/2003	GCMS_K_031127B
0311395-02A	MW-2	Aqueous	VOLATILES by GC/MS	11/21/2003			R33487	11/27/2003	GCMS_X_031127A
0311395-03A	MW-3	Aqueous	VOLATILES by GC/MS	11/21/2003			R33487	11/27/2003	GCMS_X_031127A
0311395-04A	MW-4	Aqueous	VOLATILES by GC/MS	11/21/2003			R33491	11/27/2003	GCMS_D_031127A
0311395-05A	MW-5	Aqueous	VOLATILES by GC/MS	11/21/2003			R33515	12/1/2003	GCMS_D_031201A
	MW-5	Aqueous	VOLATILES by GC/MS	11/21/2003			R33487	11/27/2003	GCMS_X_031127A
0311395-06A	MW-6	Aqueous	VOLATILES by GC/MS	11/21/2003			R33516	12/1/2003	GCMS_K_031201A
0311395-07A	MW-7	Aqueous	VOLATILES by GC/MS	11/21/2003			R33487	11/27/2003	GCMS_X_031127A
0311395-08A	MW-8	Aqueous	VOLATILES by GC/MS	11/21/2003			R33487	11/27/2003	GCMS_X_031127A
0311395-09A	Duplicate-1	Aqueous	VOLATILES by GC/MS	11/21/2003			R33518	12/1/2003	GCMS_Z_031201A
	Duplicate-1	Aqueous	VOLATILES by GC/MS	11/21/2003			R33491	11/27/2003	GCMS_D_031127A
0311395-10A	Equipment Blank	Aqueous	VOLATILES by GC/MS	11/21/2003			R33486	11/28/2003	GCMS_K_031127B
0311395-11A	Trip Blank	Aqueous	VOLATILES by GC/MS	11/6/2003			R33486	11/28/2003	GCMS_K_031127B

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

April 01, 2004

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119

TEL: (216) 486-9005
FAX (216) 486-2369

RE: Speedway #3642

Dear Adam Tucker: Order No.: 0403358

BIO-CHEM Laboratories, Inc. received 11 samples on 3/26/2004 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Sarah Honderd

Sarah Honderd
Administrative Assistant

Working with you to insure a better tomorrow.

0403358

Page 1 of 2 **Chain-of-Custody-Record** **COC ID # 00000630**

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642		
ADDRESS:	939 E River Rd		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Brian K. Epperson		
PHONE #:	937-863-6514	FAX #:	(937)863-6078
AFE #:	10585	WORK ORDER #:	4214537
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

LAB:	BIO-CHEM LABORATORIES INC		
CONSULTANT:	PARSONS ENGINEERING SCI INC		
PROJECT MGR:	Adam C. Tucker		
ADDRESS:	19101 Villaview Road Cleveland, Ohio 44119		
PHONE #:	216-486-9005	FAX #:	216-486-6119
SAMPLER:	Cheryl Huey		
SHIPPED VIA:	FedExp		
TRACKING #:	7905 9004 4796		

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
01	Duplicate	03/24/2004 05:55am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
02	EQUIPMENT BLANK	03/24/2004 05:53am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
03	MW-1	03/24/2004 05:35am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
04	MW-2	03/24/2004 05:24am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
05	MW-3	03/24/2004 05:28am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
06	MW-4	03/24/2004 05:54am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
07	MW-5	03/24/2004 05:46am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
08	MW-6	03/24/2004 05:21am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
09	MW-7	03/24/2004 05:50am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
10	MW-8	03/24/2004 05:40am	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Cheryl Huey	Date 3/24/04	Time 2100	Received by: Sue Mackas	Date 3/24/04	Time 2100
Relinquished by: Sue Mackas	Date 3/25/04	Time 5pm	Received by laboratory: Fed Ex	Date 3-26-04	Time 9:00
Special Reporting Requirements: *None* Fed Ex			Lab Notes: Lori Fellerstein	Temp	Ice < 4

0403358

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00000630

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 E River Rd
CITY: Rossford STATE: OH
SSA PROJ. MGR: Brian K. Epperson
PHONE #: 937-863-6514 FAX #: (937)863-6078
AFE #: 10585 WORK ORDER #: 4214537
CODE: 44 - Operation, Maintenance, and Monitoring
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: BIO-CHEM LABORATORIES INC
CONSULTANT: PARSONS ENGINEERING SCI INC
PROJECT MGR: Adam C. Tucker
ADDRESS: 19101 Villaview Road
Cleveland, Ohio 44119
PHONE #: 216-486-9005 FAX #: 216-486-6119
SAMPLER: Cheryl Huey
SHIPPED VIA: FedExp
TRACKING #: 7905 9004 4796

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	02/09/2004 12:00am	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Cheryl Huey Date 3/24/04 Time 2100
Relinquished by: Sue Macha Date 3/25/04 Time 5pm
Special Reporting Requirements: *None* Fed Ex

Received by: Sue Macha Date 3/24/04 Time 2100
Received by laboratory Fed Ex Date 3-26-04 Time 9:00
Lab Notes: Lori Fitzpatrick Temp Ice Ly

BIO-CHEM Laboratories, Inc.

Date: *01-Apr-04*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0403358

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
0403358-01A	Duplicate	Aqueous	3/24/2004 5:55:00	3/26/2004
0403358-02A	EQUIPMENT BLANK	Aqueous	3/24/2004 5:53:00	3/26/2004
0403358-03A	MW-1	Aqueous	3/24/2004 5:35:00	3/26/2004
0403358-04A	MW-2	Aqueous	3/24/2004 5:24:00	3/26/2004
0403358-05A	MW-3	Aqueous	3/24/2004 5:28:00	3/26/2004
0403358-06A	MW-4	Aqueous	3/24/2004 5:54:00	3/26/2004
0403358-07A	MW-5	Aqueous	3/24/2004 5:46:00	3/26/2004
0403358-08A	MW-6	Aqueous	3/24/2004 5:21:00	3/26/2004
0403358-09A	MW-7	Aqueous	3/24/2004 5:50:00	3/26/2004
0403358-10A	MW-8	Aqueous	3/24/2004 5:40:00	3/26/2004
0403358-11A	TRIP BLANK	Aqueous	2/9/2004	3/26/2004

BIO-CHEM Laboratories, Inc. **Date:** *01-Apr-04*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0403358

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-01A

Project Number: N/A
Client Sample ID: Duplicate
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	4,500		10	µg/L	10	DRF	3/27/2004
2. Toluene	SW8260B	220		10	µg/L	10	DRF	3/27/2004
3. Ethylbenzene	SW8260B	2,600		10	µg/L	10	DRF	3/27/2004
4. o-Xylene	SW8260B	260		10	µg/L	10	DRF	3/27/2004
5. m,p-Xylene	SW8260B	11,000		20	µg/L	10	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	3,100		40	µg/L	10	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-02A

Project Number: N/A
Client Sample ID: EQUIPMENT BLANK
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	N/A
Lab Order:	0403358	**Client Sample ID:**	MW-1
Project:	Speedway #3642	**Collection Date:**	3/24/2004
Lab Sample ID:	0403358-03A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-04A

Project Number: N/A
Client Sample ID: MW-2
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-05A

Project Number: N/A
Client Sample ID: MW-3
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-06A

Project Number: N/A
Client Sample ID: MW-4
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,000		10	µg/L	10	DRF	3/31/2004
2. Toluene	SW8260B	78		10	µg/L	10	DRF	3/31/2004
3. Ethylbenzene	SW8260B	2,200		10	µg/L	10	DRF	3/31/2004
4. o-Xylene	SW8260B	200		10	µg/L	10	DRF	3/31/2004
5. m,p-Xylene	SW8260B	9,100		20	µg/L	10	DRF	3/31/2004
6. Methyl tert-butyl ether	SW8260B	2,000		40	µg/L	10	DRF	3/31/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-07A

Project Number: N/A
Client Sample ID: MW-5
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	990		20	µg/L	5	DRF	3/29/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-08A

Project Number: N/A
Client Sample ID: MW-6
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-09A

Project Number: N/A
Client Sample ID: MW-7
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/27/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/27/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/27/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-10A

Project Number: N/A
Client Sample ID: MW-8
Collection Date: 3/24/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/26/2004
6. Methyl tert-butyl ether	SW8260B	7.9		4.0	µg/L	1	DRF	3/26/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/1/2004*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0403358
Project: Speedway #3642
Lab Sample ID: 0403358-11A

Project Number: N/A
Client Sample ID: TRIP BLANK
Collection Date: 2/9/2004
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
2. Toluene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
3. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
4. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	DRF	3/26/2004
5. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	DRF	3/26/2004
6. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	DRF	3/26/2004

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

Lab Order: 0403358
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0403358-01A	Duplicate	Aqueous	VOLATILES by GC/MS	3/24/2004			R35582	3/27/2004	GCMS_X_040326B
0403358-02A	EQUIPMENT BLANK	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
	EQUIPMENT BLANK	Aqueous	VOLATILES by GC/MS	3/24/2004			R35582	3/27/2004	GCMS_X_040326B
0403358-03A	MW-1	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-04A	MW-2	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-05A	MW-3	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-06A	MW-4	Aqueous	VOLATILES by GC/MS	3/24/2004			R35687	3/31/2004	GCMS_Y_040330B
0403358-07A	MW-5	Aqueous	VOLATILES by GC/MS	3/24/2004			R35634	3/29/2004	GCMS_Q_040329A
	MW-5	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-08A	MW-6	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-09A	MW-7	Aqueous	VOLATILES by GC/MS	3/24/2004			R35590	3/27/2004	GCMS_K_040326B
0403358-10A	MW-8	Aqueous	VOLATILES by GC/MS	3/24/2004			R35581	3/26/2004	GCMS_X_040326A
0403358-11A	TRIP BLANK	Aqueous	VOLATILES by GC/MS	2/9/2004			R35581	3/26/2004	GCMS_X_040326A

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

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Brecksville, OH 44141-3219
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440-838-7177
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GROUNDWATER SAMPLING REPORT
(First Event)

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio
Wood County
BUSTR Release #87000087-N00002

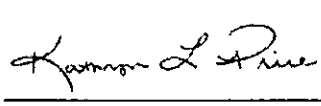
Prepared for:

Mr. Keith A. Hughes
Advanced Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

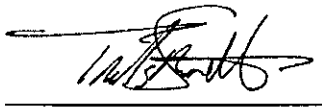
Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0340



Kathryn Price
Staff Geologist



Travis S. Bukach, P.G.
Project Manager

5 April 2007

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Appendix A Groundwater Analytical Laboratory Report and Chain-of-Custody Records

Appendix B Purge Log – (2/21/2007)

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct groundwater sampling activities at SSA Store #3642 located at 939 Dixie Highway in Rossford, Wood County, Ohio (**Figures 1 & 2**). This report summarizes groundwater monitoring and sampling activities conducted at the site on February 21, 2007, in accordance with the site-specific Groundwater Monitoring Plan outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* (December 2006).

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

The Bureau of Underground Storage Tank Regulations (BUSTR) issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern (COCs) are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

3.0 SAMPLING METHODOLOGY AND RESULTS

3.1 Groundwater Monitoring and Sampling

On February 21, 2007, depth to fluid measurements and groundwater samples were collected from monitoring wells MW-2 through MW-6 and MW-8 through MW-10. Monitoring wells MW-1 and MW-7 were inaccessible due to heavy snow and ice accumulation. Depth to fluid measurements were collected with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**).

Based on the measured groundwater elevations, groundwater movement across the site is to the north-northwest (**Figure 2).** Clean, latex gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination.

Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The bailers were decontaminated after use in each well by scrubbing with an Alconox™ and water solution, rinsing with de-ionized water, followed by a final rinse with de-ionized water. The wells were then allowed to recharge before water samples were collected.

Water samples were collected with dedicated disposable bailers, and divided between two laboratory-supplied 40-milliliter vials. A trip blank and duplicate samples (MW-5) were also submitted. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for BTEX and MTBE by United States Environmental Protection Agency (U.S. EPA) Method 8260B. The results of the laboratory analyses have been summarized in **Tables 3 and 4** and are illustrated on **Figure 3**. The complete laboratory report has been included in **Appendix A**.

3.2 Analytical Results

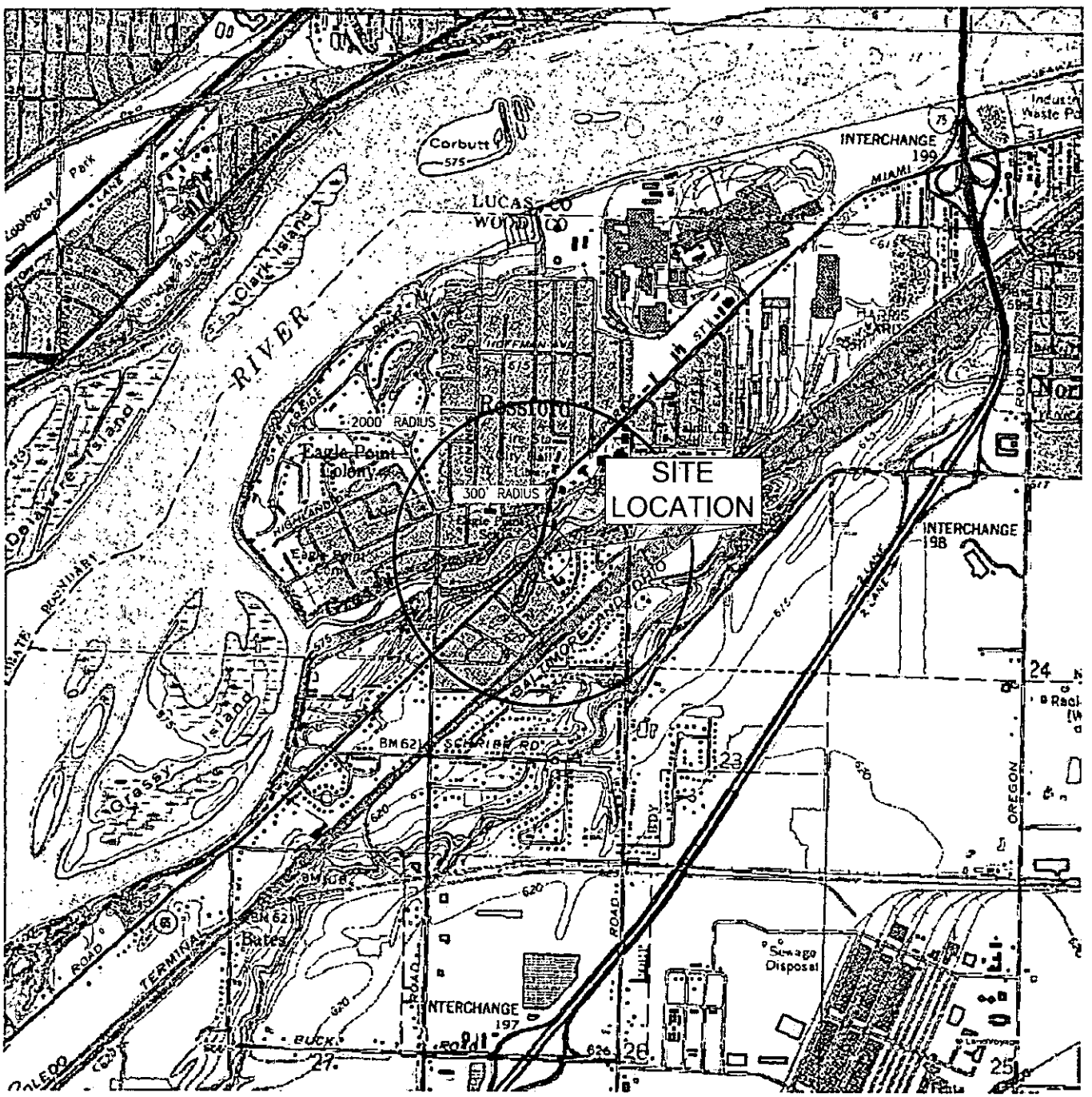
The laboratory analytical results for groundwater samples collected on February 21, 2007 indicate MTBE concentrations in monitoring wells MW-4 and MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs) and/or Tier 1 action levels. All other chemicals of concern concentrations were below action levels in all of the wells.

Historical soil analytical results have been included as **Tables 1 and 2,** and historical groundwater in **Tables 3 & 4** for reference.

4.0 CONCLUSIONS

This completes the first of four quarterly groundwater sampling events outlined in the Tier 3 Plan with Monitoring Plan from the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* submitted in December 2006. Two additional Groundwater Sampling Reports will be completed, with the final groundwater sampling event summarized with all previously collected data in a Tier 3 Evaluation Report.

FIGURES



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map: Rossford, OH Quadrangle 1980; Scale: 1:24,000

N

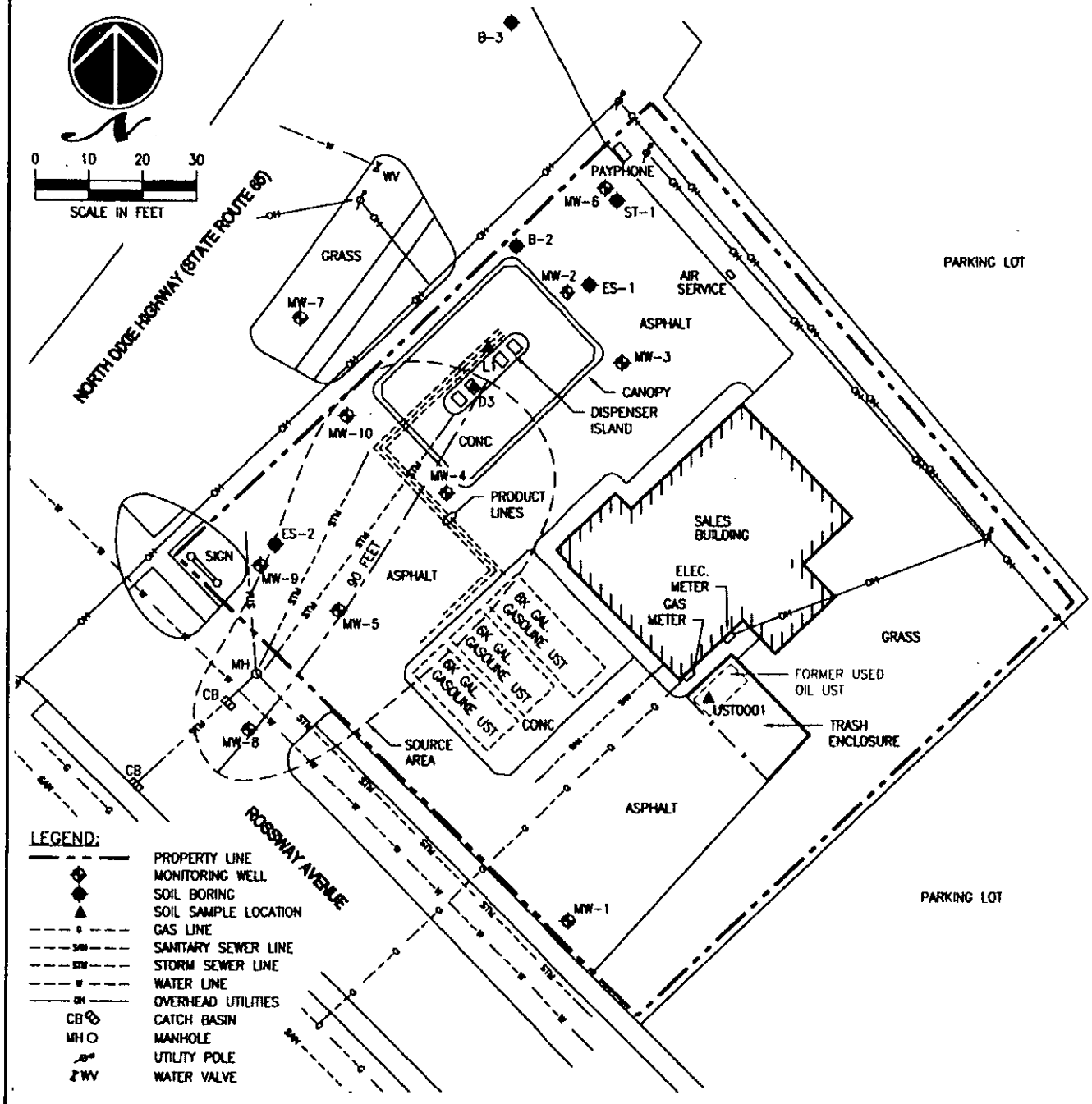
...SSA3642-SLM.DWG 11/10/06

ATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-08	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels		5.000	1000.000	700.000	10000.000	40.000
TRIP BLANK	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels		10000.000	1000.000	10000.000	100000.000	40.000
MW-02	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-03	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-04	02/21/07	1720.000	35.000	2030.000	7351.000	**2290.000**
MW-05	02/21/07	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
MW-06	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-09	02/21/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-10	02/21/07	103.000	< 1.000	4.100	9.100	23.000

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-ETMS - Monday, March 12, 2007

Speedway SuperAmerica LLC
Store #***3642***
939 Dixie Hwy
Rossford,OH 43460-1332

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.025	< 0.100	0.840	5.100	< 0.250

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	02/21/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	~~03/05/2007~~	~~00:00~~	~~97.98~~	~~90.27~~	~~7.71~~	~~7.7~~	~~.01~~								
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 1.000	4.100	9.100	23.000
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.78	86.48	12.3										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-08	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

APPENDIX A

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

SPL Inc.
459 Hughes Drive
Traverse City, MI 49686
Phone: (231) 947-5777
Fax: (231) 947-7455

Certificate of Analysis

March 5, 2007

Workorder: T07020217

Travis Bukach
ATC ASSOCIATES, INC.
10020 Brecksville Road
Brecksville, OH 44141

Project: 3642 - SPEEDWAY STATION

Project Number: 08.75116.0340

Site: 939 DIXIE HWY, ROSSFORD, OH

PO Number: 00010468

NELAC Cert. No.: 100407

State: OH

State Cert. No.:

Dear Travis Bukach:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, February 23, 2007.

Results are reported on a wet weight basis unless dry-weight correction is denoted on the analytical report.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria throughout the entire analytical process.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. NELAP issues parameter accreditation. Accreditation information for SPL can be obtained by contacting your Project Manager, the laboratory QA Officer, or on the SPL website at www.spl-inc.com.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples being submitted for testing.

If you have any questions concerning this report, please feel free to contact me. Please reference the above Workorder number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sincerely,

S. L. Grenda, Laboratory Manager

Enclosures

SPL Inc.
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Fax: (231) 947-7455

Summary

Company: ATC/SPEEDWAY - Keith Hughes (Funded) - Brecksville Project No: 08.75116.0340

Site: 3642 - SPEEDWAY STATION - 939 DIXIE HWY, ROSSFORD, OH Project: Travis Bukach - Funded - OH Site

SPL ID / Matrix	Client ID / Date Sampled	Benzene PQL / Units	Toluene PQL / Units	Ethyl Ben. PQL / Units	Xylenes PQL / Units	TPH-GRO PQL / Units	TPH-DRO PQL / Units	O & G PQL / Units	Lead PQL / Units	Cadmium PQL / Units	Chromium PQL / Units	MTBE PQL / Units	Chlorides PQL / Units
T07020217001	Duplicate	ND	ND	ND	ND							1220	
Water	02/21/2007 00:00	2.0	5.0	5.0	5.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217002	TRIP BLANK	ND	ND	ND	ND							ND	
Water	02/21/2007 00:00	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217003	MW-3	ND	ND	ND	ND							ND	
Water	02/21/2007 11:07	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217004	MW-2	ND	ND	ND	ND							ND	
Water	02/21/2007 11:12	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217005	MW-6	ND	ND	ND	ND							ND	
Water	02/21/2007 11:16	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217006	MW-10	103	ND	4.1	9.1							23	
Water	02/21/2007 11:22	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217007	MW-9	ND	ND	ND	ND							ND	
Water	02/21/2007 11:26	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	

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Summary

Company: ATC/SPEEDWAY - Keith Hughes (Funded) - Brecksville Project No: 08.75116.0340

Site: 3642 - SPEEDWAY STATION - 939 DIXIE HWY, ROSSFORD, OH Project: Travis Bukach - Funded - OH Site

SPL ID / Matrix	Client ID / Date Sampled	Benzene PQL / Units	Toluene PQL / Units	Ethyl Ben. PQL / Units	Xylenes PQL / Units	TPH-GRO PQL / Units	TPH-DRO PQL / Units	O & G PQL / Units	Lead PQL / Units	Cadmium PQL / Units	Chromium PQL / Units	MTBE PQL / Units	Chlorides PQL / Units
T07020217008	MW-8	ND	ND	ND	ND							ND	
Water	02/21/2007 11:30	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217009	MW-5	ND	ND	ND	ND							1190	
Water	02/21/2007 11:38	2.0	5.0	5.0	5.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07020217010	MW-4	1720	35	2030	7351.							2290	
Water	02/21/2007 11:51	4.0	10	10	10							10	
		ug/l	ug/l	ug/l	ug/l							ug/l	

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SAMPLE SUMMARY

Workorder: T07020217 : 3642 - SPEEDWAY STATION

Project Number: 08.75116.0340

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
T07020217001	Duplicate	Water		2/21/2007 00:00	2/23/2007 11:26
T07020217002	TRIP BLANK	Water		2/21/2007 00:00	2/23/2007 11:26
T07020217003	MW-3	Water		2/21/2007 11:07	2/23/2007 11:26
T07020217004	MW-2	Water		2/21/2007 11:12	2/23/2007 11:26
T07020217005	MW-6	Water		2/21/2007 11:16	2/23/2007 11:26
T07020217006	MW-10	Water		2/21/2007 11:22	2/23/2007 11:26
T07020217007	MW-9	Water		2/21/2007 11:26	2/23/2007 11:26
T07020217008	MW-8	Water		2/21/2007 11:30	2/23/2007 11:26
T07020217009	MW-5	Water		2/21/2007 11:38	2/23/2007 11:26
T07020217010	MW-4	Water		2/21/2007 11:51	2/23/2007 11:26

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

Lab ID: **T07020217001** Date/Time Received: 2/23/2007 11:26 Matrix: Water

Sample ID: **Duplicate** Date/Time Collected: 2/21/2007 00:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1687 SW-846 5030 on 02/28/2007 00:00 by CASS								
	Analytical Batches:								
	Batch: 1688 SW-846 8260B on 02/28/2007 17:04 by CASS								
Benzene	ND	ug/l		2.0	2.0	5	1687	1688	
Ethylbenzene	ND	ug/l		5.0	2.0	5	1687	1688	
Methyl Tert-Butyl Ether (MTBE)	1220	ug/l		5.0	1.5	5	1687	1688	
Toluene	ND	ug/l		5.0	2.0	5	1687	1688	
o-Xylene	ND	ug/l		5.0	1.5	5	1687	1688	
m-Xylene & p-Xylene	ND	ug/l		5.0	4.5	5	1687	1688	
Toluene d8 (S)	125	%		61-138		5	1687	1688	
4-Bromofluorobenzene (S)	119	%		65-137		5	1687	1688	
1,2-Dichloroethane-d4 (S)	119	%		49-138		5	1687	1688	
Preservation pH	<2					5	1687	1688	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION | Project Number: 08.75116.0340

Lab ID: **T07020217002** | Date/Time Received: 2/23/2007 11:26 | Matrix: Water

Sample ID: **TRIP BLANK** | Date/Time Collected: 2/21/2007 00:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1681 SW-846 5030 on 02/27/2007 13:16 by CASS								
	Analytical Batches:								
	Batch: 1682 SW-846 8260B on 02/27/2007 20:28 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	1681	1682	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1681	1682	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1681	1682	
Toluene	ND	ug/l		1.0	0.40	1	1681	1682	
o-Xylene	ND	ug/l		1.0	0.30	1	1681	1682	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1681	1682	
Toluene d8 (S)	107	%		61-138		1	1681	1682	
4-Bromofluorobenzene (S)	101	%		65-137		1	1681	1682	
1,2-Dichloroethane-d4 (S)	92	%		49-138		1	1681	1682	
Preservation pH	<2					1	1681	1682	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION

Project Number: 08.75116.0340

Lab ID: **T07020217003**
Sample ID: **MW-3**

Date/Time Received: 2/23/2007 11:26
Date/Time Collected: 2/21/2007 11:07

Matrix: Water

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B		Preparation Batches:							
		Batch: 1679 SW-846 5030 on 02/27/2007 13:12 by CASS							
		Analytical Batches:							
		Batch: 1680 SW-846 8260B on 02/27/2007 20:44 by CASS							
Benzene	ND	ug/l		1.0	0.40	1	1679	1680	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1679	1680	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1679	1680	
Toluene	ND	ug/l		1.0	0.40	1	1679	1680	
o-Xylene	ND	ug/l		1.0	0.30	1	1679	1680	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1679	1680	
Toluene d8 (S)	127	%		61-138		1	1679	1680	
4-Bromofluorobenzene (S)	117	%		65-137		1	1679	1680	
1,2-Dichloroethane-d4 (S)	110	%		49-138		1	1679	1680	
Preservation pH	<2					1	1679	1680	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

Lab ID: **T07020217004** Date/Time Received: 2/23/2007 11:26 Matrix: Water
Sample ID: **MW-2** Date/Time Collected: 2/21/2007 11:12

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1681 SW-846 5030 on 02/27/2007 13:16 by CASS								
	Analytical Batches:								
	Batch: 1682 SW-846 8260B on 02/27/2007 19:56 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	1681	1682	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1681	1682	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1681	1682	
Toluene	ND	ug/l		1.0	0.40	1	1681	1682	
o-Xylene	ND	ug/l		1.0	0.30	1	1681	1682	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1681	1682	
Toluene d8 (S)	107	%		61-138		1	1681	1682	
4-Bromofluorobenzene (S)	100	%		65-137		1	1681	1682	
1,2-Dichloroethane-d4 (S)	93	%		49-138		1	1681	1682	
Preservation pH	<2					1	1681	1682	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION | Project Number: 08.75116.0340

Lab ID: **T07020217005** | Date/Time Received: 2/23/2007 11:26 | Matrix: Water

Sample ID: **MW-6** | Date/Time Collected: 2/21/2007 11:16

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1679 SW-846 5030 on 02/27/2007 13:12 by CASS								
	Analytical Batches:								
	Batch: 1680 SW-846 8260B on 02/27/2007 20:12 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	1679	1680	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1679	1680	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1679	1680	
Toluene	ND	ug/l		1.0	0.40	1	1679	1680	
o-Xylene	ND	ug/l		1.0	0.30	1	1679	1680	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1679	1680	
Toluene d8 (S)	126	%		61-138		1	1679	1680	
4-Bromofluorobenzene (S)	116	%		65-137		1	1679	1680	
1,2-Dichloroethane-d4 (S)	108	%		49-138		1	1679	1680	
Preservation pH	<2					1	1679	1680	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION | Project Number: 08.75116.0340

Lab ID: **T07020217006** | Date/Time Received: 2/23/2007 11:26 | Matrix: Water

Sample ID: **MW-10** | Date/Time Collected: 2/21/2007 11:22

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1689 SW-846 5030 on 02/28/2007 00:00 by CASS								
	Analytical Batches:								
	Batch: 1690 SW-846 8260B on 02/28/2007 18:24 by CASS								
Benzene	103	ug/l		1.0	0.40	1	1689	1690	
Ethylbenzene	4.1	ug/l		1.0	0.40	1	1689	1690	
Methyl Tert-Butyl Ether (MTBE)	23	ug/l		5.0	0.30	1	1689	1690	
Toluene	ND	ug/l		1.0	0.40	1	1689	1690	
o-Xylene	2.5	ug/l		1.0	0.30	1	1689	1690	
m-Xylene & p-Xylene	6.6	ug/l		2.0	0.90	1	1689	1690	
Toluene d8 (S)	108	%		61-138		1	1689	1690	
4-Bromofluorobenzene (S)	103	%		65-137		1	1689	1690	
1,2-Dichloroethane-d4 (S)	106	%		49-138		1	1689	1690	
Preservation pH	<2					1	1689	1690	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

Lab ID: **T07020217007** Date/Time Received: 2/23/2007 11:26 Matrix: Water
Sample ID: **MW-9** Date/Time Collected: 2/21/2007 11:26

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1681 SW-846 5030 on 02/27/2007 13:16 by CASS								
	Analytical Batches:								
	Batch: 1682 SW-846 8260B on 02/27/2007 21:00 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	1681	1682	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1681	1682	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1681	1682	
Toluene	ND	ug/l		1.0	0.40	1	1681	1682	
o-Xylene	ND	ug/l		1.0	0.30	1	1681	1682	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1681	1682	
Toluene d8 (S)	108	%		61-138		1	1681	1682	
4-Bromofluorobenzene (S)	102	%		65-137		1	1681	1682	
1,2-Dichloroethane-d4 (S)	94	%		49-138		1	1681	1682	
Preservation pH	<2					1	1681	1682	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

Lab ID: **T07020217008** Date/Time Received: 2/23/2007 11:26 Matrix: Water
Sample ID: **MW-8** Date/Time Collected: 2/21/2007 11:30

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1679 SW-846 5030 on 02/27/2007 13:12 by CASS								
	Analytical Batches:								
	Batch: 1680 SW-846 8260B on 02/27/2007 21:16 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	1679	1680	
Ethylbenzene	ND	ug/l		1.0	0.40	1	1679	1680	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	1679	1680	
Toluene	ND	ug/l		1.0	0.40	1	1679	1680	
o-Xylene	ND	ug/l		1.0	0.30	1	1679	1680	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	1679	1680	
Toluene d8 (S)	127	%		61-138		1	1679	1680	
4-Bromofluorobenzene (S)	118	%		65-137		1	1679	1680	
1,2-Dichloroethane-d4 (S)	111	%		49-138		1	1679	1680	
Preservation pH	<2					1	1679	1680	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION | Project Number: 08.75116.0340

Lab ID: **T07020217009** | Date/Time Received: 2/23/2007 11:26 | Matrix: Water

Sample ID: **MW-5** | Date/Time Collected: 2/21/2007 11:38

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1689 SW-846 5030 on 02/28/2007 00:00 by CASS								
	Analytical Batches:								
	Batch: 1690 SW-846 8260B on 02/28/2007 17:20 by CASS								
Benzene	ND	ug/l		2.0	2.0	5	1689	1690	
Ethylbenzene	ND	ug/l		5.0	2.0	5	1689	1690	
Methyl Tert-Butyl Ether (MTBE)	1190	ug/l		5.0	1.5	5	1689	1690	
Toluene	ND	ug/l		5.0	2.0	5	1689	1690	
o-Xylene	ND	ug/l		5.0	1.5	5	1689	1690	
m-Xylene & p-Xylene	ND	ug/l		5.0	4.5	5	1689	1690	
Toluene d8 (S)	108	%		61-138		5	1689	1690	
4-Bromofluorobenzene (S)	102	%		65-137		5	1689	1690	
1,2-Dichloroethane-d4 (S)	102	%		49-138		5	1689	1690	
Preservation pH	<2					5	1689	1690	

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ANALYTICAL RESULTS

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

Lab ID: **T07020217010** Date/Time Received: 2/23/2007 11:26 Matrix: Water
Sample ID: **MW-4** Date/Time Collected: 2/21/2007 11:51

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 1689 SW-846 5030 on 02/28/2007 00:00 by CASS								
	Analytical Batches:								
	Batch: 1690 SW-846 8260B on 02/28/2007 18:57 by CASS								
Benzene	1720	ug/l		4.0	4.0	10	1689	1690	
Ethylbenzene	2030	ug/l		10	4.0	10	1689	1690	
Methyl Tert-Butyl Ether (MTBE)	2290	ug/l		10	3.0	10	1689	1690	
Toluene	35	ug/l		10	4.0	10	1689	1690	
o-Xylene	131	ug/l		10	3.0	10	1689	1690	
m-Xylene & p-Xylene	7220	ug/l		10	9.0	10	1689	1690	
Toluene d8 (S)	106	%		61-138		10	1689	1690	
4-Bromofluorobenzene (S)	102	%		65-137		10	1689	1690	
1,2-Dichloroethane-d4 (S)	98	%		49-138		10	1689	1690	
Preservation pH	<2					10	1689	1690	

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QUALITY CONTROL DATA

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

QC Batch: MSV/1679 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 Preparation: 02/27/2007 13:12 by CASS

Associated Lab Samples: T07020178001 T07020214002 T07020214003 T07020214005 T07020214006 T07020214007 T07020214012 T07020214016 T07020214020 T07020217003 T07020217005 T07020217008

METHOD BLANK: 16329

Analysis Date/Time Analyst: 02/27/2007 13:46 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
Preservation pH		ND		
1,2-Dichloroethane-d4 (S)	%	110	49-138	
Toluene d8 (S)	%	129	61-138	
4-Bromofluorobenzene (S)	%	117	65-137	

LABORATORY CONTROL SAMPLE: 16330

Analysis Date/Time Analyst: 02/27/2007 11:18 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	46	92	70-130	
Benzene	ug/l	50	45	90	67-124	
1,2-Dichloroethane-d4 (S)	%			108	49-138	
Toluene d8 (S)	%			125	61-138	
4-Bromofluorobenzene (S)	%			116	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16331 16332 Original: T07020214005

MS Analysis Date/Time Analyst: 02/27/2007 12:10 CASS

MSD Analysis Date/Time Analyst: 02/27/2007 12:43 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	1.8	50	39	42	74	81	73-115	9	57	
Benzene	ug/l	0.13	50	48	39	97	79	61-125	20	32	
1,2-Dichloroethane-d4 (S)	%	111				108	107	49-138			
Toluene d8 (S)	%	130				128	132	61-138			
4-Bromofluorobenzene (S)	%	118				114	118	65-137			

SPL Inc.
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QUALITY CONTROL DATA

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

QC Batch: MSV/1681 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 Preparation: 02/27/2007 13:16 by CASS

Associated Lab Samples: T07020214001 T07020214004 T07020214008 T07020214009 T07020214011 T07020214013 T07020214014 T07020214017 T07020214018 T07020214019 T07020217002 T07020217004 T07020217007

METHOD BLANK: 16333

Analysis Date/Time Analyst: 02/27/2007 14:03 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
Preservation pH		ND		
1,2-Dichloroethane-d4 (S)	%	93	49-138	
Toluene d8 (S)	%	110	61-138	
4-Bromofluorobenzene (S)	%	100	65-137	

LABORATORY CONTROL SAMPLE: 16334

Analysis Date/Time Analyst: 02/27/2007 11:34 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	47	94	70-130	
Benzene	ug/l	50	45	89	67-124	
1,2-Dichloroethane-d4 (S)	%			92	49-138	
Toluene d8 (S)	%			109	61-138	
4-Bromofluorobenzene (S)	%			101	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16335 16336 Original: T07020214014

MS Analysis Date/Time Analyst: 02/27/2007 12:26 CASS

MSD Analysis Date/Time Analyst: 02/27/2007 12:58 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.56	50	40	41	80	81	73-115	1.2	57	
Benzene	ug/l	0.02	50	38	39	77	77	61-125	0	32	
1,2-Dichloroethane-d4 (S)	%	96				93	92	49-138			
Toluene d8 (S)	%	109				109	110	61-138			
4-Bromofluorobenzene (S)	%	102				99	101	65-137			

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QUALITY CONTROL DATA

Workorder: T07020217 : 3642 - SPEEDWAY STATION — Project Number: 08.75116.0340

QC Batch: MSV/1687 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 02/28/2007 00:00 by CASS

Associated Lab Samples: T07020214015 T07020217001 T07020244003 T07020244005 T07020244006

METHOD BLANK: 16490

Analysis Date/Time Analyst: 02/28/2007 16:32 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
m-Xylene & p-Xylene	ug/l	ND	5.0	
o-Xylene	ug/l	ND	5.0	
Benzene	ug/l	ND	5.0	
Preservation pH		ND		
1,2-Dichloroethane-d4 (S)	%	115	49-138	
Toluene d8 (S)	%	128	61-138	
4-Bromofluorobenzene (S)	%	118	65-137	

LABORATORY CONTROL SAMPLE: 16491

Analysis Date/Time Analyst: 02/28/2007 14:23 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	46	91	70-130	
Benzene	ug/l	50	44	88	67-124	
1,2-Dichloroethane-d4 (S)	%			112	49-138	
Toluene d8 (S)	%			123	61-138	
4-Bromofluorobenzene (S)	%			115	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16492 16493 Original: T07020242005

MS Analysis Date/Time Analyst: 02/28/2007 14:55 CASS

MSD Analysis Date/Time Analyst: 02/28/2007 15:27 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.35	50	39	40	79	79	73-115	0	57	
Benzene	ug/l	0.11	50	38	38	75	75	61-125	0	32	
1,2-Dichloroethane-d4 (S)	%	ND				113	114	49-138			
Toluene d8 (S)	%	ND				124	124	61-138			
4-Bromofluorobenzene (S)	%	ND				117	120	65-137			

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QUALITY CONTROL DATA

Workorder: T07020217 : 3642 - SPEEDWAY STATION Project Number: 08.75116.0340

QC Batch: MSV/1689 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 Preparation: 02/28/2007 00:00 by CASS

Associated Lab Samples: T07020214010 T07020217006 T07020217009 T07020217010 T07020244001 T07020244002 T07020244004

METHOD BLANK: 16494

Analysis Date/Time Analyst: 02/28/2007 16:48 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
m-Xylene & p-Xylene	ug/l	ND	5.0	
o-Xylene	ug/l	ND	5.0	
Benzene	ug/l	ND	5.0	
Preservation pH		ND		
1,2-Dichloroethane-d4 (S)	%	102	49-138	
Toluene d8 (S)	%	107	61-138	
4-Bromofluorobenzene (S)	%	101	65-137	

LABORATORY CONTROL SAMPLE: 16495

Analysis Date/Time Analyst: 02/28/2007 14:39 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	46	92	70-130	
Benzene	ug/l	50	45	89	67-124	
1,2-Dichloroethane-d4 (S)	%			97	49-138	
Toluene d8 (S)	%			110	61-138	
4-Bromofluorobenzene (S)	%			101	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16496 16497 Original: T07020242011

MS Analysis Date/Time Analyst: 02/28/2007 15:11 CASS

MSD Analysis Date/Time Analyst: 02/28/2007 15:43 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.76	50	39	39	78	78	73-115	0	57	
Benzene	ug/l	0.75	50	38	37	75	74	61-125	1.3	32	
1,2-Dichloroethane-d4 (S)	%	ND				95	96	49-138			
Toluene d8 (S)	%	ND				107	107	61-138			
4-Bromofluorobenzene (S)	%	ND				102	102	65-137			

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T07020217 : 3642 - SPEEDWAY STATION | Project Number: 08.75116.0340

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
T07020217003	**MW-3**	SW-846 5030	MSV/1679	SW-846 8260B	MSV/1680
T07020217005	**MW-6**	SW-846 5030	MSV/1679	SW-846 8260B	MSV/1680
T07020217008	**MW-8**	SW-846 5030	MSV/1679	SW-846 8260B	MSV/1680
T07020217002	**TRIP BLANK**	SW-846 5030	MSV/1681	SW-846 8260B	MSV/1682
T07020217004	**MW-2**	SW-846 5030	MSV/1681	SW-846 8260B	MSV/1682
T07020217007	**MW-9**	SW-846 5030	MSV/1681	SW-846 8260B	MSV/1682
T07020217001	**Duplicate**	SW-846 5030	MSV/1687	SW-846 8260B	MSV/1688
T07020217006	**MW-10**	SW-846 5030	MSV/1689	SW-846 8260B	MSV/1690
T07020217009	**MW-5**	SW-846 5030	MSV/1689	SW-846 8260B	MSV/1690
T07020217010	**MW-4**	SW-846 5030	MSV/1689	SW-846 8260B	MSV/1690

Page 1 of 2

T07020217

COC ID # 00010468 T07020217

B-5

Project Information

0003642

ADDRESS	939 Dixie Hwy			LAB	SPL Michigan
CITY	Rossford	STATE	OH	CONSULTANT	ATC ASSOCIATES INC
SSA PROJ MGR	Keith A. Hughes			PROJECT MGR	Travis S. Bukach ***INVOICE TO***
PHONE #	(937)863-7642	FAX #	(937)863-6078	ADDRESS	10020 Brecksville Road Brecksville, Ohio 44141
	DIRECT STATE FAX SITE			PHONE #	440-838-7177 FAX # 440-838-7181
CODE	20 - Site Investigation-Operational/Non-Operational Facility			SAMPLER:	Derek Egli
TYPE	L - Analytical			SHIPPED VIA	FedExp
				TRACKING #	

TURN AROUND TIME
STANDARD

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
Duplicate	02/21/2007 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	
TRIP BLANK	02/21/2007 12:00am	W	1	VOA	HCL	BTEX/MTBE 8260B	
MW-3	02/21/2007 11:07am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-2	02/21/2007 11:12am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-6	02/21/2007 11:16am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-10	02/21/2007 11:22am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-9	02/21/2007 11:26am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-8	02/21/2007 11:30am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-5	02/21/2007 11:38am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-4	02/21/2007 11:51am	W	2	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by: [signature]	Date 2/22/07 Time 14:00	Received by	Date Time
Relinquished by FedEx	Date 2.23.07 Time 10:00	Received by laboratory TMM/SPL	Date 2.23.07 Time 16:00
Special Reporting Requirements Job# 08 75116 0340 PO# 07-08-0012		Lab Notes	Temp 3.8

ChemWare

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

10020 Brecksville Road
Brecksville, OH 44141-3219
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440-838-7177
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GROUNDWATER SAMPLING REPORT

(Second Event)

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Keith A. Hughes
Advanced Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0057

Nathan Saraceno
Staff Geologist

Travis Bukach
Project Manager

1 November 2005

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**0.24**	**112**	**131**	**1500**	**0.89**
MW-7 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-7 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**0.24**	**112**	**131**	**1500**	**NA**
D-3 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-1 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-1 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-2 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-1 (4)	L-1 (4)	07/09/1997	00:00	**1.700**	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**0.24**	**112**	**131**	**1500**	**0.89**
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-2 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-2 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-3 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-2 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-2 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-3 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-3 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-4 (7-9)	MW-4 (7-9)	03/07/2002	00:00	**0.400**	0.017	0.140	0.142	0.350
MW-4 (9-11)	MW-4 (9-11)	03/07/2002	00:00	**0.360**	0.021	0.059	0.137	0.210
MW-5 (13-15)	MW-5 (13-15)	03/07/2002	00:00	**1.000**	1.000	2.000	18.700	0.460
MW-5 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-5 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-5 (7-9)	MW-5 (7-9)	03/07/2002	00:00	**0.400**	4.600	8.300	68.000	0.200
MW-5 (9-11)	MW-5 (9-11)	03/07/2002	00:00	**1.300**	7.500	11.000	84.000	< 0.050
MW-6 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-6 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-2 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-2 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-3 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
D-3 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	380.000	mg/Kg
ES-1 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
ES-1 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
ES-2 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	NA	260.000	mg/Kg
L-1 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	1000.000	mg/Kg
MW-3 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-3 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-7 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-7 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	NA	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - On Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-1								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-2								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4								MW-4	04/11/2002	00:00	**3100.000**	69.000	**2100.000**	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	**120.000**	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	**3600.000**	60.000	**2300.000**	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	**2600.000**	56.000	**1800.000**	7870.000	**850.000**
								MW-4	03/24/2004	05:54	**3000.000**	78.000	**2200.000**	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	**5300.000**	< 100.000	**3600.000**	**15000.000**	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	**4200.000**	< 100.000	**4100.000**	**16000.000**	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	**3700.000**	< 100.000	**2600.000**	**12000.000**	**2600.000**
MW-5								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-5								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
MW-6								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-7								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

FIGURES

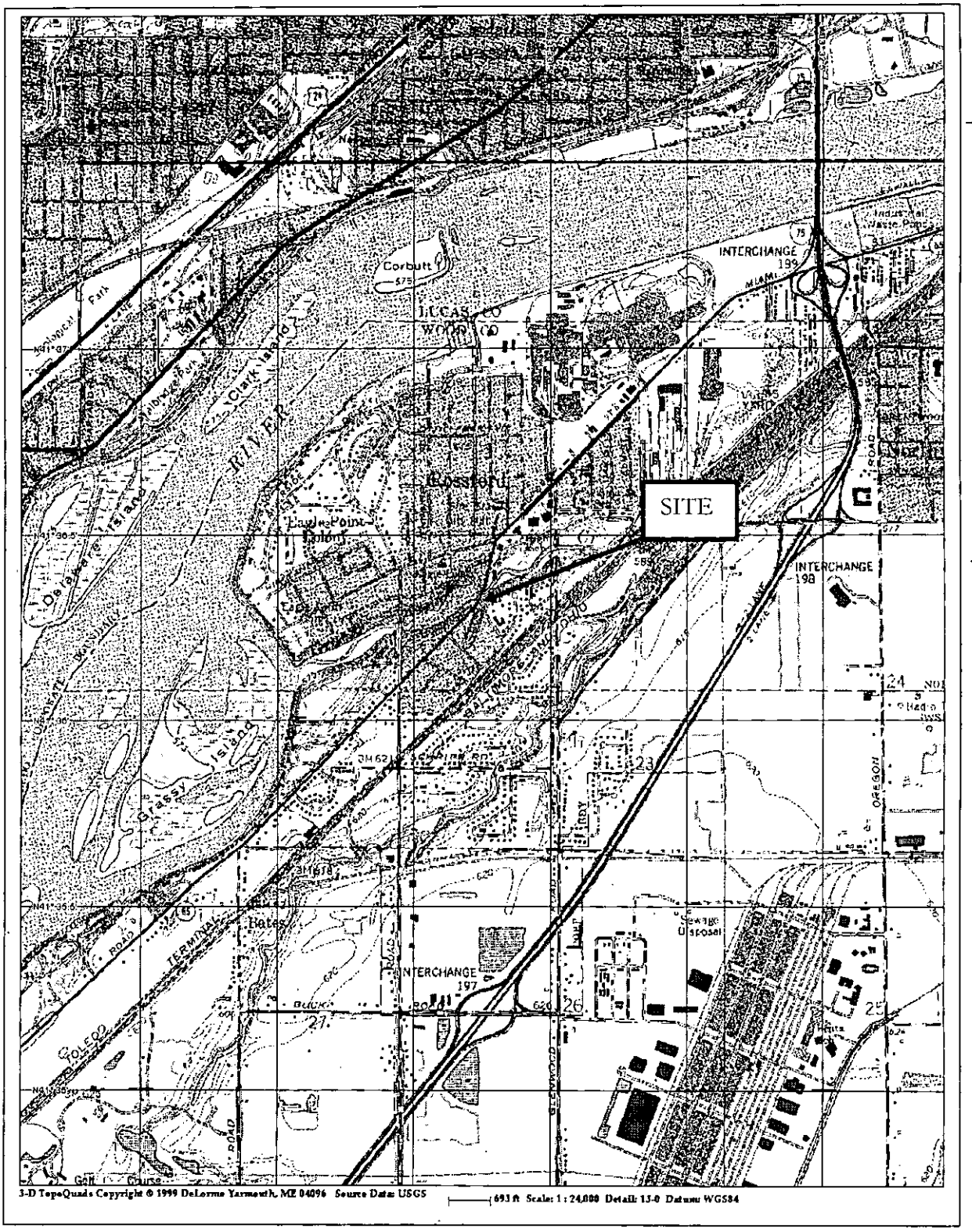
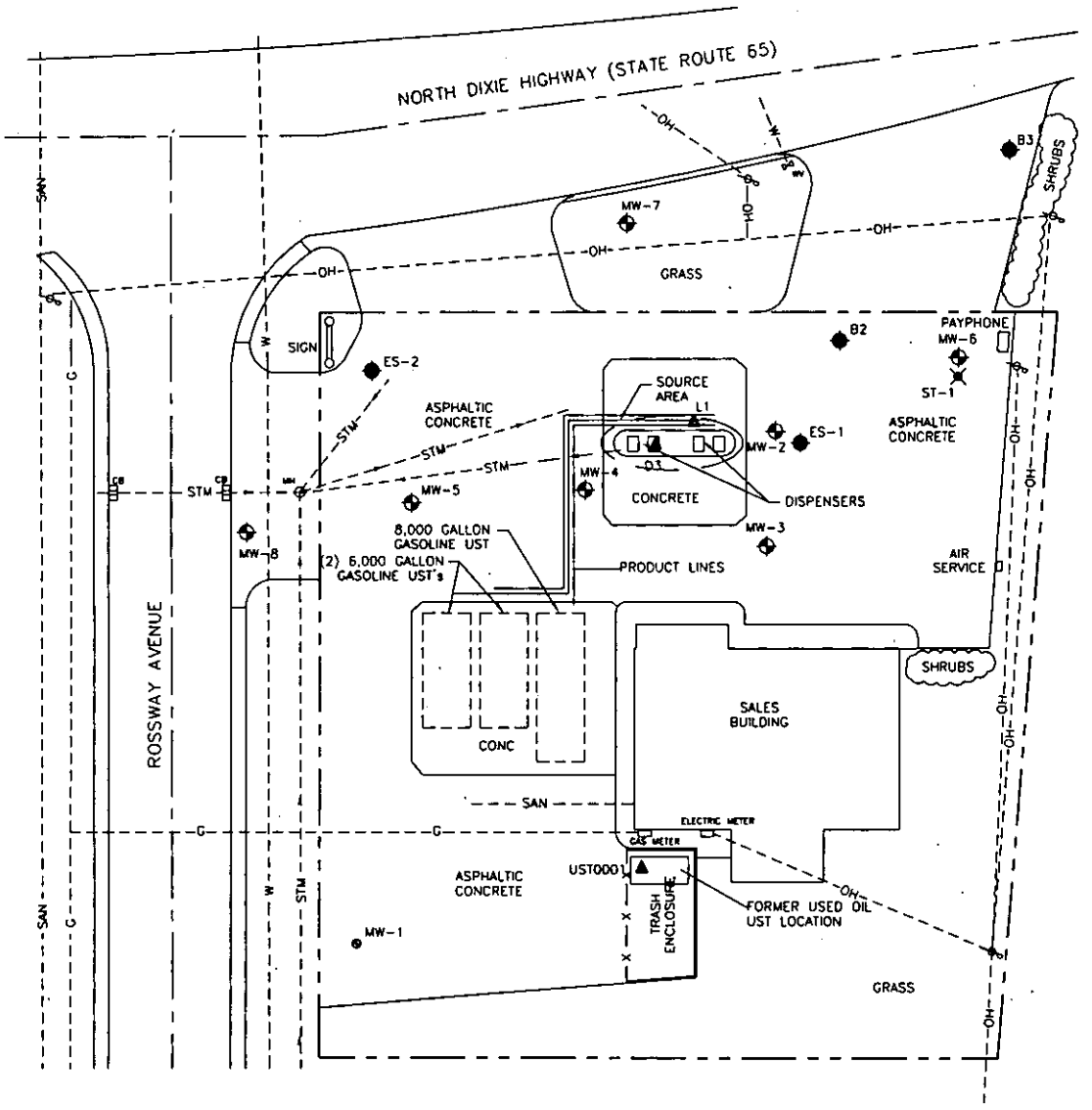


FIGURE 1: SITE VICINITY MAP

SOURCE: USGS 7.5-Minute Topographic Map Springfield Quadrangle 1988 Scale: 1:24,000	ATC ASSOCIATES INC.	**Speedway SuperAmerica LLC** SSA #3642 939 Dixie Highway Rossford, Wood County, Ohio ATC Project No. 08.75116.0057



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30

SCALE IN FEET

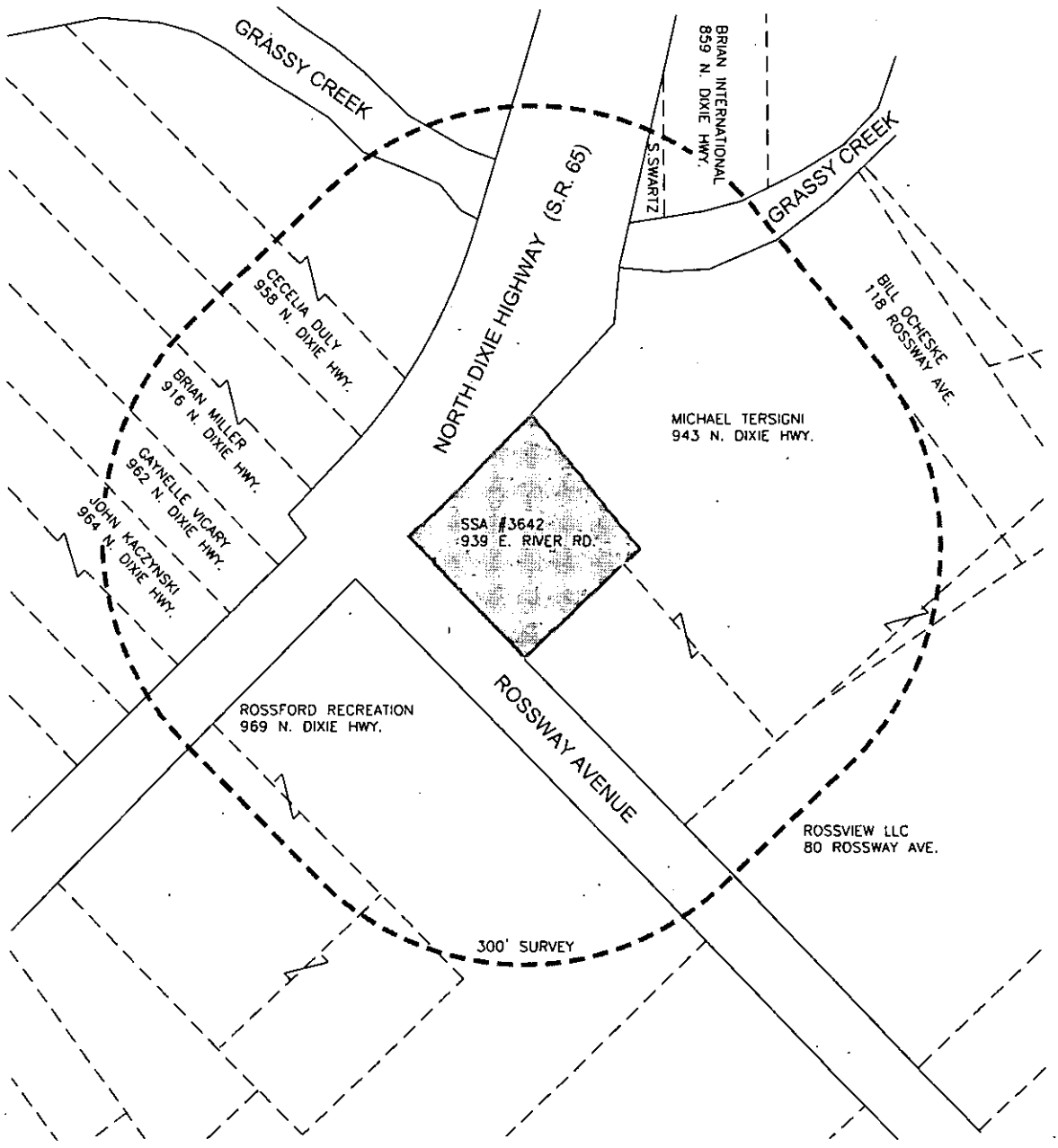
C:\DRAWINGS\SPEEDWAY\3642\SM.DWG

SITE MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057	DATE: 07/29/05
SCALE: 1" = 30'	DRAWN BY: R. Saunders
FIGURE 2	REVIEWED BY: N. Saroceno

ATC ASSOCIATES INC.



SURROUNDING PROPERTIES MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057

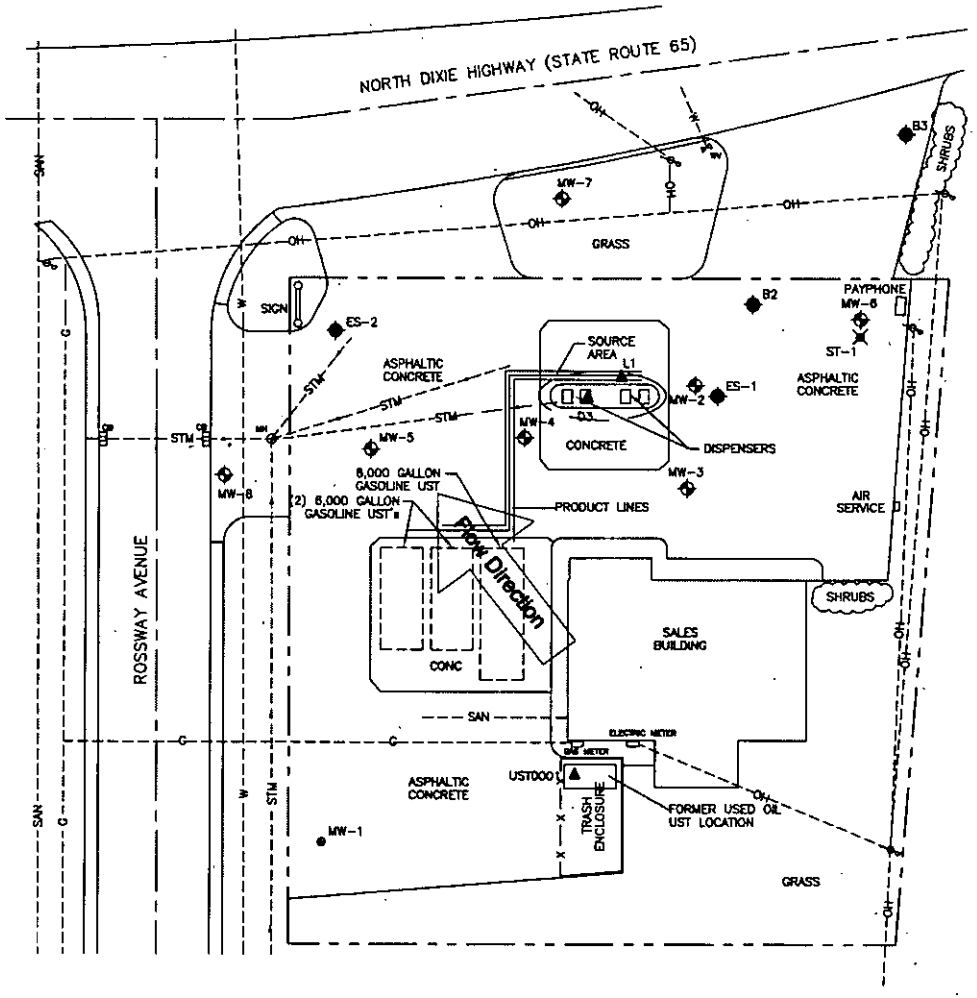
FIGURE 1

ATC ASSOCIATES INC.

Flow Direction Parameters - 09/19/2005

Sample Location	Description	Elevation	Longitude	Latitude
MW-4	NORTHWEST OF BUILDING	91.23	-83.5624890	41.6051470
MW-5	WEST SIDE OF PROPERTY	88.91	-83.5625560	41.6051120
MW-7	NORTH OF PROPERTY	87.28	-83.5626500	41.6051790

North Arrow Angle of Rotation from 0° North: 0°
Flow Direction: 251° (from 0° North)
Flow Gradient: 0.106987 ft/foot



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30
SCALE IN FEET

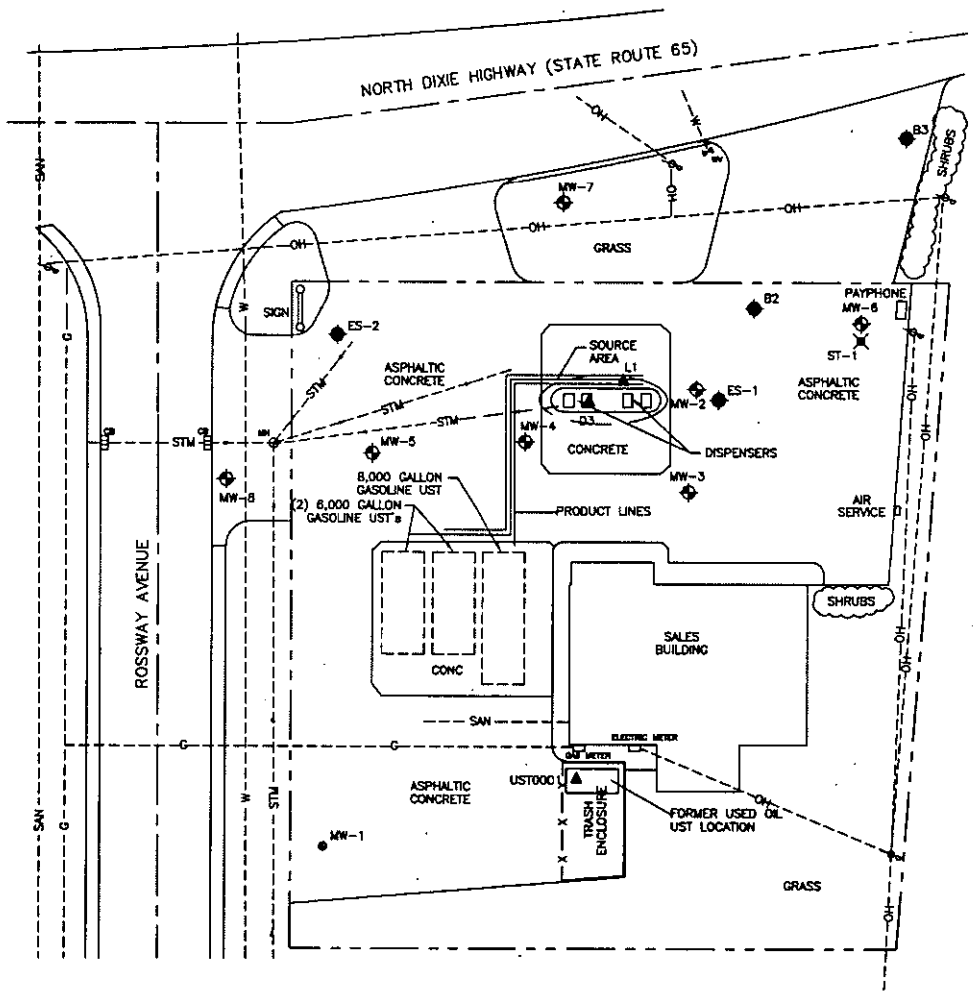
BTEX/MTBE
Groundwater Flow Analytical Map

Map by SSA-EIMS - Friday, October 28, 2005

Speedway SuperAmerica LLC
Store #***3642***
939 Dixie Hwy
Rossford,OH 43460-1332

Concentrations in PPM

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		0.240	112.000	131.000	1500.000	0.890
MW-7 (11-13)	12/19/02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-7 (7-9)	12/19/02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels		0.240	112.000	131.000	1500.000	0.890
MW-8 (11-13)	12/19/02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (3-5)	12/19/02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

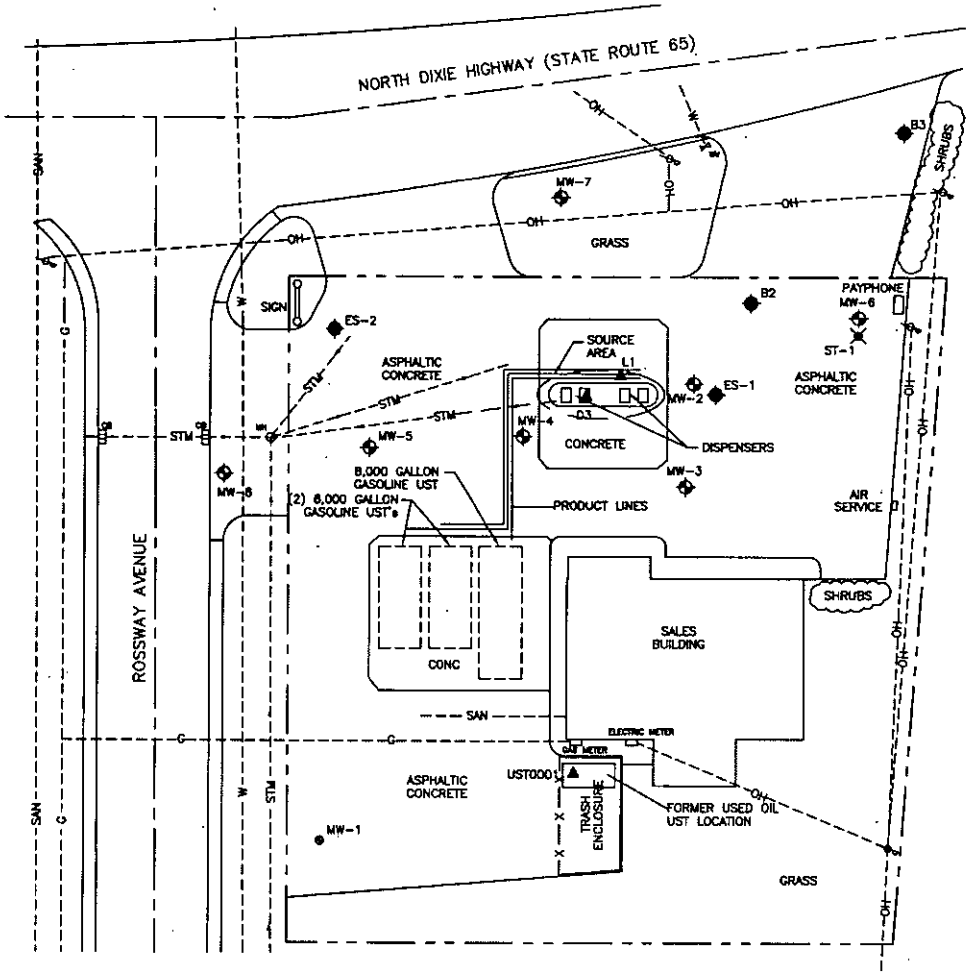
30 15 0 30

SCALE IN FEET

BTEX/MTBE
Soil Analytical Map

Map by SSA-EIMS - Friday, October 28, 2005

Speedway SuperAmerica LLC
Store #**3642**
939 Dixie Hwy
Rossford, OH 43460-1332



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30

SCALE IN FEET

Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-7	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	7.000
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-1	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-2	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4	09/19/05	**3700.000**	< 100.000	**2600.000**	**12000.000**	**2600.000**
MW-5	09/19/05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
MW-6	09/19/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-EIMS - Friday, October 28, 2005

Speedway SuperAmerica LLC
Store #**3642**
939 Dixie Hwy
Rossford,OH 43460-1332

APPENDIX A

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

LABORATORY REPORT

SPL WORKORDER NUMBER(s): **05-09-493**

Prepared for: **SPEEDWAY SUPERAMERICA LLC.**

Sampled By: ATC ASSOCIATES, INC.

Site: 939 DIXIE HWY, ROSSFORD, OH

Project: 3642 - SPEEDWAY STATION

Approved by:

S. L. Grenda, Laboratory Manager Date: _____

Gary R. Byar, Project Manager

The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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500 Ambassador Caffery Parkway
Scott, LA 70583
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Tony Duhon

SPL - Michigan
459 Hughes Drive
Traverse City, MI 49686
(231) 947-5777

Summary Report 09-29-2005

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD, OH
Project No.: 08.75116.0057
Project: 3642 - SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0509493-01 WATER	TRIP BLANK 08/03/2005 12:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-02 WATER	MW-6 09/19/2005 13:10:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-03 WATER	MW-7 09/19/2005 13:14:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-04 WATER	MW-2 09/19/2005 13:19:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-05 WATER	MW-3 09/19/2005 13:22:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-06 WATER	MW-1 09/19/2005 14:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-07 WATER	MW-8 09/19/2005 14:03:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								7.0 5 ug/L
0509493-08 WATER	MW-5 09/19/2005 14:05:00	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L								1700 30 ug/L
0509493-09 WATER	MW-4 09/19/2005 14:09:00	3700 100 ug/L	ND 100 ug/L	2600 100 ug/L	12000 100 ug/L								2600 300 ug/L
0509493-10 WATER	Duplicate 09/19/2005 14:10:00	3700 100 ug/L	ND 100 ug/L	2900 100 ug/L	13000 100 ug/L								2300 300 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

MICHIGAN LABORATORY
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459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: TRIP BLANK

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 08/03/2005 12:00:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	91

Method 8021B ***
Analyzed by: JMG
Date: 09/24/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-6

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:10:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	89

Method 8021B ***
Analyzed by: JMG
Date: 09/26/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-7

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:14:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	89

Method 8021B ***
Analyzed by: JMG
Date: 09/26/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-2

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:19:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	90

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-05

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-3

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:22:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	93

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-06

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-1

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:00:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	93

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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TRAVERSE CITY, MICHIGAN 49686
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FAX (231) 947-7455
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Certificate of Analysis No. M1-0509493-07

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-8

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:03:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	7.0	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	101
4-Bromofluorobenzene	94

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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TRAVERSE CITY, MICHIGAN 49686
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Certificate of Analysis No. M1-0509493-08

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-5

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:05:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1700	30 P	ug/L
BENZENE	ND	10 P	ug/L
TOLUENE	ND	10 P	ug/L
ETHYLBENZENE	ND	10 P	ug/L
TOTAL XYLENE	ND	10 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	108
4-Bromofluorobenzene	97

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
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FAX (231) 947-7455
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Certificate of Analysis No. M1-0509493-09

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-4

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:09:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2600	300 P	ug/L
BENZENE	3700	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2600	100 P	ug/L
TOTAL XYLENE	12000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	106
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
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FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-10

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: Duplicate

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:10:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2300	300 P	ug/L
BENZENE	3700	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2900	100 P	ug/L
TOTAL XYLENE	13000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	111
4-Bromofluorobenzene	101

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

QUALITY CONTROL DOCUMENTATION

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Water
Units: ug/L

Batch Id: 3333050923030300

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	110	110	81 - 123
Toluene	ND	100	110	110	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	110	110	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	24	120	23	115	4.26	55	19 - 189
BENZENE	ND	20	22	110	22	110	0	26	56 - 160
TOLUENE	ND	20	20	100	21	105	4.88	26	58 - 154
ETHYLBENZENE	ND	20	18	90.0	20	100	10.5	27	47 - 162
O XYLENE	ND	20	19	95.0	20	100	5.13	30	38 - 177
M & P XYLENE	ND	20	20	100	22	110	9.52	27	30 - 188

Analyst: JMG
Sequence Date: 09/23/05
SPL ID of sample spiked: 0509324-03A
Sample File ID: 3I20038.TX0
Method Blank File ID:
Blank Spike File ID: 3I23030.TX0
Matrix Spike File ID: 3I23027.TX0
Matrix Spike Duplicate File ID: 3I23028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: Laboratory historical
(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0509469-04A 0509469-01A 0509461-07A 0509493-01A
0509472-05A 0509472-02A 0509472-01A

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Water
Units: ug/L

Batch Id: 4444050926040300

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	100	100	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	19	95.0	21	105	10.0	55	19 - 189
BENZENE	ND	20	20	100	25	125	22.2	26	56 - 160
TOLUENE	ND	20	18	90.0	22	110	20.0	26	58 - 154
ETHYLBENZENE	ND	20	19	95.0	22	110	14.6	27	47 - 162
O XYLENE	ND	20	18	90.0	21	105	15.4	30	38 - 177
M & P XYLENE	ND	20	20	100	23	115	14.0	27	30 - 188

Analyst: JMG
Sequence Date: 09/26/05
SPL ID of sample spiked: 0509459-12A
Sample File ID: 4I23047.TX0
Method Blank File ID:
Blank Spike File ID: 4I26030.TX0
Matrix Spike File ID: 4I26027.TX0
Matrix Spike Duplicate File ID: 4I26028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5>)| / [(<4> + <5>) x 0.5] x 100
(**) = Source: Laboratory historical
(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0509493-05A 0509493-06A 0509493-07A 0509493-09A
0509493-10A 0509449-01A 0509449-02A 0509449-03A
0509449-04A 0509449-05A 0509449-06A 0509449-07A
0509449-08A 0509449-09A 0509449-10A 0509449-11A
0509493-02A 0509493-03A 0509493-04A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444050926040300

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	100	100	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	19	95.0	21	105	10.0	55	19 - 189
BENZENE	ND	20	20	100	25	125	22.2	26	56 - 160
TOLUENE	ND	20	18	90.0	22	110	20.0	26	58 - 154
ETHYLBENZENE	ND	20	19	95.0	22	110	14.6	27	47 - 162
O XYLENE	ND	20	18	90.0	21	105	15.4	30	38 - 177
M & P XYLENE	ND	20	20	100	23	115	14.0	27	30 - 188

Analyst: JMG

Sequence Date: 09/26/05

SPL ID of sample spiked: 0509459-12A

Sample File ID: 4I23047.TX0

Method Blank File ID:

Blank Spike File ID: 4I26030.TX0

Matrix Spike File ID: 4I26027.TX0

Matrix Spike Duplicate File ID: 4I26028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0509493-05A 0509493-06A 0509493-07A 0509493-09A
0509493-10A 0509449-01A 0509449-02A 0509449-03A
0509449-04A 0509449-05A 0509449-06A 0509449-07A
0509449-08A 0509449-09A 0509449-10A 0509449-11A
0509493-02A 0509493-03A 0509493-04A

B-4

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00005359

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Keith A. Hughes
PHONE #: (937)863-7642 FAX #: (937)863-6078
DIRECT STATE PAY SITE
CODE: 47 - Ground Water Monitoring/Closure Activities
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: SPL Michigan
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis S. Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville Road
Brecksville, Ohio 44141
PHONE #: 440-838-7177 FAX #: 440-838-7181
SAMPLER: Heather Bennett
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	08/03/2005 12:00pm	W	1	VOA	HCL	BTEX \ MTBE 8021B	
MW-6	09/19/2005 01:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-7	09/19/2005 01:14pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-2	09/19/2005 01:19pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-3	09/19/2005 01:22pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-1	09/19/2005 02:00pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-8	09/19/2005 02:03pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-5	09/19/2005 02:05pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-4	09/19/2005 02:09pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
Duplicate	09/19/2005 02:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Heather M. Bennett	Date 9/20/05	Time 8129	Received by:	Date	Time
Relinquished by: fedex	Date 9-22-05	Time	Received by laboratory: TR	Date 9-22-05	Time 9:30
Special Reporting Requirements: 08.75116.0057 05-08-0223			Lab Notes:	Temp 5.0	

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

GROUNDWATER SAMPLING REPORT
(Second Event)

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Timothy Wilfong
Advanced Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0340

Kathryn Price
Staff Geologist

Travis S. Bukach, P.G.
Project Manager

15 August 2007

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Appendix A Groundwater Analytical Laboratory Report and Chain-of-Custody Records

Appendix B Purge Log – June 6, 2007

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct groundwater sampling activities at SSA Store #3642 located at 939 Dixie Highway in Rossford, Wood County, Ohio (**Figures 1 & 2**). This report summarizes groundwater monitoring and sampling activities conducted at the site on June 7, 2007, in accordance with the site-specific Groundwater Monitoring Plan outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* (December 2006).

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

The Bureau of Underground Storage Tank Regulations (BUSTR) issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern (COCs) are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

3.0 SAMPLING METHODOLOGY AND RESULTS

3.1 Groundwater Monitoring and Sampling

On June 7, 2007, depth to fluid measurements and groundwater samples were collected from monitoring wells MW-1 through MW-3 and MW-5 through MW-10. Monitoring well MW-4 was not sampled due to the presence of measurable free product. Depth to fluid measurements were collected with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**).

Based on the measured groundwater elevations, groundwater movement across the site is to the north-northwest (**Figure 3**). Clean, latex gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination.

Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The bailers were decontaminated after use in each well by scrubbing with an Alconox™ and water solution, rinsing with de-ionized water, followed by a final rinse with de-ionized water. The wells were then allowed to recharge before water samples were collected.

Water samples were collected with dedicated disposable bailers, and divided between two laboratory-supplied 40-milliliter vials. A trip blank and duplicate samples (MW-5) were also submitted. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan, and analyzed for BTEX and MTBE by United States Environmental Protection Agency (U.S. EPA) Method 8260B. The results of the laboratory analyses have been summarized in **Tables 3 and 4** and are illustrated on **Figure 2**. The complete laboratory report has been included in **Appendix A**.

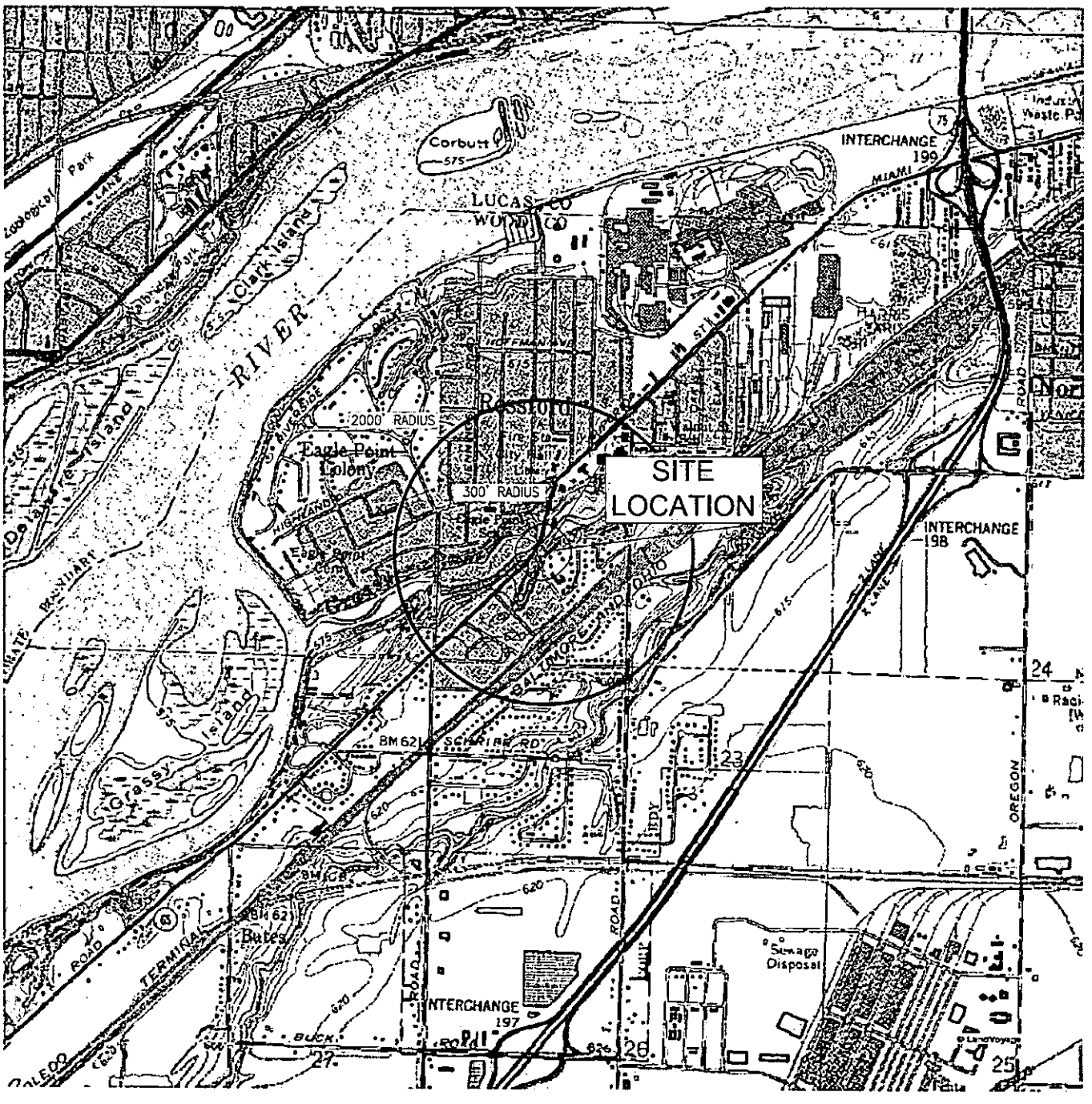
3.2 Analytical Results

The laboratory analytical results for groundwater samples collected on June 7, 2007 indicate MTBE concentrations in monitoring well MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs) and/or Tier 1 action levels. Additionally, monitoring well MW-10 exhibited MTBE concentrations above Tier 2 SSTLs/Tier 1 Action levels. All other chemicals of concern concentrations were below action levels in all of the wells.

Historical soil analytical results have been included as **Tables 1 and 2,** and historical groundwater in **Tables 3 & 4** for reference.

4.0 CONCLUSIONS

This completes the second of four quarterly groundwater sampling events outlined in the Tier 3 Plan with Monitoring Plan from the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* submitted in December 2006. Two additional Groundwater Sampling Reports will be completed, with the final groundwater sampling event summarized with all previously collected data in a Tier 3 Evaluation Report.



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map: Rossford, OH Quadrangle 1980; Scale: 1:24,000

N

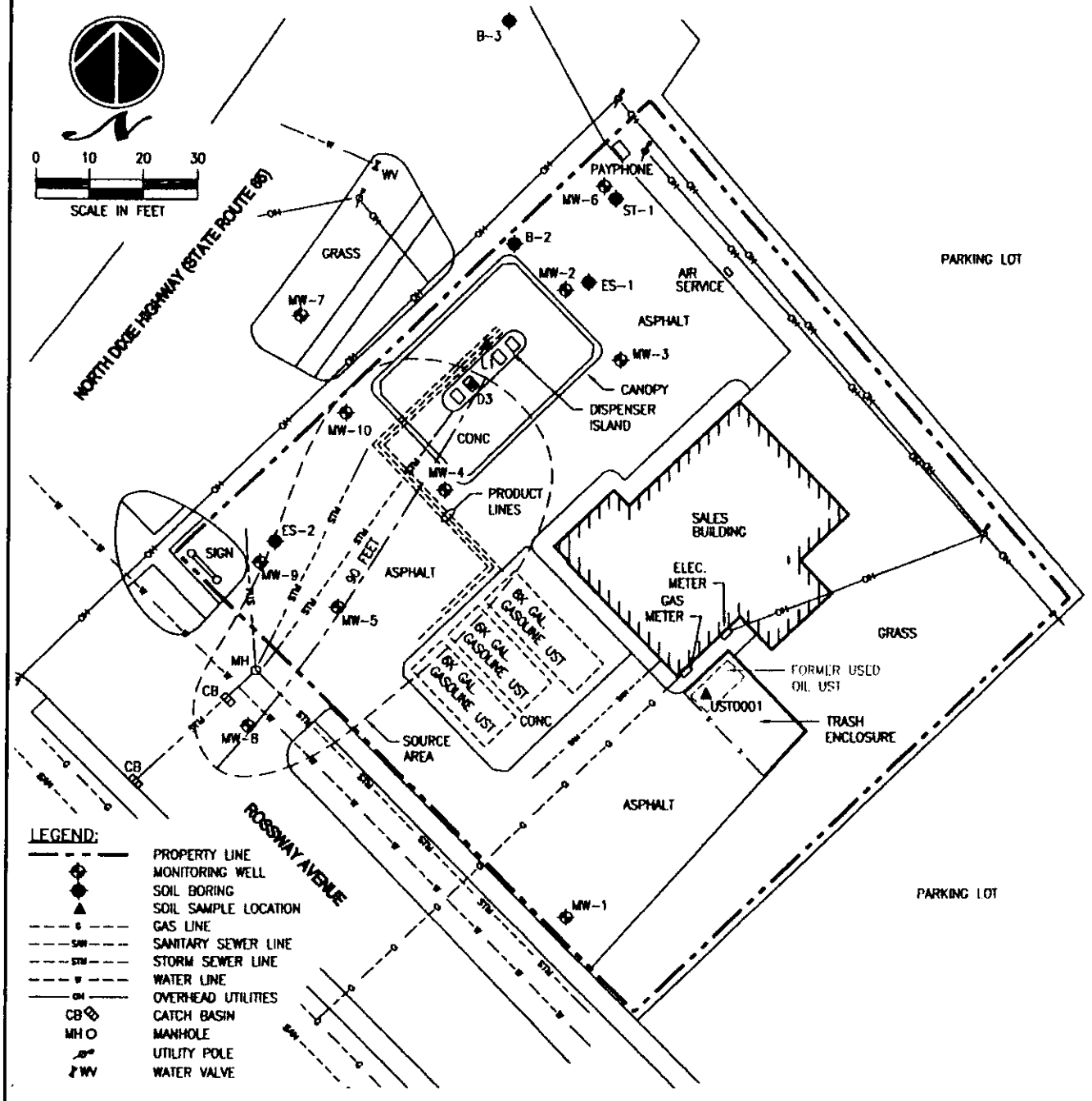
VATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...SSA3642-SLM.DWG 11/10/06



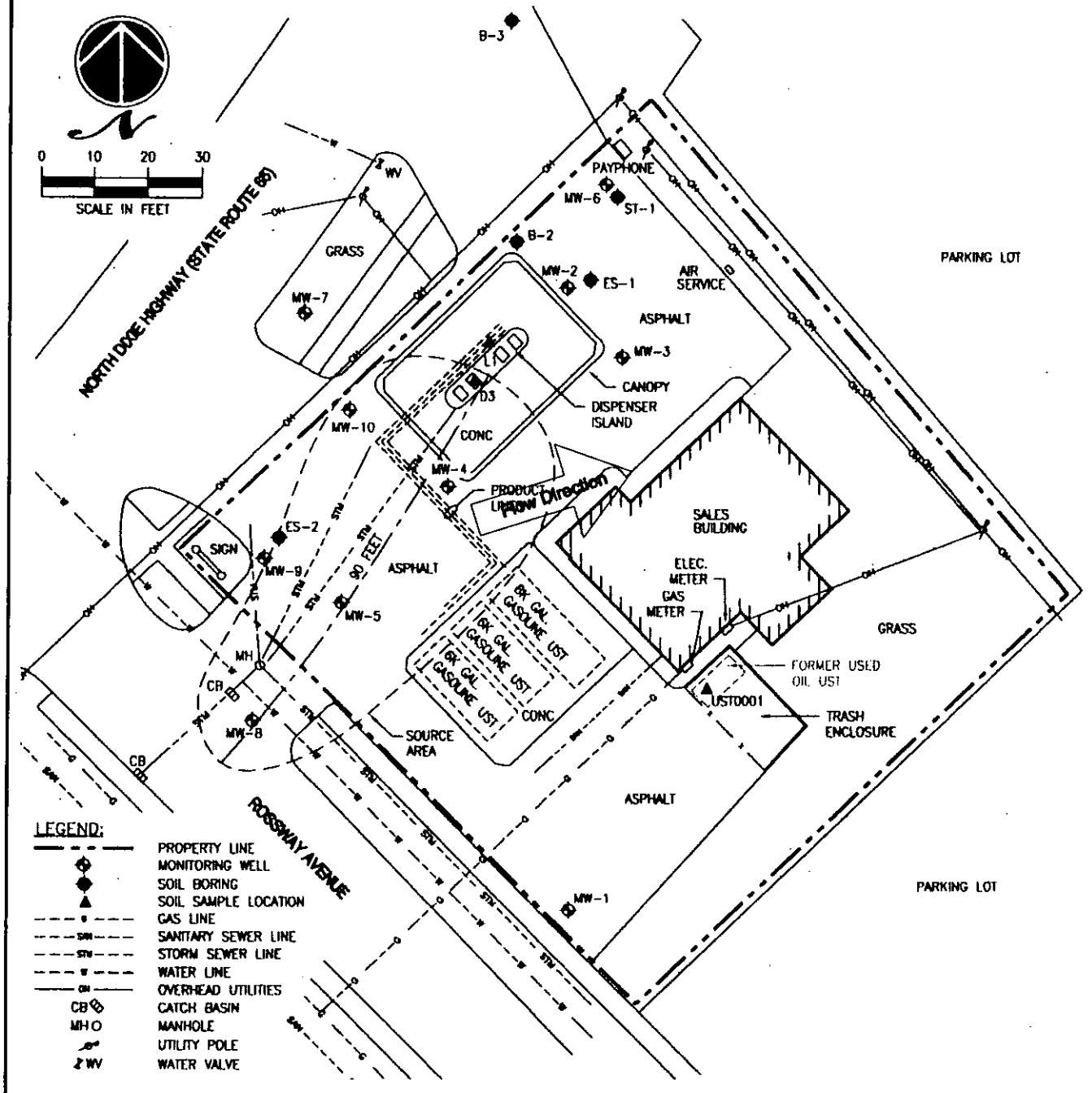
Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-07	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-08	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels		5.000	1000.000	700.000	10000.000	40.000
TRIP BLANK	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels		10000.000	1000.000	10000.000	100000.000	40.000
MW-01	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-01	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-02	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-03	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-03	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-05	06/07/07	< 2.000	< 5.000	< 5.000	< 5.000	**1060.000**
MW-06	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-09	06/07/07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-10	06/07/07	277.000	< 5.000	19.000	15.000	**66.000**

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-EIMS - Friday, July 20, 2007

Speedway SuperAmerica LLC
Store #***3642***
939 Dixie Hwy
Rossford,OH 43460-1332



Flow Direction Parameters - 06/07/2007

Sample Location	Description	Elevation	Longitude	Latitude
MW-01	SOUTHWEST CORNER OF PROPERTY	89	-83.5624990	41.6049770
MW-06	NORTHEAST CORNER OF PROPERTY	77.7	-83.5623930	41.6053110
MW-09	Southwest corner of site	90.33	-83.5625900	41.6051070

North Arrow Angle of Rotation from 0° North: 0°

Flow Direction: 73° (from 0° North)

Flow Gradient: 0.167654 ft/foot

Other Wells

MW-02	NORTH OF BUILDING	73.92	-83.5623970	41.6052860
MW-03	NORTH OF BUILDING	74.63	-83.5623970	41.6052420
MW-04	NORTHWEST OF BUILDING	92.34	-83.5624890	41.6051470
MW-05	WEST SIDE OF PROPERTY	89.16	-83.5625560	41.6051120
MW-07	NORTH OF PROPERTY	87.81	-83.5626500	41.6051790
MW-08	WEST OF PROPERTY	87.58	-83.5626030	41.6050630
MW-10	Near dispensor island	85.73	-83.5626230	41.6051510

BTEX/MTBE
Groundwater Flow Analytical Map

Map by SSA-EIMS - Wednesday, August 01, 2007

Speedway SuperAmerica LLC
Store #***3642***
939 Dixie Hwy
Rossford,OH 43460-1332

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.025	< 0.100	0.840	5.100	< 0.250

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	02/21/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								TRIP BLANK	06/07/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								MW-01	06/07/2007	12:30	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
	06/14/2007	00:00	100.8	89	11.8										
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-02	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								MW-03	06/07/2007	12:40	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-05								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75			MW-05	06/07/2007	12:10	< 2.000	< 5.000	< 5.000	< 5.000	**1060.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 1.000	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 5.000	19.000	15.000	**66.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 1.000	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 5.000	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 1.000	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 1.000	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 1.000	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 1.000	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 5.000	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 1.000	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 1.000	ug/L

APPENDIX A

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

SPL Inc.
459 Hughes Drive
Traverse City, MI 49686
Phone: (231) 947-5777
Fax: (231) 947-7455

Certificate of Analysis

June 20, 2007

Workorder: T07060206

Travis Bukach
ATC ASSOCIATES, INC.
10020 Brecksville Road
Brecksville, OH 44141

Project: 3642 - SPEEDWAY STATION

Project Number: AFE #N/A, WO #N/A, 20

Site: 939 DIXIE HWY, ROSSFORD, OH

PO Number: 00011414

NELAC Cert. No.: 100407

State: OH

State Cert. No.:

Dear Travis Bukach:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, June 12, 2007.

Results are reported on a wet weight basis unless dry-weight correction is denoted on the analytical report.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria throughout the entire analytical process.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. NELAP issues parameter accreditation. Accreditation information for SPL can be obtained by contacting your Project Manager, the laboratory QA Officer, or on the SPL website at www.spl-inc.com.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples being submitted for testing.

If you have any questions concerning this report, please feel free to contact me. Please reference the above Workorder number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sincerely,

S. L. Grenda, Laboratory Manager

Enclosures

SPL Inc.
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Summary

Company: ATC/SPEEDWAY - Keith Hughes (Funded) - Brecksville
Project No: AFE #N/A, WO #N/A, 20
Site: 3642 - SPEEDWAY STATION - 939 DIXIE HWY, ROSSFORD, OH
Project: Travis Bukach - Funded - OH Site

SPL ID / Matrix	Client ID / Date Sampled	Benzene PQL / Units	Toluene PQL / Units	Ethyl Ben. PQL / Units	Xylenes PQL / Units	TPH-GRO PQL / Units	TPH-DRO PQL / Units	O & G PQL / Units	Lead PQL / Units	Cadmium PQL / Units	Chromium PQL / Units	MTBE PQL / Units	Chlorides PQL / Units
T07060206001	Duplicate	ND	ND	ND	ND							1270	
Water	06/07/2007 00:00	2.0	5.0	5.0	5.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206002	TRIP BLANK	ND	ND	ND	ND							ND	
Water	06/07/2007 00:00	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206003	MW-01	ND	ND	ND	ND							ND	
Water	06/07/2007 10:50	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206004	MW-03	ND	ND	ND	ND							ND	
Water	06/07/2007 11:00	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206005	MW-02	ND	ND	ND	ND							ND	
Water	06/07/2007 11:10	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206006	MW-06	ND	ND	ND	ND							ND	
Water	06/07/2007 11:20	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206007	MW-07	ND	ND	ND	ND							ND	
Water	06/07/2007 11:30	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	

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Summary

Company: ATC/SPEEDWAY - Keith Hughes (Funded) - Brecksville
Project No: AFE #N/A, WO #N/A, 20
Site: 3642 - SPEEDWAY STATION - 939 DIXIE HWY, ROSSFORD, OH
Project: Travis Bukach - Funded - OH Site

SPL ID / Matrix	Client ID / Date Sampled	Benzene PQL / Units	Toluene PQL / Units	Ethyl Ben. PQL / Units	Xylenes PQL / Units	TPH-GRO PQL / Units	TPH-DRO PQL / Units	O & G PQL / Units	Lead PQL / Units	Cadmium PQL / Units	Chromium PQL / Units	MTBE PQL / Units	Chlorides PQL / Units
T07060206008	MW-08	ND	ND	ND	ND							ND	
Water	06/07/2007 11:40	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206009	MW-09	ND	ND	ND	ND							ND	
Water	06/07/2007 11:50	1.0	1.0	1.0	1.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206010	MW-10	277	ND	19	15							66	
Water	06/07/2007 12:00	2.0	5.0	5.0	5.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	
T07060206011	MW-05	ND	ND	ND	ND							1060	
Water	06/07/2007 12:10	2.0	5.0	5.0	5.0							5.0	
		ug/l	ug/l	ug/l	ug/l							ug/l	

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SAMPLE SUMMARY

Workorder: T07060206 : 3642 - SPEEDWAY STATION

Project Number: AFE #N/A, WO #N/A, 20

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
T07060206001	Duplicate	Water		6/7/2007 00:00	6/12/2007 11:27
T07060206002	TRIP BLANK	Water		6/7/2007 00:00	6/12/2007 11:27
T07060206003	MW-01	Water		6/7/2007 10:50	6/12/2007 11:27
T07060206004	MW-03	Water		6/7/2007 11:00	6/12/2007 11:27
T07060206005	MW-02	Water		6/7/2007 11:10	6/12/2007 11:27
T07060206006	MW-06	Water		6/7/2007 11:20	6/12/2007 11:27
T07060206007	MW-07	Water		6/7/2007 11:30	6/12/2007 11:27
T07060206008	MW-08	Water		6/7/2007 11:40	6/12/2007 11:27
T07060206009	MW-09	Water		6/7/2007 11:50	6/12/2007 11:27
T07060206010	MW-10	Water		6/7/2007 12:00	6/12/2007 11:27
T07060206011	MW-05	Water		6/7/2007 12:10	6/12/2007 11:27

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206001** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **Duplicate** | Date/Time Collected: 6/7/2007 00:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2717 SW-846 5030 on 06/13/2007 16:50 by CASS								
	Analytical Batches:								
	Batch: 2718 SW-846 8260B on 06/14/2007 09:40 by CASS								
Benzene	ND	ug/l		2.0	2.0	5	2717	2718	
Ethylbenzene	ND	ug/l		5.0	2.0	5	2717	2718	
Methyl Tert-Butyl Ether (MTBE)	1270	ug/l		5.0	1.5	5	2717	2718	
Toluene	ND	ug/l		5.0	2.0	5	2717	2718	
o-Xylene	ND	ug/l		5.0	1.5	5	2717	2718	
m-Xylene & p-Xylene	ND	ug/l		5.0	4.5	5	2717	2718	
Toluene d8 (S)	97	%		61-138		5	2717	2718	
4-Bromofluorobenzene (S)	95	%		65-137		5	2717	2718	
1,2-Dichloroethane-d4 (S)	96	%		49-138		5	2717	2718	
Preservation pH	<2					5	2717	2718	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206002** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **TRIP BLANK** | Date/Time Collected: 6/7/2007 00:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2705 SW-846 5030 on 06/13/2007 00:00 by CASS								
	Analytical Batches:								
	Batch: 2706 SW-846 8260B on 06/13/2007 17:15 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2705	2706	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2705	2706	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2705	2706	
Toluene	ND	ug/l		1.0	0.40	1	2705	2706	
o-Xylene	ND	ug/l		1.0	0.30	1	2705	2706	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2705	2706	
Toluene d8 (S)	102	%		61-138		1	2705	2706	
4-Bromofluorobenzene (S)	101	%		65-137		1	2705	2706	
1,2-Dichloroethane-d4 (S)	93	%		49-138		1	2705	2706	
Preservation pH	<2					1	2705	2706	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206003** — Date/Time Received: 6/12/2007 11:27 — Matrix: Water

Sample ID: **MW-01** — Date/Time Collected: 6/7/2007 10:50

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2742 SW-846 5030 on 06/18/2007 14:45 by CASS								
	Analytical Batches:								
	Batch: 2743 SW-846 8260B on 06/18/2007 19:32 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2742	2743	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2742	2743	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2742	2743	
Toluene	ND	ug/l		1.0	0.40	1	2742	2743	
o-Xylene	ND	ug/l		1.0	0.30	1	2742	2743	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2742	2743	
Toluene d8 (S)	115	%		61-138		1	2742	2743	
4-Bromofluorobenzene (S)	108	%		65-137		1	2742	2743	
1,2-Dichloroethane-d4 (S)	90	%		49-138		1	2742	2743	
Preservation pH	<2					1	2742	2743	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206004** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-03** | Date/Time Collected: 6/7/2007 11:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches: Batch: 2717 SW-846 5030 on 06/13/2007 16:50 by CASS; Analytical Batches: Batch: 2718 SW-846 8260B on 06/14/2007 08:07 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2717	2718	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2717	2718	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2717	2718	
Toluene	ND	ug/l		1.0	0.40	1	2717	2718	
o-Xylene	ND	ug/l		1.0	0.30	1	2717	2718	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2717	2718	
Toluene d8 (S)	97	%		61-138		1	2717	2718	
4-Bromofluorobenzene (S)	94	%		65-137		1	2717	2718	
1,2-Dichloroethane-d4 (S)	94	%		49-138		1	2717	2718	
Preservation pH	<2					1	2717	2718	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206005** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-02** | Date/Time Collected: 6/7/2007 11:10

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches: Batch: 2719 SW-846 5030 on 06/13/2007 16:54 by CASS; Analytical Batches: Batch: 2720 SW-846 8260B on 06/14/2007 08:53 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2719	2720	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2719	2720	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2719	2720	
Toluene	ND	ug/l		1.0	0.40	1	2719	2720	
o-Xylene	ND	ug/l		1.0	0.30	1	2719	2720	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2719	2720	
Toluene d8 (S)	103	%		61-138		1	2719	2720	
4-Bromofluorobenzene (S)	99	%		65-137		1	2719	2720	
1,2-Dichloroethane-d4 (S)	100	%		49-138		1	2719	2720	
Preservation pH	<2					1	2719	2720	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206006** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-06** | Date/Time Collected: 6/7/2007 11:20

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2717 SW-846 5030 on 06/13/2007 16:50 by CASS								
	Analytical Batches:								
	Batch: 2718 SW-846 8260B on 06/14/2007 14:52 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2717	2718	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2717	2718	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2717	2718	
Toluene	ND	ug/l		1.0	0.40	1	2717	2718	
o-Xylene	ND	ug/l		1.0	0.30	1	2717	2718	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2717	2718	
Toluene d8 (S)	98	%		61-138		1	2717	2718	
4-Bromofluorobenzene (S)	95	%		65-137		1	2717	2718	
1,2-Dichloroethane-d4 (S)	96	%		49-138		1	2717	2718	
Preservation pH	<2					1	2717	2718	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206007** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-07** | Date/Time Collected: 6/7/2007 11:30

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches: Batch: 2719 SW-846 5030 on 06/13/2007 16:54 by CASS; Analytical Batches: Batch: 2720 SW-846 8260B on 06/14/2007 08:22 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2719	2720	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2719	2720	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2719	2720	
Toluene	ND	ug/l		1.0	0.40	1	2719	2720	
o-Xylene	ND	ug/l		1.0	0.30	1	2719	2720	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2719	2720	
Toluene d8 (S)	103	%		61-138		1	2719	2720	
4-Bromofluorobenzene (S)	101	%		65-137		1	2719	2720	
1,2-Dichloroethane-d4 (S)	99	%		49-138		1	2719	2720	
Preservation pH	<2					1	2719	2720	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206008** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-08** | Date/Time Collected: 6/7/2007 11:40

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2717 SW-846 5030 on 06/13/2007 16:50 by CASS								
	Analytical Batches:								
	Batch: 2718 SW-846 8260B on 06/14/2007 08:38 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2717	2718	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2717	2718	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2717	2718	
Toluene	ND	ug/l		1.0	0.40	1	2717	2718	
o-Xylene	ND	ug/l		1.0	0.30	1	2717	2718	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2717	2718	
Toluene d8 (S)	98	%		61-138		1	2717	2718	
4-Bromofluorobenzene (S)	94	%		65-137		1	2717	2718	
1,2-Dichloroethane-d4 (S)	94	%		49-138		1	2717	2718	
Preservation pH	<2					1	2717	2718	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206009** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-09** | Date/Time Collected: 6/7/2007 11:50

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2719 SW-846 5030 on 06/13/2007 16:54 by CASS								
	Analytical Batches:								
	Batch: 2720 SW-846 8260B on 06/14/2007 15:07 by CASS								
Benzene	ND	ug/l		1.0	0.40	1	2719	2720	
Ethylbenzene	ND	ug/l		1.0	0.40	1	2719	2720	
Methyl Tert-Butyl Ether (MTBE)	ND	ug/l		5.0	0.30	1	2719	2720	
Toluene	ND	ug/l		1.0	0.40	1	2719	2720	
o-Xylene	ND	ug/l		1.0	0.30	1	2719	2720	
m-Xylene & p-Xylene	ND	ug/l		2.0	0.90	1	2719	2720	
Toluene d8 (S)	101	%		61-138		1	2719	2720	
4-Bromofluorobenzene (S)	99	%		65-137		1	2719	2720	
1,2-Dichloroethane-d4 (S)	101	%		49-138		1	2719	2720	
Preservation pH	<2					1	2719	2720	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206010** Date/Time Received: 6/12/2007 11:27 Matrix: Water
Sample ID: **MW-10** Date/Time Collected: 6/7/2007 12:00

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2719 SW-846 5030 on 06/13/2007 16:54 by CASS								
	Analytical Batches:								
	Batch: 2720 SW-846 8260B on 06/14/2007 09:25 by CASS								
Benzene	277	ug/l		2.0	2.0	5	2719	2720	
Ethylbenzene	19	ug/l		5.0	2.0	5	2719	2720	
Methyl Tert-Butyl Ether (MTBE)	66	ug/l		5.0	1.5	5	2719	2720	
Toluene	ND	ug/l		5.0	2.0	5	2719	2720	
o-Xylene	ND	ug/l		5.0	1.5	5	2719	2720	
m-Xylene & p-Xylene	15	ug/l		5.0	4.5	5	2719	2720	
Toluene d8 (S)	103	%		61-138		5	2719	2720	
4-Bromofluorobenzene (S)	101	%		65-137		5	2719	2720	
1,2-Dichloroethane-d4 (S)	98	%		49-138		5	2719	2720	
Preservation pH	<2					5	2719	2720	

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ANALYTICAL RESULTS

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID: **T07060206011** | Date/Time Received: 6/12/2007 11:27 | Matrix: Water

Sample ID: **MW-05** | Date/Time Collected: 6/7/2007 12:10

Parameters	Results	Units	Qual	Report Limit	MDL	DF	Prep	Batch	RegLmt
VOLATILES									
Analysis Desc: SW-846 8260B	Preparation Batches:								
	Batch: 2736 SW-846 5030 on 06/18/2007 11:52 by CASS								
	Analytical Batches:								
	Batch: 2737 SW-846 8260B on 06/18/2007 18:21 by CASS								
Benzene	ND	ug/l		2.0	2.0	5	2736	2737	
Ethylbenzene	ND	ug/l		5.0	2.0	5	2736	2737	
Methyl Tert-Butyl Ether (MTBE)	1060	ug/l		5.0	1.5	5	2736	2737	
Toluene	ND	ug/l		5.0	2.0	5	2736	2737	
o-Xylene	ND	ug/l		5.0	1.5	5	2736	2737	
m-Xylene & p-Xylene	ND	ug/l		5.0	4.5	5	2736	2737	
Toluene d8 (S)	97	%		61-138		5	2736	2737	
4-Bromofluorobenzene (S)	95	%		65-137		5	2736	2737	
1,2-Dichloroethane-d4 (S)	92	%		49-138		5	2736	2737	
Preservation pH	<2					5	2736	2737	

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Traverse City, MI 49686
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Fax: (231) 947-7455

QUALITY CONTROL DATA

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

QC Batch: MSV/2705 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/13/2007 11:18 by CASS

Associated Lab Samples: T07060119014, T07060119017, T07060119018, T07060119020, T07060152010, T07060206002, T07060221001, T07060221002, T07060221003, T07060221004, T07060221005

METHOD BLANK: 35718

Analysis Date/Time Analyst: 06/13/2007 12:54 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	96	49-138	
Toluene d8 (S)	%	103	61-138	
4-Bromofluorobenzene (S)	%	99	65-137	

LABORATORY CONTROL SAMPLE: 35719

Analysis Date/Time Analyst: 06/13/2007 11:27 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	51	103	70-130	
Benzene	ug/l	50	54	108	67-124	
1,2-Dichloroethane-d4 (S)	%			97	49-138	
Toluene d8 (S)	%			105	61-138	
4-Bromofluorobenzene (S)	%			103	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35720 35721 Original: T07060152010

MS Analysis Date/Time Analyst: 06/13/2007 11:56 CASS

MSD Analysis Date/Time Analyst: 06/13/2007 12:25 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.17	50	50	50	101	100	73-115	1	57	
Benzene	ug/l	ND	50	56	55	112	110	61-125	1.8	32	
1,2-Dichloroethane-d4 (S)	%	97				96	98	49-138			
Toluene d8 (S)	%	102				104	104	61-138			
4-Bromofluorobenzene (S)	%	100				100	102	65-137			

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Traverse City, MI 49686
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Fax: (231) 947-7455

QUALITY CONTROL DATA

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

QC Batch: MSV/2717 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/13/2007 16:50 by CASS

Associated Lab Samples: T07060152001 T07060206001 T07060206004 T07060206006 T07060206008

METHOD BLANK: 35913

Analysis Date/Time Analyst: 06/14/2007 06:33 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	94	49-138	
Toluene d8 (S)	%	97	61-138	
4-Bromofluorobenzene (S)	%	95	65-137	

LABORATORY CONTROL SAMPLE: 35914

Analysis Date/Time Analyst: 06/14/2007 04:28 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	44	88	70-130	
Benzene	ug/l	50	37	74	67-124	
1,2-Dichloroethane-d4 (S)	%			91	49-138	
Toluene d8 (S)	%			97	61-138	
4-Bromofluorobenzene (S)	%			98	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35915 35916 Original: T07060152001

MS Analysis Date/Time Analyst: 06/14/2007 04:59 CASS

MSD Analysis Date/Time Analyst: 06/14/2007 05:31 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.3	50	43	44	87	87	73-115	0	57	
Benzene	ug/l	ND	50	40	40	80	79	61-125	1.3	32	
1,2-Dichloroethane-d4 (S)	%	93				92	93	49-138			
Toluene d8 (S)	%	97				96	98	61-138			
4-Bromofluorobenzene (S)	%	95				94	95	65-137			

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QUALITY CONTROL DATA

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

QC Batch: MSV/2719 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/13/2007 16:54 by CASS

Associated Lab Samples: T07060152008 T07060206005 T07060206007 T07060206009 T07060206010

METHOD BLANK: 35917

Analysis Date/Time Analyst: 06/14/2007 06:49 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	98	49-138	
Toluene d8 (S)	%	102	61-138	
4-Bromofluorobenzene (S)	%	99	65-137	

LABORATORY CONTROL SAMPLE: 35918

Analysis Date/Time Analyst: 06/14/2007 04:44 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	52	105	70-130	
Benzene	ug/l	50	46	92	67-124	
1,2-Dichloroethane-d4 (S)	%			96	49-138	
Toluene d8 (S)	%			104	61-138	
4-Bromofluorobenzene (S)	%			105	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35919 35920 Original: T07060152008

MS Analysis Date/Time Analyst: 06/14/2007 05:15 CASS

MSD Analysis Date/Time Analyst: 06/14/2007 05:46 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.2	50	47	47	94	94	73-115	0	57	
Benzene	ug/l	ND	50	42	42	84	84	61-125	0	32	
1,2-Dichloroethane-d4 (S)	%	98				96	96	49-138			
Toluene d8 (S)	%	103				102	104	61-138			
4-Bromofluorobenzene (S)	%	102				100	101	65-137			

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QUALITY CONTROL DATA

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

QC Batch: MSV/2736 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/18/2007 11:52 by CASS

Associated Lab Samples: T07060206011 T07060236001

METHOD BLANK: 37001

Analysis Date/Time Analyst: 06/18/2007 17:12 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	99	49-138	
Toluene d8 (S)	%	107	61-138	
4-Bromofluorobenzene (S)	%	94	65-137	

LABORATORY CONTROL SAMPLE: 37002

Analysis Date/Time Analyst: 06/18/2007 12:11 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	48	96	70-130	
Benzene	ug/l	50	39	78	67-124	
1,2-Dichloroethane-d4 (S)	%			95	49-138	
Toluene d8 (S)	%			96	61-138	
4-Bromofluorobenzene (S)	%			97	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37003 37004 Original: T07060236001

MS Analysis Date/Time Analyst: 06/18/2007 12:43 CASS

MSD Analysis Date/Time Analyst: 06/18/2007 13:30 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.09	50	41	41	82	81	73-115	1.2	57	
Benzene	ug/l	ND	50	34	34	68	68	61-125	0	32	
1,2-Dichloroethane-d4 (S)	%	97				94	95	49-138			
Toluene d8 (S)	%	96				97	96	61-138			
4-Bromofluorobenzene (S)	%	94				98	97	65-137			

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Fax: (231) 947-7455

QUALITY CONTROL DATA

Workorder: T07060206 : 3642 - SPEEDWAY STATION — Project Number: AFE #N/A, WO #N/A, 20

QC Batch: MSV/2742 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/18/2007 14:45 by CASS

Associated Lab Samples: T07060162001 T07060162008 T07060162010 T07060162014 T07060162016 T07060206003

METHOD BLANK: 37045

Analysis Date/Time Analyst: 06/18/2007 15:17 CASS

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl Tert-Butyl Ether (MTBE)	ug/l	ND	5.0	
Toluene	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
m-Xylene & p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Benzene	ug/l	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	93	49-138	
Toluene d8 (S)	%	115	61-138	
4-Bromofluorobenzene (S)	%	108	65-137	

LABORATORY CONTROL SAMPLE: 37046

Analysis Date/Time Analyst: 06/18/2007 13:51 CASS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/l	50	52	103	70-130	
Benzene	ug/l	50	48	96	67-124	
1,2-Dichloroethane-d4 (S)	%			95	49-138	
Toluene d8 (S)	%			113	61-138	
4-Bromofluorobenzene (S)	%			113	65-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37047 37048 Original: T07060252009

MS Analysis Date/Time Analyst: 06/18/2007 14:20 CASS

MSD Analysis Date/Time Analyst: 06/18/2007 14:48 CASS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Toluene	ug/l	0.06	50	47	47	93	94	73-115	1.1	57	
Benzene	ug/l	0.05	50	45	45	90	90	61-125	0	32	
1,2-Dichloroethane-d4 (S)	%	ND				95	95	49-138			
Toluene d8 (S)	%	ND				114	114	61-138			
4-Bromofluorobenzene (S)	%	ND				107	107	65-137			

SPL Inc.
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Traverse City, MI 49686
Phone: (231) 947-5777
Fax: (231) 947-7455

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T07060206 : 3642 - SPEEDWAY STATION | Project Number: AFE #N/A, WO #N/A, 20

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
T07060206002	**TRIP BLANK**	SW-846 5030	MSV/2705	SW-846 8260B	MSV/2706
T07060206001	**Duplicate**	SW-846 5030	MSV/2717	SW-846 8260B	MSV/2718
T07060206004	**MW-03**	SW-846 5030	MSV/2717	SW-846 8260B	MSV/2718
T07060206006	**MW-06**	SW-846 5030	MSV/2717	SW-846 8260B	MSV/2718
T07060206008	**MW-08**	SW-846 5030	MSV/2717	SW-846 8260B	MSV/2718
T07060206005	**MW-02**	SW-846 5030	MSV/2719	SW-846 8260B	MSV/2720
T07060206007	**MW-07**	SW-846 5030	MSV/2719	SW-846 8260B	MSV/2720
T07060206009	**MW-09**	SW-846 5030	MSV/2719	SW-846 8260B	MSV/2720
T07060206010	**MW-10**	SW-846 5030	MSV/2719	SW-846 8260B	MSV/2720
T07060206011	**MW-05**	SW-846 5030	MSV/2736	SW-846 8260B	MSV/2737
T07060206003	**MW-01**	SW-846 5030	MSV/2742	SW-846 8260B	MSV/2743

Custody-Record

10/1000 ACO

COC ID # 00011414

B7

SuperAmerica Project Information

SSA STORE #	0003642			LAB	SPL Michigan
ADDRESS	939 Dixie Hwy			CONSULTANT	ATC ASSOCIATES INC
CITY	Rossford	STATE	OH	PROJECT MGR	Travis S. Bukach ***INVOICE TO***
SSA PROJ MGR	Keith A. Hughes			ADDRESS	10020 Brecksville Road Brecksville, Ohio 44141
PHONE #	(937)863-7642	FAX #	(937)863-6078	PHONE #	440-838-7177 FAX # 440-838-7181
	DIRECT STATE DAY SITE			SAMPLER	Derek Egli
CODE	20 - Site Investigation-Operational/Non-Operational Facility			SHIPPED VIA	FedExp
TYPE	L - Analytical			TRACKING #	

TURN AROUND TIME: STANDARD

Sample ID	Date/Time Sampled	Matrix	# of Cont	Container Type	Preservative	Analysis to be Performed	Remarks
Duplicate	06/07/2007 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	
TRIP BLANK	06/07/2007 12:00am	W	1	VOA	HCL	BTEX/MTBE 8260B	
MW-01	06/07/2007 10:50am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-03	06/07/2007 11:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-02	06/07/2007 11:10am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-06	06/07/2007 11:20am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-07	06/07/2007 11:30am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-08	06/07/2007 11:40am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-09	06/07/2007 11:50am	W	2	VOA	HCL	BTEX/MTBE 8260B	
MW-10	06/07/2007 12:00pm	W	2	VOA	HCL	BTEX/MTBE 8260B	Luc Lange Bottle

Relinquished by: Fedex	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory: SPL-[illegible]
Special Reporting Requirements: Job# 08 751 16.0340 PO# 07-08-0105			Lab Notes

Date: 6/12/07 Time: 945

Temp: 1.0

Wednesday, June 20, 2007 11:29:36 AM

Chain-of-Custody-Record 10/06/0006

COC ID # 0001414

Speedway SuperAmerica Project Information

SSA STORE #	0003642			LAB	SPL Michigan
ADDRESS	939 Dixie Hwy			CONSULTANT	ATC ASSOCIATES INC
CITY	Rossford	STATE	OH	PROJECT MGR	Travis S. Bukach ***INVOICE TO***
SSA PROJ MGR	Keith A. Hughes			ADDRESS	10020 Brecksville Road Brecksville, Ohio 44141
PHONE #	(937)863-7642	FAX #	(937)863-6078	PHONE #	440-838-7177 FAX # 440-838-7181
	DIRECT STATE PAY SITE			SAMPLER:	Derek Egli
CODE	20 - Site Investigation-Operational/Non-Operational Facility			SHIPPED VIA	FedExp
TYPE	L - Analytical			TRACKING #:	

TURN AROUND TIME
STANDARD

Sample ID	Date/Time Sampled	Matrix	# of Cont	Container Type	Preservative	Analysis to be Performed	Remarks
MW-05	06/07/2007 12:10pm	W	2	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by: Fedex — Date — Time
Relinquished by — Date — Time
Special Reporting Requirements: 2007 08 75116 0340 PO# 07-08-0105

Received by — Received by laboratory: SPL-CBT — Lab Notes

Date: 6/12/07 Time: 945
Temp: 1.0

APPENDIX B

GROUNDWATER PURGE LOG

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0340	Date	06/07/07

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.8	NA	22.1	3.6	10.8	Purged Dry	10:50	Bleach color and odor
MW-2	2	39.65	23.27	NA	16.38	2.7	8.0	8	11:10	Bleach color and odor
MW-3	2	40.5	23.81	NA	16.69	2.7	8.2	Purged Dry	11:00	Bleach color and odor
MW-4	2	15.7	5.64	5.61	10.06	1.6	4.9	3	No sample	
MW-5	2	31	8.75	NA	22.25	3.6	10.9	10.9	12:10	
MW-6	2	37.6	19	NA	18.6	3.0	9.1	Purged Dry	11:20	Bleach color and odor
MW-7	2	18.7	7.89	NA	10.81	1.8	5.3	Purged Dry	11:30	
MW-8	2	15	11.2	NA	3.8	0.6	1.9	1.9	11:40	
MW-9	2	14.3	6.76	NA	7.54	1.2	3.7	3.7	11:50	
MW-10	2	21.6	10.79	NA	10.81	1.8	5.3	5.3	12:00	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

ATC ASSOCIATES INC.
Engineering Individual Solutions

10020 Brecksville Road
Brecksville, OH 44141-3219
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Fax 440-838-7181

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GROUNDWATER SAMPLING REPORT
(Third & Fourth (Final Event))

Speedway Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Eric M. Swaisgood
Environmental Representative
SPEEDWAY LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0612

Colleen Varga
Staff Geologist

Doug Darrah
Senior Project Manager

February 22, 2011

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3.0 SAMPLING METHODOLOGY AND RESULTS **2**
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3.2 Analytical Results 2
4.0 CONCLUSIONS **2**

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Appendix C Groundwater Analytical Laboratory Report and Chain-of-Custody Records

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SFM/BUSTR
2011 FEB 25 PM 1:55

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway LLC (Speedway) to conduct groundwater sampling activities at Speedway Store #3642 located at 939 Dixie Highway, Rossford, Wood County, Ohio (**Figures 1 & 2**). This report summarizes the groundwater monitoring and sampling activities conducted at the site on July 20, 2010 and October 19, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* (dated March 31, 2009) and the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) pre-approval (**Appendix A**). Please reference **Tables 1 & 2** for historical soil data collected during the assessment phase for this site.

2.0 BACKGROUND INFORMATION

2.1 Site Description

Speedway Store #3642 is an active gasoline retail facility located at 41° 36' 18.0" North, 83° 33' 44.0" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway (State Route 65) and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio (**Figure 2**). The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

The Bureau of Underground Storage Tank Regulations (BUSTR) issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern are associated with the BUSTR Analytical Group 1: benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

Historical soil and groundwater analytical result tables have been included as **Tables 1** through **4** for reference.

3.0 SAMPLING METHODOLOGY AND RESULTS

3.1 Groundwater Monitoring and Sampling

On July 20, 2010, depth to fluid measurements and groundwater samples were collected from MW-04, MW-05, MW-10, and MW-11. On October 19, 2010, depth to fluid measurements were collected from all wells and groundwater samples were collected from MW-04, MW-05, MW-08, MW-10, and MW-11. Depth to fluid measurements were collected with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**). A potentiometric surface map from October 19, 2010 has been included as **Figure 4.** Clean, nitrile gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination. Prior to sampling, the wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. Dedicated disposable bailers were used for each well to prevent possible cross-contamination. The wells were then allowed to recharge before water samples were collected. Purge logs have been included as **Appendix B.**

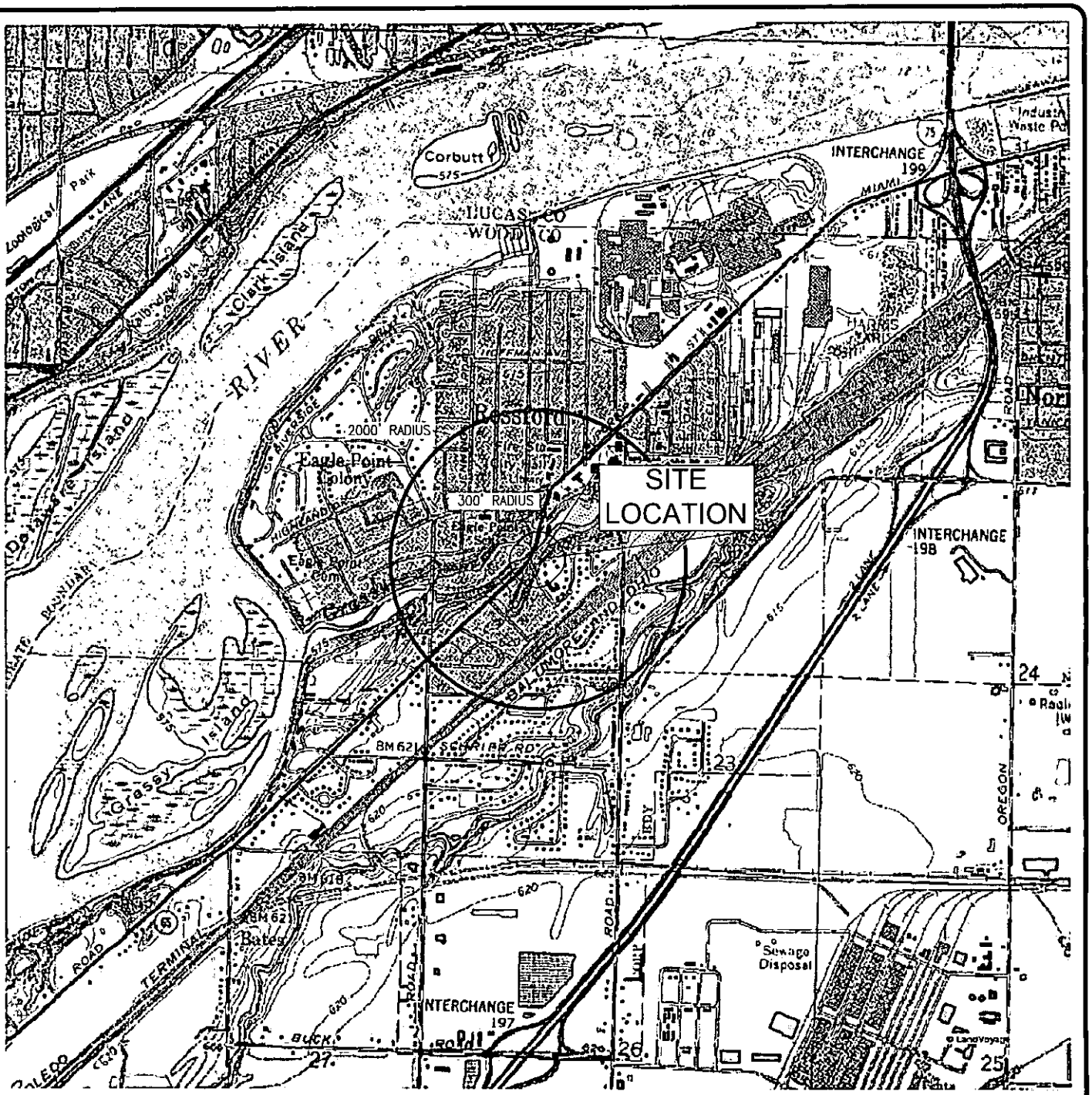
Water samples were collected using the dedicated bailers, and divided between three laboratory-supplied 40-milliliter vials. A trip blank and a duplicate sample from MW-04 were also submitted for analysis during each sampling event. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Pace Analytical Services, Inc (Pace) in Green Bay, Wisconsin, and analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by United States Environmental Protection Agency (U.S. EPA) Method 8021B. The results of the laboratory analysis have been summarized in **Table 3 & 4** and are illustrated on **Figure 3**. The complete laboratory report has been included in **Appendix C**.

3.2 Analytical Results

Laboratory analytical results for groundwater samples collected on July 20, 2010 and October 19, 2010 indicate MTBE concentrations in MW-4, MW-5, MW-10, and MW-11 continue to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

4.0 CONCLUSIONS

This completes the third and final quarterly groundwater sampling events as outlined in the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* (dated March 31, 2009). ATC recommends preparing a Remedial Action Plan for conducting either a Tier 3 Evaluation Work Plan or active corrective actions in order to address MTBE concentrations which continue to exceed Tier 2 SSTLs.



OHIO

Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

2/2/11

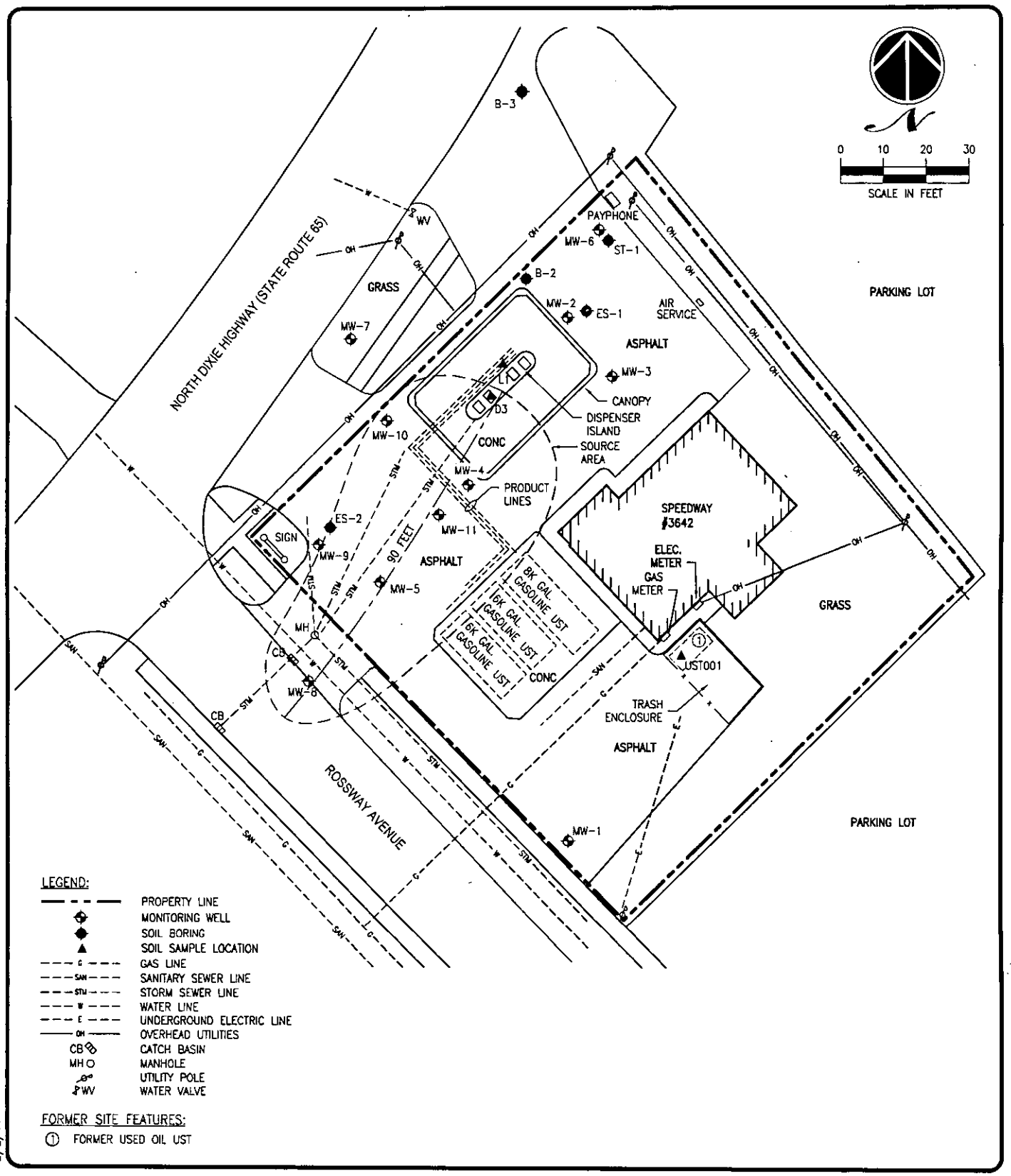
...Speedway3642-SLM.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: CEV	FIGURE 1

SITE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



2/2/11

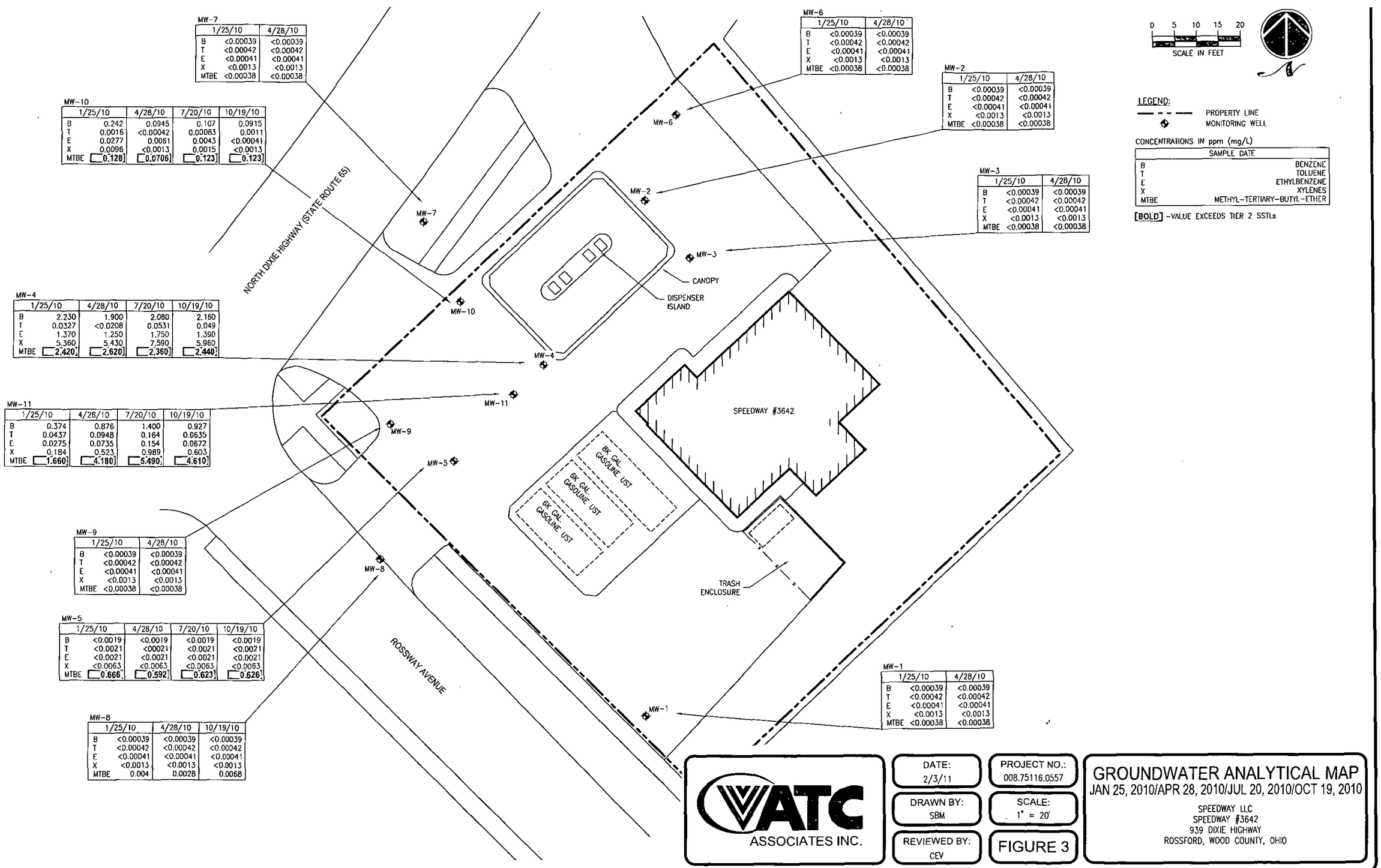
...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 2

SITE MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



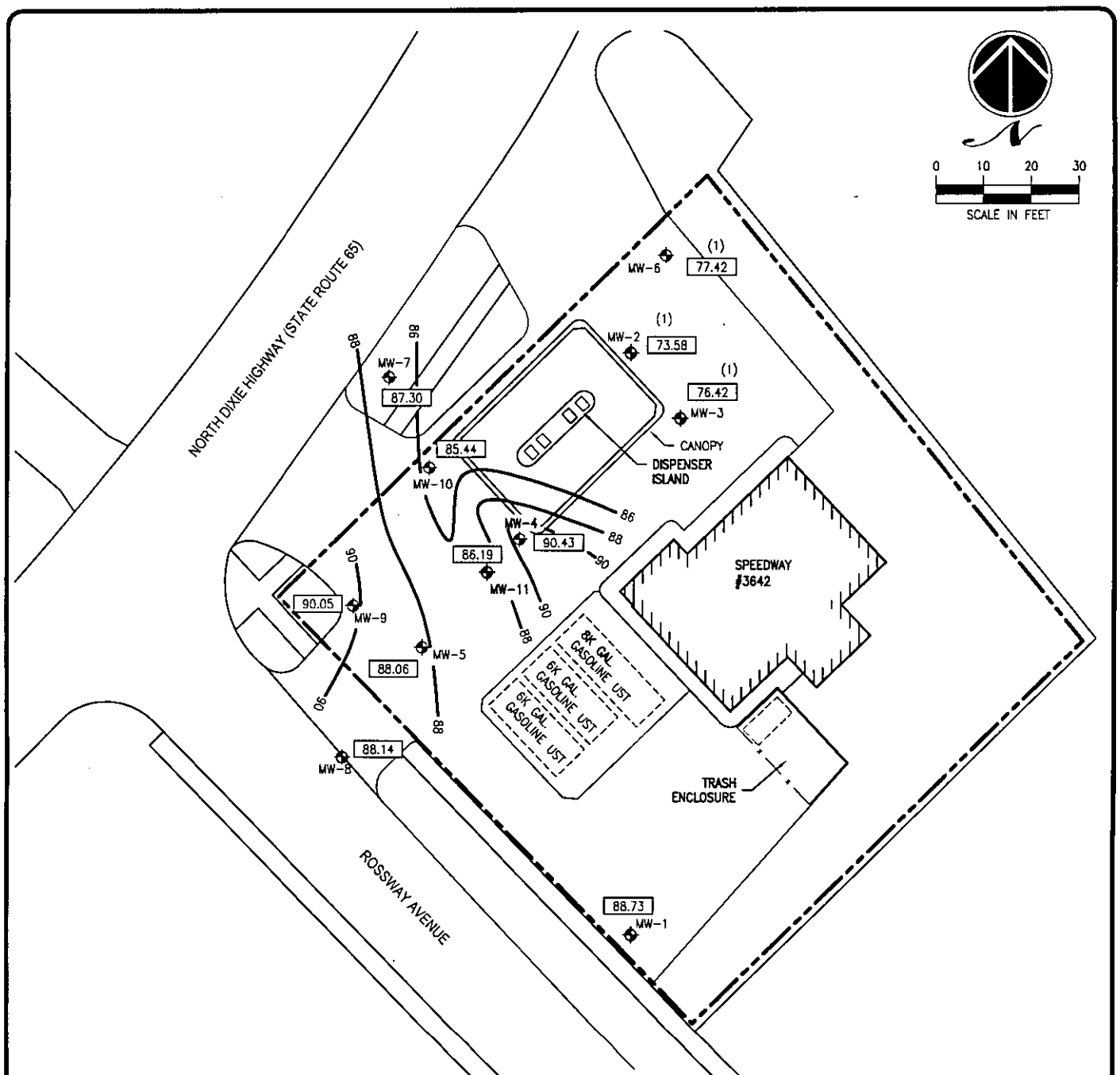
ATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 008.75116.0557
DRAWN BY: SBM	SCALE: 1" = 20'
REVIEWED BY: CEV	FIGURE 3

GROUNDWATER ANALYTICAL MAP
JAN 25, 2010/APR 28, 2010/JUL 20, 2010/OCT 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...Speedway3642-01.dwg 2/2/11



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- 89.29 — RELATIVE GROUNDWATER ELEVATION
- (1) — NOT USED TO CREATE CONTOURS
- 88 — EQUIPOTENTIAL CONTOUR LINE (2.0 FOOT CONTOUR INTERVAL) (DASHED WHERE INFERRED)

2/2/11

...Speedway3642-01.dwg

VATC ASSOCIATES INC.

DATE: 2/3/11	PROJECT NO.: 08.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 4

POTENTIOMETRIC SURAFCE MAP
OCTOBER 19, 2010

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.012	< 0.008	< 0.011	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.012	< 0.008	< 0.011	< 0.028	< 0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	01/25/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	04/28/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	07/20/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	0.500
								TRIP BLANK	10/19/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Remediation System Influent											**NA**	**NA**	**NA**	**NA**	**NA**
INFLUENT								INFLUENT	10/07/2009	14:00	< 0.230	< 0.360	< 0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	< 0.230	< 0.360	< 0.400	< 1.100	51.400
								INFLUENT	12/21/2009	15:00	< 0.390	< 0.420	< 0.410	< 1.300	44.600
Action Levels - Remediation System Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
EFFLUENT								EFFLUENT	10/07/2009	14:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	11/05/2009	18:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	12/21/2009	15:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								EFFLUENT	01/04/2010	18:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	100.8	89.29	11.51			MW-01	04/28/2010	14:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	100.8	88.73	12.07										
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										
	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.19	73.36	23.83			MW-02	04/28/2010	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.19	73.58	23.61										
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	98.44	76.31	22.13			MW-03	04/28/2010	15:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	98.44	76.42	22.02										
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	**2420.000**
	04/28/2010	00:00	97.98	90.67	7.31			MW-04	04/28/2010	15:30	1900.000	< 20.800	1250.000	5430.000	**2620.000**
	07/20/2010	00:00	97.98	91.92	6.06			MW-04	07/20/2010	14:20	2080.000	53.100	1750.000	7590.000	**2360.000**
	10/19/2010	00:00	97.98	90.43	7.55			MW-04	10/19/2010	12:10	2160.000	49.000	1390.000	5960.000	**2440.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	< 1.900	< 2.100	< 2.100	< 6.300	**666.000**
	04/28/2010	00:00	96.47	87.95	8.52			MW-05	04/28/2010	15:50	< 1.900	< 2.100	< 2.100	< 6.300	**592.000**
	07/20/2010	00:00	96.47	88	8.47			MW-05	07/20/2010	14:30	< 1.900	< 2.100	< 2.100	< 6.300	**623.000**
	10/19/2010	00:00	96.47	88.06	8.41			MW-05	10/19/2010	12:30	< 1.900	< 2.100	< 2.100	< 6.300	**626.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
		--						MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										
	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	96.7	78.13	18.57			MW-06	04/28/2010	15:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	96.7	77.42	19.28										
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.09	90.33	6.76			MW-09	04/28/2010	14:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	97.09	90.05	7.04										
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	**128.000**
	04/28/2010	00:00	96.52	85.71	10.81			MW-10	04/28/2010	14:40	94.500	< 0.420	6.100	< 1.300	**70.600**
	07/20/2010	00:00	96.52	84.72	11.8			MW-10	07/20/2010	14:40	107.000	0.830	4.300	1.500	**123.000**
	10/19/2010	00:00	96.52	85.44	11.08			MW-10	10/19/2010	12:00	91.500	1.100	< 0.410	< 1.300	**123.000**
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	**1660.000**
	04/28/2010	00:00	96.63	88.11	8.52			MW-11	04/28/2010	15:40	876.000	94.800	73.500	523.000	**4180.000**
	07/20/2010	00:00	96.63	88.06	8.57			MW-11	07/20/2010	14:50	1400.000	164.000	154.000	989.000	**5490.000**
	10/19/2010	00:00	96.63	86.19	10.44			MW-11	10/19/2010	12:20	927.000	63.500	67.200	603.000	**4610.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	04/28/2010	00:00	95.7	88.18	7.52			MW-07	04/28/2010	14:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	10/19/2010	00:00	95.7	87.3	8.4										
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	< 0.390	< 0.420	< 0.410	< 1.300	4.000
	04/28/2010	00:00	98.78	89.43	9.35			MW-08	04/28/2010	14:20	< 0.390	< 0.420	< 0.410	< 1.300	2.800
	10/19/2010	00:00	98.78	88.14	10.64			MW-08	10/19/2010	11:50	< 0.390	< 0.420	< 0.410	< 1.300	6.800
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**NA**	**NA**	**NA**	**NA**	**NA**
MID CARBON								MID CARBON	10/07/2009	14:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	11/05/2009	18:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	12/21/2009	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Air Stripper Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	< 0.230	< 0.360	< 0.400	< 1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	< 0.230	< 0.360	< 0.400	< 1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	< 0.390	< 0.420	< 0.410	< 1.300	1.300

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	NA	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,I)perylene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	NA	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	NA	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	NA	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	NA	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	NA	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	NA	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A

GOVERNMENT CORRESPONDENCE

Petroleum Underground Storage Tank Release Compensation Board

P.O. Box 163188 • Columbus, Ohio 43216-3188
Phone: (614) 752-8963 • Fax: (614) 752-8397
www.petroboard.com

RECEIVED
Environmental
APR 2 7 2009
SSA, LLC

April 24, 2009

Mr. Adam Campbell
Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

CLAIM NUMBER: 3567-305/02/27/97
RELEASE #: 87000087-N00002
RELEASE SITE ADDRESS:
SSA #3642
939 East River Rd.
Rossford, OH 43460
IRA/MP COST SUBMISSION DATE: 4/3/09

Dear Mr. Campbell:

The cost pre-approval request for an Interim Response Action (IRA) followed by one year of groundwater monitoring for the above-referenced site has been reviewed. The proposed work includes a baseline groundwater sampling event of 10 monitoring wells; permitting; conversion of an existing monitoring well into a recovery well and installation of a new recovery well; subgrade/vault installation; an electrical power drop; three months of liquid recovery via a rented high vacuum dual-phase recovery mobile treatment unit (MTU); preparation of an IRA implementation report with a monitoring plan; four quarterly groundwater sampling events; and preparation of an IRA completion report with a Tier 3 work plan. The cost estimate for the proposed work totals $81,894 ($67,682 + $14,212).

For the reasons set forth below, the cost estimate is granted preliminary approval with modification for $80,914 and under the following condition:

- The cost estimate inadvertently includes "24" samples at $75 each and "20" disposable bailers at $8 each for the proposed baseline groundwater sampling event of 10 existing monitoring wells. Based on the additional information received from ATC Associates Inc. on April 22, 2009, the correct numbers should be 12 samples and 10 bailers. Therefore, a reduction of $980 [(24 - 12) x $75 + (20 - 10) x $8] is reflected in the pre-approved amount.

- Included in the cost estimate are MTU rental charges of $15,000 based on $5,000 per month for three months. In accordance with an April 22, 2009 e-mail from ATC Associates, SSA will use a less expensive Kemron trailer (at $3,500 per month) if one is available when this IRA is implemented.

Please be advised that when a claim is filed, the costs will be evaluated based upon the actual costs as verified by the claim's documentation. At that time please be certain the invoices are broken down on a time and material basis and you have included all subcontractor (e.g., laboratory, driller, equipment, etc.) invoices. Only those actual costs which are documented and eligible in accordance with the Board's rules will be reimbursed.

Only the work described in the IRA/MP has been reviewed. Any work that is performed beyond that described may affect our evaluation. If this IRA/MP is revised in anyway, please contact this office

immediately. **Reimbursement of IRA/MP implementation costs submitted in a claim without cost pre-approval will be limited to no greater than 50% of the usual, customary and reasonable costs of the least expensive remedial alternative based on the Fund's experience.**

If you have any questions, please contact Cindy Duann or me at (614) 752-8963 or (800) 224-4659.

Sincerely,

Starr Richmond

Starr J. Richmond
Director
Financial Assurance Fund

cc: Travis Bukach, ATC Associates Inc., 10020 Brecksville Road, Brecksville, OH 44141

APPENDIX B

PURGE / WELL DEVELOPMENT LOGS

GROUNDWATER PURGING REPORT

Client	Spreedway #3642	Location	939 Dixie Highway, Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	07/20/10

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-4	2	15.7	6.06	NA	9.64	1.6	4.7	4.7	14:10	Duplicate Taken
MW-5	2	31	8.47	NA	22.53	3.7	11.0	Purged Dry	14:20	
MW-10	2	21.6	11.8	NA	9.8	1.6	4.8	4.8	14:30	
MW-11	2	22	8.57	NA	13.43	2.2	6.6	6.6	14:40	

1" = 0.041 . 2" = 0.163 4" = 0.653 6" = 1.47

GROUNDWATER PURGING REPORT

Client	Speedway #3642	Location	939 Dixie Highway, Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	10/19/10

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-4	2	15.7	7.55	NA	8.15	1.3	4.0	4	12:10	Duplicate Taken
MW-5	2	31	8.41	NA	22.59	3.7	11.0	11	12:30	
MW-8	2	15	10.64	NA	4.36	0.7	2.1	Purged dry	11:50	
MW-10	2	21.6	11.08	NA	10.52	1.7	5.1	5.1	12:00	
MW-11	2	22	10.44	NA	11.56	1.9	5.7	5.7	12:20	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

APPENDIX C

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 29, 2010

Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 441413219

RE: Project: 0003642
Pace Project No.: 4034799

Dear Travis Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0003642
Pace Project No.: 4034799

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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(920)469-2436

SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4034799

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4034799001	TRIP BLANK	Water	07/20/10 00:00	07/23/10 13:20
4034799002	Duplicate	Water	07/20/10 00:00	07/23/10 13:20
4034799003	MW-04	Water	07/20/10 14:20	07/23/10 13:20
4034799004	MW-05	Water	07/20/10 14:30	07/23/10 13:20
4034799005	MW-10	Water	07/20/10 14:40	07/23/10 13:20
4034799006	MW-11	Water	07/20/10 14:50	07/23/10 13:20

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4034799

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4034799001	**TRIP BLANK**	EPA 8021	SES	6	PASI-G
4034799002	**Duplicate**	EPA 8021	SES	6	PASI-G
4034799003	**MW-04**	EPA 8021	SES	6	PASI-G
4034799004	**MW-05**	EPA 8021	SES	6	PASI-G
4034799005	**MW-10**	EPA 8021	SES	6	PASI-G
4034799006	**MW-11**	EPA 8021	SES	6	PASI-G

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: TRIP BLANK **Lab ID: 4034799001** Collected: 07/20/10 00:00 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.39**	ug/L	1.0	0.39	1		07/27/10 08:12	71-43-2	
Ethylbenzene	**<0.41**	ug/L	1.0	0.41	1		07/27/10 08:12	100-41-4	
Methyl-tert-butyl ether	**0.50J**	ug/L	1.0	0.38	1		07/27/10 08:12	1634-04-4	
Toluene	**<0.42**	ug/L	1.0	0.42	1		07/27/10 08:12	108-88-3	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		07/27/10 08:12	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		07/27/10 08:12	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: Duplicate **Lab ID: 4034799002** Collected: 07/20/10 00:00 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**2100**	ug/L	50.0	19.4	50		07/26/10 17:09	71-43-2	
Ethylbenzene	**1700**	ug/L	50.0	20.7	50		07/26/10 17:09	100-41-4	
Methyl-tert-butyl ether	**2420**	ug/L	50.0	19.0	50		07/26/10 17:09	1634-04-4	
Toluene	**48.1J**	ug/L	50.0	20.8	50		07/26/10 17:09	108-88-3	
Xylene (Total)	**7330**	ug/L	150	62.6	50		07/26/10 17:09	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120		50		07/26/10 17:09	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: MW-04 **Lab ID: 4034799003** Collected: 07/20/10 14:20 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**2080**	ug/L	50.0	19.4	50		07/26/10 16:44	71-43-2	
Ethylbenzene	**1750**	ug/L	50.0	20.7	50		07/26/10 16:44	100-41-4	
Methyl-tert-butyl ether	**2360**	ug/L	50.0	19.0	50		07/26/10 16:44	1634-04-4	
Toluene	**53.1**	ug/L	50.0	20.8	50		07/26/10 16:44	108-88-3	
Xylene (Total)	**7590**	ug/L	150	62.6	50		07/26/10 16:44	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%	80-120		50		07/26/10 16:44	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: MW-05 **Lab ID: 4034799004** Collected: 07/20/10 14:30 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.9**	ug/L	5.0	1.9	5		07/27/10 09:04	71-43-2	
Ethylbenzene	**<2.1**	ug/L	5.0	2.1	5		07/27/10 09:04	100-41-4	
Methyl-tert-butyl ether	**623**	ug/L	5.0	1.9	5		07/27/10 09:04	1634-04-4	
Toluene	**<2.1**	ug/L	5.0	2.1	5		07/27/10 09:04	108-88-3	
Xylene (Total)	**<6.3**	ug/L	15.0	6.3	5		07/27/10 09:04	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120		5		07/27/10 09:04	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: MW-10 **Lab ID: 4034799005** Collected: 07/20/10 14:40 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**107**	ug/L	1.0	0.39	1		07/26/10 15:01	71-43-2	
Ethylbenzene	**4.3**	ug/L	1.0	0.41	1		07/26/10 15:01	100-41-4	
Methyl-tert-butyl ether	**123**	ug/L	1.0	0.38	1		07/26/10 15:01	1634-04-4	
Toluene	**0.83J**	ug/L	1.0	0.42	1		07/26/10 15:01	108-88-3	
Xylene (Total)	**1.5J**	ug/L	3.0	1.3	1		07/26/10 15:01	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		07/26/10 15:01	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4034799

Sample: MW-11 **Lab ID: 4034799006** Collected: 07/20/10 14:50 Received: 07/23/10 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1400**	ug/L	25.0	9.7	25		07/27/10 09:30	71-43-2	
Ethylbenzene	**154**	ug/L	25.0	10.4	25		07/27/10 09:30	100-41-4	
Methyl-tert-butyl ether	**5490**	ug/L	25.0	9.5	25		07/27/10 09:30	1634-04-4	
Toluene	**164**	ug/L	25.0	10.4	25		07/27/10 09:30	108-88-3	
Xylene (Total)	**989**	ug/L	75.0	31.3	25		07/27/10 09:30	1330-20-7	
a,a,a-Trifluorotoluene (S)	97	%	80-120		25		07/27/10 09:30	98-08-8	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4034799

QC Batch: GCV/5353 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4034799001, 4034799002, 4034799003, 4034799004, 4034799005, 4034799006

METHOD BLANK: 331779 Matrix: Water
Associated Lab Samples: 4034799001, 4034799002, 4034799003, 4034799004, 4034799005, 4034799006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.39	1.0	07/26/10 11:27	
Ethylbenzene	ug/L	<0.41	1.0	07/26/10 11:27	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	07/26/10 11:27	
Toluene	ug/L	<0.42	1.0	07/26/10 11:27	
Xylene (Total)	ug/L	<1.3	3.0	07/26/10 11:27	
a,a,a-Trifluorotoluene (S)	%	99	80-120	07/26/10 11:27	

LABORATORY CONTROL SAMPLE & LCSD: 331780 331781

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.5	19.3	98	96	80-120	1	20	
Ethylbenzene	ug/L	20	19.2	19.1	96	95	80-120	.5	20	
Methyl-tert-butyl ether	ug/L	20	19.4	19.3	97	97	80-120	.7	20	
Toluene	ug/L	20	19.3	19.1	97	96	80-120	.9	20	
Xylene (Total)	ug/L	60	56.8	56.9	95	95	80-120	.2	20	
a,a,a-Trifluorotoluene (S)	%				98	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331940 331941

Parameter	Units	4034799002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2100	1000	1000	3080	3000	98	90	23-177	3	20	
Ethylbenzene	ug/L	1700	1000	1000	2700	2580	100	88	63-144	5	20	
Methyl-tert-butyl ether	ug/L	2420	1000	1000	3370	3290	95	87	80-120	2	20	
Toluene	ug/L	48.1J	1000	1000	1060	1040	101	100	53-164	1	20	
Xylene (Total)	ug/L	7330	3000	3000	10300	9820	101	83	41-166	5	20	
a,a,a-Trifluorotoluene (S)	%						101	97	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 0003642
Pace Project No.: 4034799

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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4034799

VMEN

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00022049

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087

ADDRESS: 939 Dixie Hwy

CITY: Rossford STATE: OH

SSA PROJ. MGR: Eric Swaisgood

PHONE #: Bus: 937-863-6513 x FAX #:

DIRECT STATE PAY SITE

CODE: 20 - Site Investigation-Operational/Non-Operational Facility

TYPE: L - Analytical 40ml

TURN AROUND TIME: STANDARD

LAB: Pace Analytical Services (WI)

CONSULTANT: ATC Associates Inc. - Cleveland, OH

PROJECT MGR: Travis Bukach ***INVOICE TO***

ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141

PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181

SAMPLER: Derek Egli

SHIPPED VIA: FedExp

TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	07/20/2010 12:00am	W	1	VOA	HCL	BTEX \ MTBE 8021B 001	
Duplicate	07/20/2010 12:00am	W	2	VOA	HCL	BTEX \ MTBE 8021B 002	
MW-04	07/20/2010 02:20pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 003	
MW-05	07/20/2010 02:30pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 004	
MW-10	07/20/2010 02:40pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 005	
MW-11	07/20/2010 02:50pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 006	

Relinquished by: Fedex Date 7/23/10 Time 13:20

Relinquished by: Date Time

Special Reporting Requirements: Job#08.75116.0612 PO#08-10-0081

Received by:

Received by laboratory: A. Bakulich

Lab Notes:

Date 7/23/10 Time 15:20

Temp 3°C

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: atC Project # 4034799

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None Other

Thermometer Used 1B

Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3°C

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Optional: Proj. Due Date: Proj. Name:

Person examining contents:
Date: 7/23/10
Initials: _____

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 7/23/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 03, 2010

Mark Samblanet
ATC Associates
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: 0003642
Pace Project No.: 4038903

Dear Mark Samblanet:
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4038903

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4038903

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4038903001	Duplicate	Water	10/19/10 00:00	10/29/10 10:05
4038903002	TRIP BLANK	Water	10/19/10 00:00	10/29/10 10:05
4038903003	MW-08	Water	10/19/10 11:50	10/29/10 10:05
4038903004	MW-10	Water	10/19/10 12:00	10/29/10 10:05
4038903005	MW-04	Water	10/19/10 12:10	10/29/10 10:05
4038903006	MW-11	Water	10/19/10 12:20	10/29/10 10:05
4038903007	MW-05	Water	10/19/10 12:30	10/29/10 10:05

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4038903

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4038903001	Duplicate	EPA 8021	SES	6	PASI-G
4038903002	TRIP BLANK	EPA 8021	SES	6	PASI-G
4038903003	MW-08	EPA 8021	SES	6	PASI-G
4038903004	MW-10	EPA 8021	SES	6	PASI-G
4038903005	MW-04	EPA 8021	SES	6	PASI-G
4038903006	MW-11	EPA 8021	SES	6	PASI-G
4038903007	MW-05	EPA 8021	SES	6	PASI-G

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: Duplicate **Lab ID: 4038903001** Collected: 10/19/10 00:00 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**2050**	ug/L	25.0	25		11/01/10 21:30	71-43-2	
Ethylbenzene	**1300**	ug/L	25.0	25		11/01/10 21:30	100-41-4	
Methyl-tert-butyl ether	**2340**	ug/L	25.0	25		11/01/10 21:30	1634-04-4	
Toluene	**43.1**	ug/L	25.0	25		11/01/10 21:30	108-88-3	
Xylene (Total)	**5660**	ug/L	75.0	25		11/01/10 21:30	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120	25		11/01/10 21:30	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: TRIP BLANK **Lab ID: 4038903002** Collected: 10/19/10 00:00 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/01/10 14:13	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/01/10 14:13	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		11/01/10 14:13	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/01/10 14:13	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/01/10 14:13	1330-20-7	
a,a,a-Trifluorotoluene (S)	103	%	80-120	1		11/01/10 14:13	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: MW-08 **Lab ID: 4038903003** Collected: 10/19/10 11:50 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/01/10 14:38	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/01/10 14:38	100-41-4	
Methyl-tert-butyl ether	**6.8**	ug/L	1.0	1		11/01/10 14:38	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/01/10 14:38	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/01/10 14:38	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%	80-120	1		11/01/10 14:38	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: MW-10 **Lab ID: 4038903004** Collected: 10/19/10 12:00 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**91.5**	ug/L	1.0	1		11/01/10 15:04	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/01/10 15:04	100-41-4	
Methyl-tert-butyl ether	**123**	ug/L	1.0	1		11/01/10 15:04	1634-04-4	
Toluene	**1.1**	ug/L	1.0	1		11/01/10 15:04	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/01/10 15:04	1330-20-7	
a,a,a-Trifluorotoluene (S)	103	%	80-120	1		11/01/10 15:04	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: MW-04 **Lab ID: 4038903005** Collected: 10/19/10 12:10 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**2160**	ug/L	25.0	25		11/01/10 21:56	71-43-2	
Ethylbenzene	**1390**	ug/L	25.0	25		11/01/10 21:56	100-41-4	
Methyl-tert-butyl ether	**2440**	ug/L	25.0	25		11/01/10 21:56	1634-04-4	
Toluene	**49.0**	ug/L	25.0	25		11/01/10 21:56	108-88-3	
Xylene (Total)	**5960**	ug/L	75.0	25		11/01/10 21:56	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120	25		11/01/10 21:56	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: MW-11 **Lab ID: 4038903006** Collected: 10/19/10 12:20 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**927**	ug/L	50.0	50		11/01/10 22:22	71-43-2	
Ethylbenzene	**67.2**	ug/L	50.0	50		11/01/10 22:22	100-41-4	
Methyl-tert-butyl ether	**4610**	ug/L	50.0	50		11/01/10 22:22	1634-04-4	
Toluene	**63.5**	ug/L	50.0	50		11/01/10 22:22	108-88-3	
Xylene (Total)	**603**	ug/L	150	50		11/01/10 22:22	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120	50		11/01/10 22:22	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4038903

Sample: MW-05 **Lab ID: 4038903007** Collected: 10/19/10 12:30 Received: 10/29/10 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<5.0**	ug/L	5.0	5		11/01/10 20:13	71-43-2	
Ethylbenzene	**<5.0**	ug/L	5.0	5		11/01/10 20:13	100-41-4	
Methyl-tert-butyl ether	**626**	ug/L	5.0	5		11/01/10 20:13	1634-04-4	M1
Toluene	**<5.0**	ug/L	5.0	5		11/01/10 20:13	108-88-3	
Xylene (Total)	**<15.0**	ug/L	15.0	5		11/01/10 20:13	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%	80-120	5		11/01/10 20:13	98-08-8	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4038903

QC Batch: GCV/5816 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4038903001, 4038903002, 4038903003, 4038903004, 4038903005, 4038903006, 4038903007

METHOD BLANK: 377775 Matrix: Water
Associated Lab Samples: 4038903001, 4038903002, 4038903003, 4038903004, 4038903005, 4038903006, 4038903007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	11/01/10 12:49	
Ethylbenzene	ug/L	<1.0	1.0	11/01/10 12:49	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	11/01/10 12:49	
Toluene	ug/L	<1.0	1.0	11/01/10 12:49	
Xylene (Total)	ug/L	<3.0	3.0	11/01/10 12:49	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/01/10 12:49	

LABORATORY CONTROL SAMPLE & LCSD: 377776 377777

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.7	21.5	108	107	80-120	.9	20	
Ethylbenzene	ug/L	20	21.6	21.3	108	107	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.8	20.7	109	103	80-120	5	20	
Toluene	ug/L	20	21.6	21.4	108	107	80-120	.9	20	
Xylene (Total)	ug/L	60	64.2	63.6	107	106	80-120	.9	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 377866 377867

Parameter	Units	4038903007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<5.0	100	100	113	114	113	114	23-177	1	20	
Ethylbenzene	ug/L	<5.0	100	100	113	114	113	114	63-144	.6	20	
Methyl-tert-butyl ether	ug/L	626	100	100	757	738	130	111	80-120	3	20	M1
Toluene	ug/L	<5.0	100	100	113	113	113	113	53-164	.7	20	
Xylene (Total)	ug/L	<15.0	300	300	336	339	112	113	41-166	.7	20	
a,a,a-Trifluorotoluene (S)	%						102	101	80-120			

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QUALIFIERS

Project: 0003642
Pace Project No.: 4038903

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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KM

4038903

Page 1 of 1 **Chain-of-Custody-Record** **COC ID # 00022955**

TURN AROUND TIME: STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Eric M. Swaisgood		
PHONE #:	O:937-863-6513 x6513	FAX #:	Fax:
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	ATC Associates Inc. - Cleveland, OH
PROJECT MGR:	Mark Samblanet ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141-3219
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Derek Egli
SHIPPED VIA:	FedExp
TRACKING #:	

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	Duplicate	10/19/2010 12:00am	W	2	VOA	HCL	BTEX \ MTBE 8021B	2-40ml B
002	TRIP BLANK	10/19/2010 12:00am	W	1	VOA	HCL	BTEX \ MTBE 8021B	1-40ml B
003	MW-08	10/19/2010 11:50am	W	3	VOA	HCL	BTEX \ MTBE 8021B	3-40ml B
004	MW-10	10/19/2010 12:00pm	W	3	VOA	HCL	BTEX \ MTBE 8021B	
005	MW-04	10/19/2010 12:10pm	W	3	VOA	HCL	BTEX \ MTBE 8021B	
006	MW-11	10/19/2010 12:20pm	W	3	VOA	HCL	BTEX \ MTBE 8021B	
007	MW-05	10/19/2010 12:30pm	W	3	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by:		Date	Time	Received by:	Date	Time
Relinquished by:	Fed Ex	Date 10/20/10	Time 1005	Received by laboratory: KM 10/21/10	Date 10/21/10	Time 1005
Special Reporting Requirements: Job#08.75116.0612 PO#08-10-0109				Lab Notes:	Temp 3c	

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: ATC Associates Project # 40389403

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None Other

Optional
Proj. Due Date:
Proj. Name:

Thermometer Used VB

Type of Ice: (Wet) Blue Dry None

☑ Samples on ice, cooling process has begun

Cooler Temperature 3°C

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 10/29/10
Initials: KM

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 10/29/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

ATC ASSOCIATES INC.
Engineering Individual Solutions

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

GROUNDWATER SAMPLING REPORT
(Second Event)

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Eric M. Swaisgood
Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

RECEIVED
AUG 20 2010
STATE FIRE MARSHAL

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0612

Colleen Varga
Staff Geologist

Travis S. Bukach, CHMM
Project Manager

August 18, 2010

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Appendix B Purge/Well Development Logs

Appendix C Groundwater Analytical Laboratory Report and Chain-of-Custody Records

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct groundwater sampling activities at SSA Store #3642 located at 939 Dixie Highway, Rossford (Wood County), Ohio (**Figures 1 & 2**). This report summarized the groundwater monitoring and sampling activities conducted at the site on April 28, 2010, in accordance with the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* (dated March 31, 2009) and the PUSTRCB pre-approval **(Appendix A)**. Please reference **Tables 1 & 2** for historical soil data collected during the assessment phase for this site.

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18.0" North, 83° 33' 44.0" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway (State Route 65) and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio **(Figure 2)**. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

BUSTR issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

Historical soil and groundwater analytical result tables have been included as **Tables 1** through **4** for reference.

3.0 SAMPLING METHODOLOGY AND RESULTS

3.1 Groundwater Monitoring and Sampling

Depth to fluid measurements and groundwater samples were collected from MW-1 through MW-11 on April 28, 2010. Depth to fluid measurements were collected with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**). Based on the measured groundwater elevations, groundwater movement across the site is to the southwest which is consistent with historical flow

direction (**Figure 4).** Clean, nitrile gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination. Prior to sampling, the wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. Dedicated disposable bailers were used for each well to prevent possible cross-contamination. The wells were then allowed to recharge before water samples were collected. A purge log has been included as **Appendix B**.

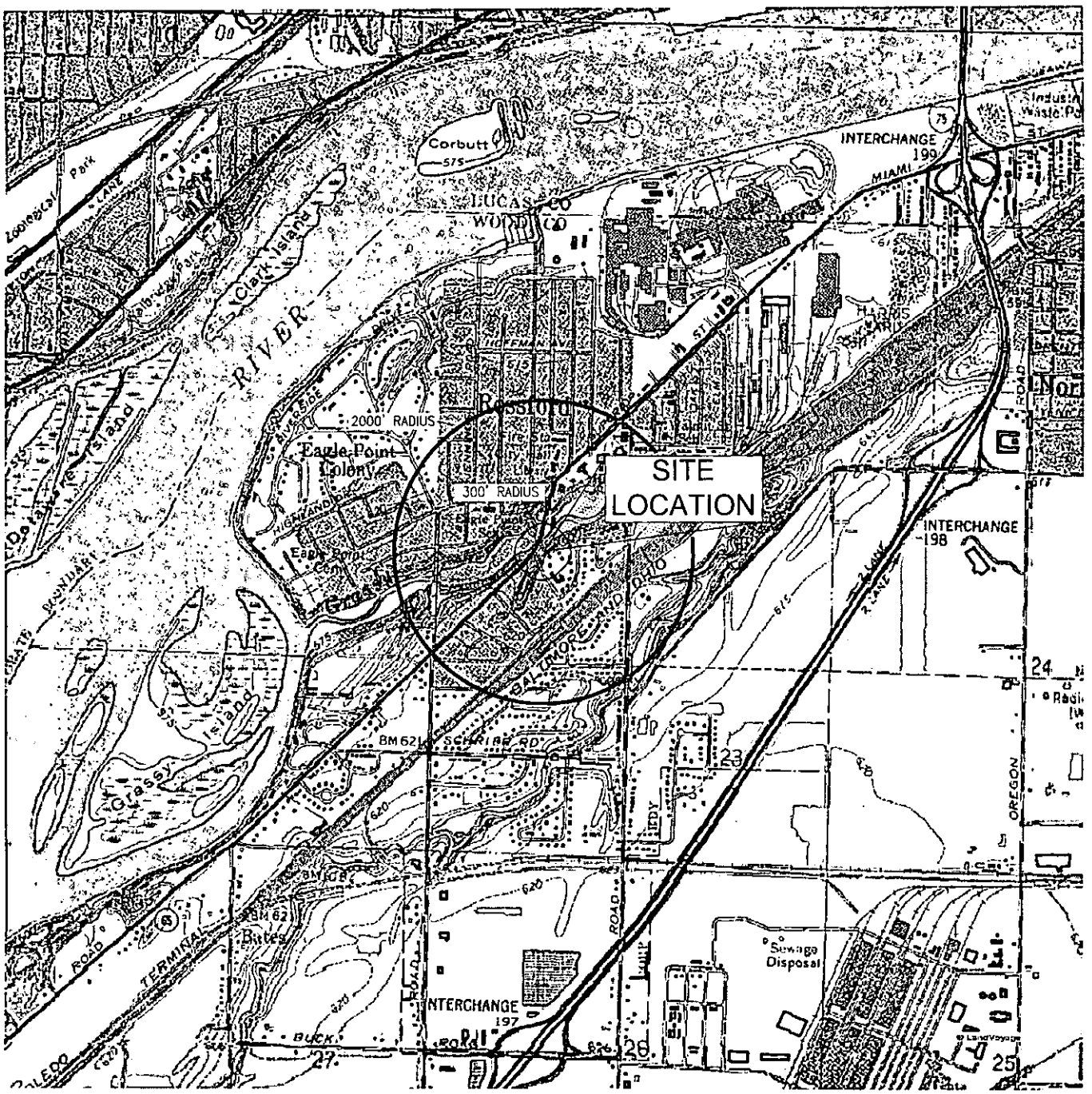
Water samples were collected using the dedicated bailers, and divided between three laboratory-supplied 40-milliliter vials. A trip blank and a duplicate sample from MW-4 were also submitted for analysis. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Pace Analytical Laboratories (Pace) in Green Bay, Wisconsin, and analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by United States Environmental Protection Agency (U.S. EPA) Method 8021B. The results of the laboratory analysis have been summarized in **Table 3 & 4** and are illustrated on **Figure 4**. The complete laboratory report has been included in **Appendix C**.

3.2 Analytical Results

Laboratory analytical results for groundwater samples collected on April 28, 2010 indicate MTBE concentrations in MW-4, MW-5, MW-10, and MW-11 continue to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern concentrations remain below their respective SSTLs.

4.0 CONCLUSIONS

This completes the second of four quarterly groundwater sampling events as outlined in the site-specific Monitoring Only Plan outlined in the previously submitted *Interim Response Action (IRA) Notification Report* (dated March 31, 2009). ATC recommends continuing quarterly groundwater sampling in order to determine MTBE concentration trends. If a decreasing trend can be shown, then a Tier 3 Work Plan will be prepared outlining a strategy to develop a site specific degradation rate for MTBE which will be used to develop a new site specific target level for MTBE using the BIOSCREEN fate and transport model.



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

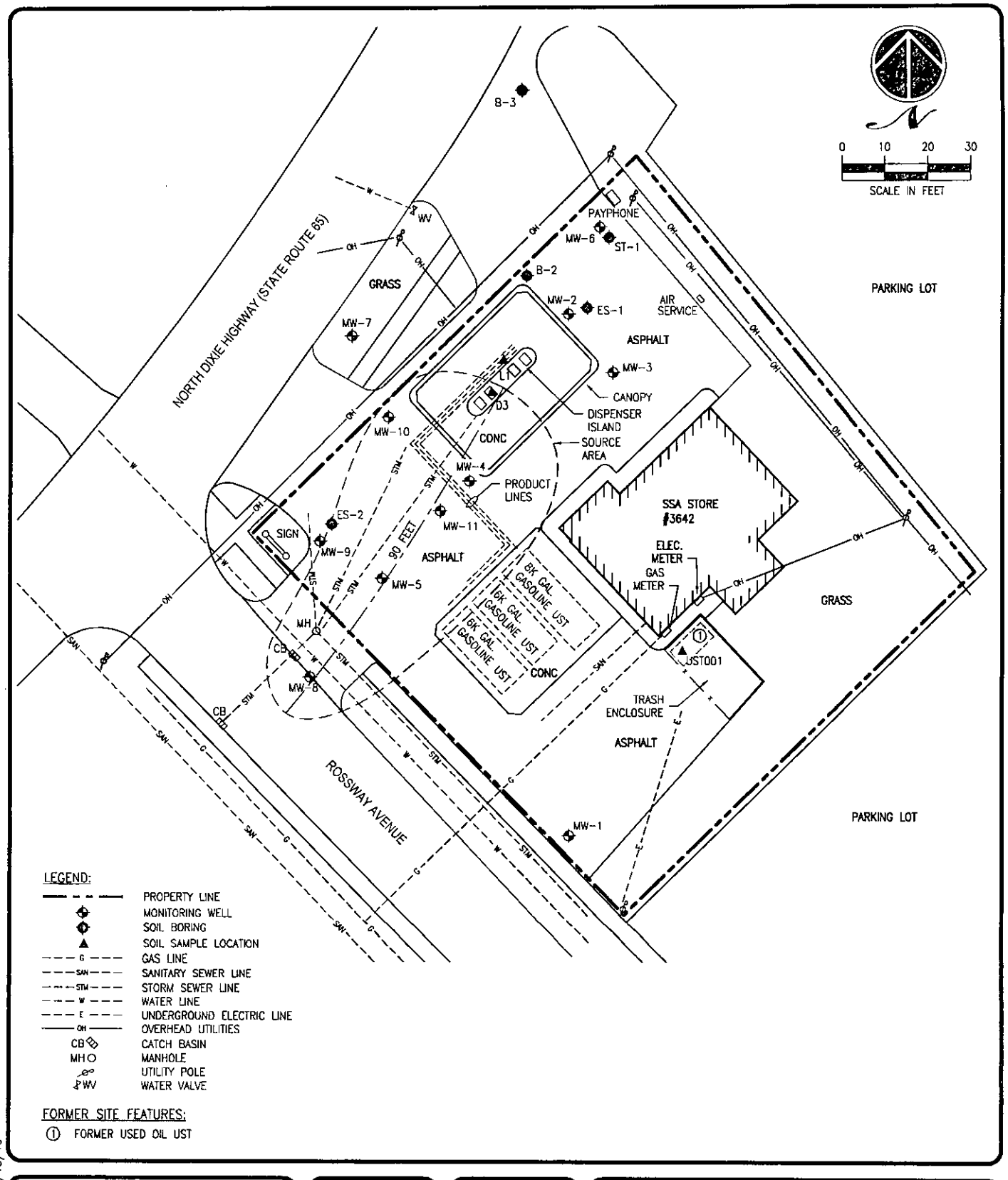
VATC ASSOCIATES INC.

DATE: 11/9/07	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: TSB	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...SSA3642-SLM.DWG 11/10/06



3/18/10

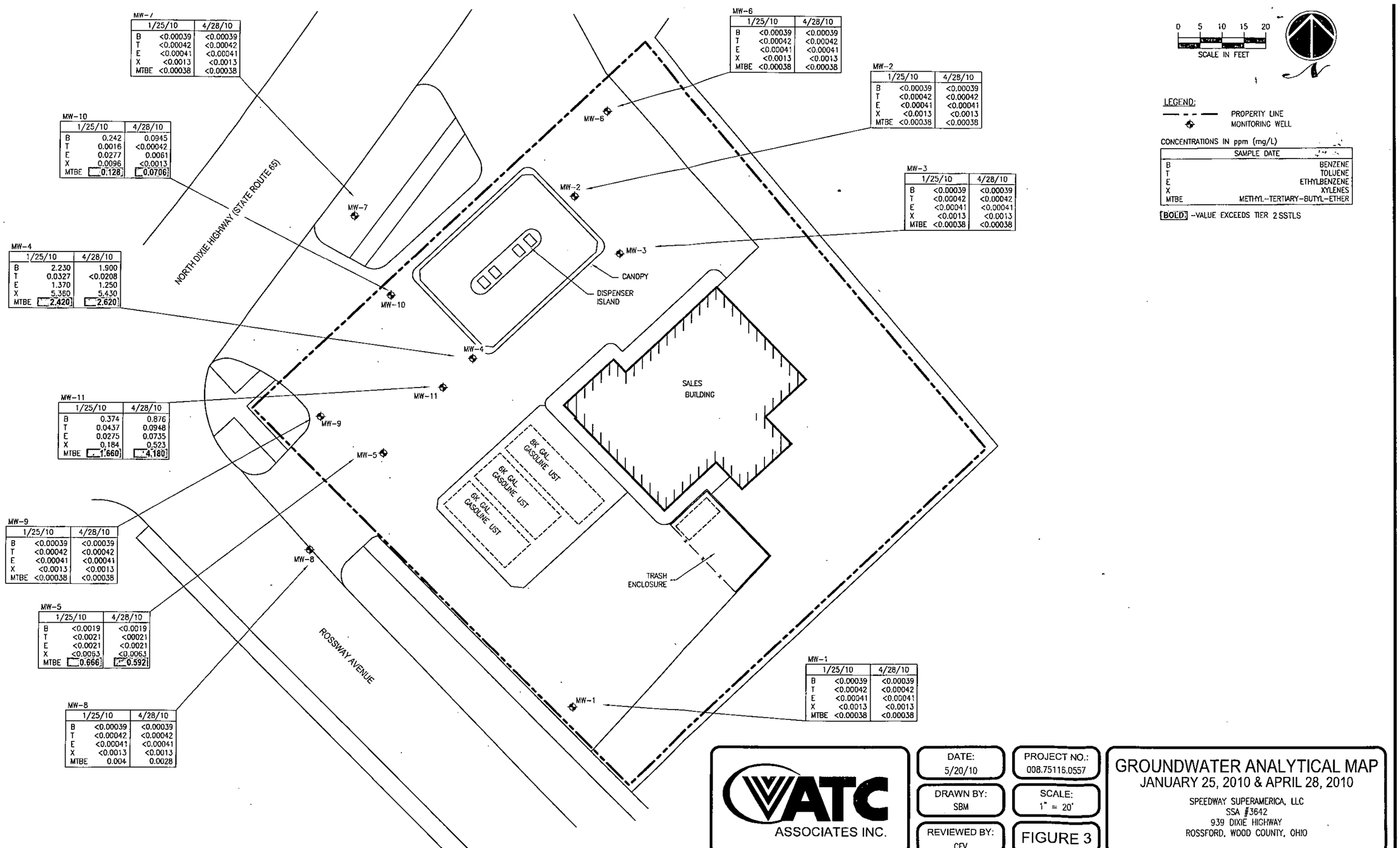
...SSA3642-04.dwg

VATC ASSOCIATES INC.

DATE: 5/20/10	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



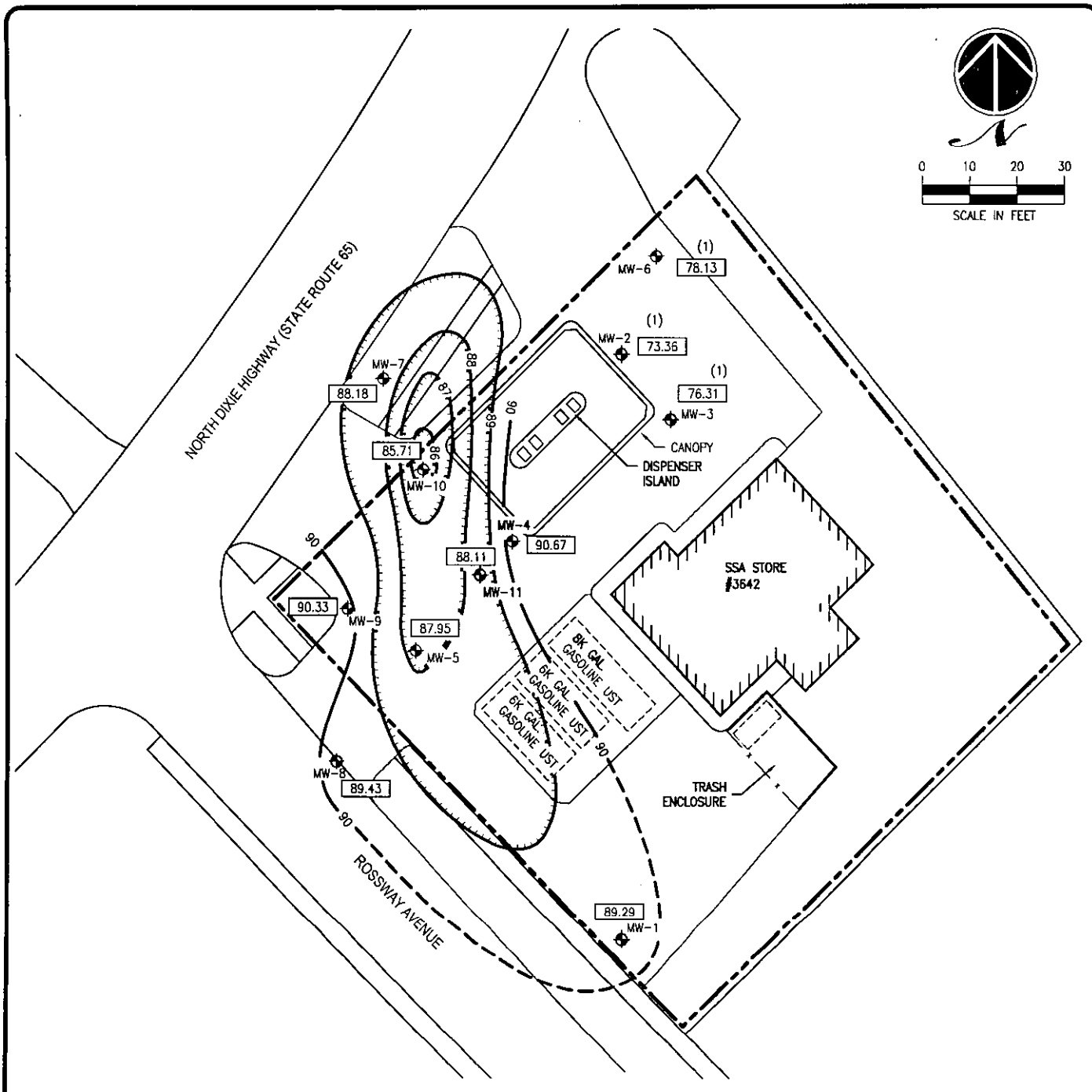
...SSA3635-04.dwg 3/18/10

ATC ASSOCIATES INC.

DATE: 5/20/10	PROJECT NO.: 008.75116.0557
DRAWN BY: SBM	SCALE: 1" = 20'
REVIEWED BY: CEV	FIGURE 3

GROUNDWATER ANALYTICAL MAP
JANUARY 25, 2010 & APRIL 28, 2010

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



3/18/10

...SSA3642-04.dwg

VATC ASSOCIATES INC.

DATE: 8/17/10	PROJECT NO.: 08.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CEV	FIGURE 4

POTENTIOMETRIC SURAFCE MAP
APRIL 28, 2010

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.012	< 0.008	< 0.011	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.012	< 0.008	< 0.011	< 0.028	< 0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	01/25/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								TRIP BLANK	04/28/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Remediation System Influent											**NA**	**NA**	**NA**	**NA**	**NA**
INFLUENT								INFLUENT	10/07/2009	14:00	< 0.230	< 0.360	< 0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	< 0.230	< 0.360	< 0.400	< 1.100	51.400
								INFLUENT	12/21/2009	15:00	< 0.390	< 0.420	< 0.410	< 1.300	44.600
Action Levels - Remediation System Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
EFFLUENT								EFFLUENT	10/07/2009	14:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	11/05/2009	18:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	12/21/2009	15:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								EFFLUENT	01/04/2010	18:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	100.8	89.29	11.51			MW-01	04/28/2010	14:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										
	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.19	73.36	23.83			MW-02	04/28/2010	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	98.44	76.31	22.13			MW-03	04/28/2010	15:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	**2420.000**
	04/28/2010	00:00	97.98	90.67	7.31			MW-04	04/28/2010	15:30	1900.000	< 20.800	1250.000	5430.000	**2620.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	< 1.900	< 2.100	< 2.100	< 6.300	**666.000**
	04/28/2010	00:00	96.47	87.95	8.52			MW-05	04/28/2010	15:50	< 1.900	< 2.100	< 2.100	< 6.300	**592.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										
	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	96.7	78.13	18.57			MW-06	04/28/2010	15:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	97.09	90.33	6.76			MW-09	04/28/2010	14:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	**128.000**
	04/28/2010	00:00	96.52	85.71	10.81			MW-10	04/28/2010	14:40	94.500	< 0.420	6.100	< 1.300	**70.600**
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	**1660.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-11	04/28/2010	00:00	96.63	88.11	8.52			MW-11	04/28/2010	15:40	876.000	94.800	73.500	523.000	**4180.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
	04/28/2010	00:00	95.7	88.18	7.52			MW-07	04/28/2010	14:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-08	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	< 0.390	< 0.420	< 0.410	< 1.300	4.000
	04/28/2010	00:00	98.78	89.43	9.35			MW-08	04/28/2010	14:20	< 0.390	< 0.420	< 0.410	< 1.300	2.800
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**NA**	**NA**	**NA**	**NA**	**NA**
MID CARBON								MID CARBON	10/07/2009	14:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	11/05/2009	18:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	12/21/2009	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Air Stripper Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	< 0.230	< 0.360	< 0.400	< 1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	< 0.230	< 0.360	< 0.400	< 1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	< 0.390	< 0.420	< 0.410	< 1.300	1.300

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	NA	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,I)perylene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	NA	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	NA	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	NA	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	NA	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	NA	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	NA	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A

GOVERNMENT CORRESPONDENCE

Petroleum Underground Storage Tank
Release Compensation Board
P.O. Box 163188 • Columbus, Ohio 43216-3188
Phone: (614) 752-8963 • Fax: (614) 752-8397
www.petroboard.com

June 26, 2009

RECEIVED
Environmental
JUN 30 2009
SSA

Mr. Adam Campbell
Speedway SuperAmerica LLC
500 Speedway Drive
Enon, Ohio 45323

CLAIM NUMBER: 18451-152/02/22/06
SFM RELEASE NUMBER: 7800079-000002
RELEASE SITE ADDRESS:
SSA Facility #3546
7257 Sharon-Warren Road
Brookfield, OH 44403
MP SUBMISSION DATE: Sept. 15, 2008

Dear Mr. Campbell:

The Monitoring Plan (MP) for the above referenced site and information received from BUSTR on June 23, 2009 have been reviewed. The recommended work includes groundwater sampling of four wells for three quarters and sampling all ten wells in the fourth quarter with associated reporting. The cost estimate totals $13,483.

The overall cost, the number of field labor hours and the report preparation costs exceed what are typical for performing similar work based on the Fund's experience. Also, a breakdown of this cost estimate included amounts for the "*total expenses*" that could not be reconciled. In order to respond to your request, **an amount not to exceed $9,500 is pre-approved.**

When a claim is filed, please be sure the invoices are broken down on a time and material basis and you have included all subcontractors' (e.g., laboratory, equipment, material suppliers, etc.) invoices. Only those actual costs which are documented and eligible in accordance with the Board's rules will be reimbursed.

Only the work described in the MP and the submitted cost estimate have been reviewed. If this MP is revised in any way, please contact this office immediately. **MP implementation costs submitted in a claim without pre-approval will be reimbursed at no greater than 50% of the usual, customary and reasonable costs of the least expensive remedial alternative based on the Fund's experience.**

If you have any questions or need further information, please contact Michael Grube or me at 1-800-224-4659 or 614-752-8963.

Sincerely,

Starr Richmond

Starr J. Richmond
Director
Financial Assurance Fund

cc: Mark Samblanet, ATC Associates, Inc., 10020 Brecksville Road, Brecksville, OH 44141

Mitch Sweazy, BUSTR

APPENDIX B

PURGE / WELL DEVELOPMENT LOGS

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	04/28/10

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.51	NA	22.39	3.6	10.9	Purged Dry	14:10	
MW-2	2	39.7	23.83	NA	15.87	2.6	7.8	7.8	15:10	
MW-3	2	40.5	22.13	NA	18.37	3.0	9.0	9	15:20	
MW-4	2	15.7	7.31	NA	8.39	1.4	4.1	4.1	15:30	Duplicate
MW-5	2	31	8.52	NA	22.48	3.7	11.0	Purged Dry	15:50	
MW-6	2	37.6	18.57	NA	19.03	3.1	9.3	Purged Dry	15:00	
MW-7	2	18.7	7.52	NA	11.18	1.8	5.5	Purged Dry	14:50	
MW-8	2	15	9.35	NA	5.65	0.9	2.8	2.8	14:20	
MW-9	2	14.3	6.76	NA	7.54	1.2	3.7	Purged Dry	14:30	
MW-10	2	21.6	10.81	NA	10.79	1.8	5.3	Purged Dry	14:40	
MW-11	2	22	8.52	NA	13.48	2.2	6.6	6.6	15:40	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

APPENDIX C

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 06, 2010

Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 441413219

RE: Project: 0003642
Pace Project No.: 4031295

Dear Travis Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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ACCREDITED IN ACCORDANCE WITH NELAC
nelac

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0003642
Pace Project No.: 4031295

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
1241 Bellevue Street Green Bay, WI 54302
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
New York Certification #: 11887

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SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4031295

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4031295001	Duplicate	Water	04/28/10 00:00	04/30/10 09:55
4031295002	TRIP BLANK	Water	04/28/10 00:00	04/30/10 09:55
4031295003	MW-01	Water	04/28/10 14:10	04/30/10 09:55
4031295004	MW-08	Water	04/28/10 14:20	04/30/10 09:55
4031295005	MW-09	Water	04/28/10 14:30	04/30/10 09:55
4031295006	MW-10	Water	04/28/10 14:40	04/30/10 09:55
4031295007	MW-07	Water	04/28/10 14:50	04/30/10 09:55
4031295008	MW-06	Water	04/28/10 15:00	04/30/10 09:55
4031295009	MW-02	Water	04/28/10 15:10	04/30/10 09:55
4031295010	MW-03	Water	04/28/10 15:20	04/30/10 09:55
4031295011	MW-04	Water	04/28/10 15:30	04/30/10 09:55
4031295012	MW-11	Water	04/28/10 15:40	04/30/10 09:55
4031295013	MW-05	Water	04/28/10 15:50	04/30/10 09:55

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4031295

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4031295001	Duplicate	EPA 8021	SES	6
4031295002	TRIP BLANK	EPA 8021	SES	6
4031295003	MW-01	EPA 8021	SES	6
4031295004	MW-08	EPA 8021	SES	6
4031295005	MW-09	EPA 8021	SES	6
4031295006	MW-10	EPA 8021	SES	6
4031295007	MW-07	EPA 8021	SES	6
4031295008	MW-06	EPA 8021	SES	6
4031295009	MW-02	EPA 8021	SES	6
4031295010	MW-03	EPA 8021	SES	6
4031295011	MW-04	EPA 8021	SES	6
4031295012	MW-11	EPA 8021	SES	6
4031295013	MW-05	EPA 8021	SES	6

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: Duplicate **Lab ID: 4031295001** Collected: 04/28/10 00:00 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**1970**	ug/L	50.0	50		05/04/10 01:57	71-43-2	
Ethylbenzene	**1330**	ug/L	50.0	50		05/04/10 01:57	100-41-4	
Methyl-tert-butyl ether	**2570**	ug/L	50.0	50		05/04/10 01:57	1634-04-4	
Toluene	**<50.0**	ug/L	50.0	50		05/04/10 01:57	108-88-3	
Xylene (Total)	**5720**	ug/L	150	50		05/04/10 01:57	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%-	80-120	50		05/04/10 01:57	98-08-8	D3

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(920)469-2436

ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: TRIP BLANK **Lab ID: 4031295002** Collected: 04/28/10 00:00 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/04/10 12:19	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/10 12:19	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/04/10 12:19	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/10 12:19	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/10 12:19	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%-	80-120	1		05/04/10 12:19	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-01 **Lab ID: 4031295003** Collected: 04/28/10 14:10 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/04/10 10:37	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/10 10:37	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/04/10 10:37	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/10 10:37	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/10 10:37	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%-	80-120	1		05/04/10 10:37	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-08 **Lab ID: 4031295004** Collected: 04/28/10 14:20 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/04/10 11:03	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/10 11:03	100-41-4	
Methyl-tert-butyl ether	**2.8**	ug/L	1.0	1		05/04/10 11:03	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/10 11:03	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/10 11:03	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%-	80-120	1		05/04/10 11:03	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-09 **Lab ID: 4031295005** Collected: 04/28/10 14:30 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/04/10 11:28	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/10 11:28	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/04/10 11:28	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/10 11:28	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/10 11:28	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%-	80-120	1		05/04/10 11:28	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-10 **Lab ID: 4031295006** Collected: 04/28/10 14:40 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**94.5**	ug/L	1.0	1		05/04/10 11:54	71-43-2	
Ethylbenzene	**6.1**	ug/L	1.0	1		05/04/10 11:54	100-41-4	
Methyl-tert-butyl ether	**70.6**	ug/L	1.0	1		05/04/10 11:54	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/10 11:54	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/10 11:54	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%-	80-120	1		05/04/10 11:54	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-07 **Lab ID: 4031295007** Collected: 04/28/10 14:50 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/03/10 21:16	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/03/10 21:16	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/03/10 21:16	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/03/10 21:16	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/03/10 21:16	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%-	80-120	1		05/03/10 21:16	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-06 **Lab ID: 4031295008** Collected: 04/28/10 15:00 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/03/10 21:41	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/03/10 21:41	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/03/10 21:41	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/03/10 21:41	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/03/10 21:41	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%-	80-120	1		05/03/10 21:41	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-02 **Lab ID: 4031295009** Collected: 04/28/10 15:10 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/03/10 22:07	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/03/10 22:07	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/03/10 22:07	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/03/10 22:07	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/03/10 22:07	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%-	80-120	1		05/03/10 22:07	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-03 **Lab ID: 4031295010** Collected: 04/28/10 15:20 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		05/03/10 22:33	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/03/10 22:33	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		05/03/10 22:33	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		05/03/10 22:33	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/03/10 22:33	1330-20-7	
a,a,a-Trifluorotoluene (S)	103	%-	80-120	1		05/03/10 22:33	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-04 **Lab ID: 4031295011** Collected: 04/28/10 15:30 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**1900**	ug/L	50.0	50		05/04/10 02:22	71-43-2	
Ethylbenzene	**1250**	ug/L	50.0	50		05/04/10 02:22	100-41-4	
Methyl-tert-butyl ether	**2620**	ug/L	50.0	50		05/04/10 02:22	1634-04-4	
Toluene	**<50.0**	ug/L	50.0	50		05/04/10 02:22	108-88-3	
Xylene (Total)	**5430**	ug/L	150	50		05/04/10 02:22	1330-20-7	
a,a,a-Trifluorotoluene (S)	103	%-	80-120	50		05/04/10 02:22	98-08-8	D3

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-11 **Lab ID: 4031295012** Collected: 04/28/10 15:40 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**876**	ug/L	25.0	25		05/04/10 02:48	71-43-2	
Ethylbenzene	**73.5**	ug/L	25.0	25		05/04/10 02:48	100-41-4	
Methyl-tert-butyl ether	**4180**	ug/L	25.0	25		05/04/10 02:48	1634-04-4	
Toluene	**94.8**	ug/L	25.0	25		05/04/10 02:48	108-88-3	
Xylene (Total)	**523**	ug/L	75.0	25		05/04/10 02:48	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%-	80-120	25		05/04/10 02:48	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4031295

Sample: MW-05 **Lab ID: 4031295013** Collected: 04/28/10 15:50 Received: 04/30/10 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<5.0**	ug/L	5.0	5		05/05/10 08:17	71-43-2	
Ethylbenzene	**<5.0**	ug/L	5.0	5		05/05/10 08:17	100-41-4	
Methyl-tert-butyl ether	**592**	ug/L	5.0	5		05/05/10 08:17	1634-04-4	
Toluene	**<5.0**	ug/L	5.0	5		05/05/10 08:17	108-88-3	
Xylene (Total)	**<15.0**	ug/L	15.0	5		05/05/10 08:17	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%-	80-120	5		05/05/10 08:17	98-08-8	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4031295

QC Batch: GCV/4979 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4031295001, 4031295002, 4031295003, 4031295004, 4031295005, 4031295006, 4031295007, 4031295008, 4031295009, 4031295010, 4031295011, 4031295012, 4031295013

METHOD BLANK: 294979 Matrix: Water
Associated Lab Samples: 4031295001, 4031295002, 4031295003, 4031295004, 4031295005, 4031295006, 4031295007, 4031295008, 4031295009, 4031295010, 4031295011, 4031295012, 4031295013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	05/03/10 19:59	
Ethylbenzene	ug/L	<1.0	1.0	05/03/10 19:59	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	05/03/10 19:59	
Toluene	ug/L	<1.0	1.0	05/03/10 19:59	
Xylene (Total)	ug/L	<3.0	3.0	05/03/10 19:59	
a,a,a-Trifluorotoluene (S)	%-	102	80-120	05/03/10 19:59	

LABORATORY CONTROL SAMPLE & LCSD: 294980 294981

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.9	19.7	100	98	80-120	1	20	
Ethylbenzene	ug/L	20	20.6	20.4	103	102	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.1	18.1	96	91	80-120	5	20	
Toluene	ug/L	20	20.2	20.0	101	100	80-120	1	20	
Xylene (Total)	ug/L	60	61.9	61.2	103	102	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%-				101	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 295102 295103

Parameter	Units	4031295012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	876	500	500	1400	1360	104	97	28-167	3	20	
Ethylbenzene	ug/L	73.5	500	500	604	588	106	103	51-151	3	20	
Methyl-tert-butyl ether	ug/L	4180	500	500	4630	4480	91	61	77-120	3	20	
Toluene	ug/L	94.8	500	500	615	596	104	100	54-151	3	20	
Xylene (Total)	ug/L	523	1500	1500	2100	2040	105	101	29-164	3	20	
a,a,a-Trifluorotoluene (S)	%-						100	99	80-120			

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QUALIFIERS

Project: 0003642
Pace Project No.: 4031295

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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Chain-of-Custody-Record

COC ID # 00021286 4031295

VMLN

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Jennifer K. Schoenlein
PHONE #: O:937-864-3000 x7647 FAX #: Fax: 937-863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Derek Egli
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
Duplicate	04/28/2010 12:00am	W	2	VOA	HCL	BTEX \ MTBE 8021B 001	
TRIP BLANK	04/28/2010 12:00am	W	1	VOA	HCL	BTEX \ MTBE 8021B 002	
MW-01	04/28/2010 02:10pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 003	
MW-08	04/28/2010 02:20pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 004	
MW-09	04/28/2010 02:30pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 005	
MW-10	04/28/2010 02:40pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 006	
MW-07	04/28/2010 02:50pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 007	
MW-06	04/28/2010 03:00pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 008	
MW-02	04/28/2010 03:10pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 009	
MW-03	04/28/2010 03:20pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 010	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date 4/30/10	Time 9:55	Received by laboratory: [illegible] Pace	Date 4/30/10	Time 9:55
Special Reporting Requirements: Job#08.75116.0612 PO#08-10-0039			Lab Notes:	Temp	3°C

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00021286 4031295

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Jennifer K. Schoenlein		
PHONE #:	O:937-864-3000 x7647	FAX #:	Fax: 937-863-6078
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	ATC Associates Inc. - Cleveland, OH
PROJECT MGR:	Travis Bukach ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Derek Egli
SHIPPED VIA:	FedExp
TRACKING #:	

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
MW-04	04/28/2010 03:30pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 001	
MW-11	04/28/2010 03:40pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 002	
MW-05	04/28/2010 03:50pm	W	3	VOA	HCL	BTEX \ MTBE 8021B 003	

Relinquished by:		Date		Time	Received by:	Date	Time
Relinquished by: Tidd		Date 4/30/10		Time 9:55	Received by laboratory: J Bullock	Date 4/30/10	Time 9:55
Special Reporting Requirements: Job#08.75116.0612 PO#08-10-0039					Lab Notes: Past	Temp	3°C

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: ACC Project # 4031295

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None Other

Thermometer Used VB Type of Ice: Wet Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3°C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Optional: Proj. Due Date: Proj. Name:

Person examining contents:
Date: CB 4/30/10
Initials: _____

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 4/30/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

RECEIVED
AUG 25 2015
SEC/BUSTR

Speedway LLC
500 Speedway Drive
Enon, OH 45323
Telephone 937-864-3000

FedEx Express Saver – 7743 2797 6900

August 19, 2015

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068-9009

RE: Monitoring Well Abandonment Report
Speedway Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
BUSTR Release #: 87000087-N00002

Dear Mr. Krueger:

Please find enclosed one (1) copy of the *Well Abandonment Report* as prepared by our consultant, Cardno (ATC Group Services, Inc., D.B.A. Cardno ATC), for the above referenced facility. The enclosed report presents a summary of the monitoring well abandonment activities conducted on July 1 and 2, 2015 by SCS Environmental Contracting.

If you have any questions or concerns, please do not hesitate to contact me at (937) 863-6041.

Sincerely,

SPEEDWAY LLC

Samantha LaLonde
Environmental Representative

CC: Jim Detgen (Senior Project Manager) – Cardno ATC
Bethany Weeder (Project Manager) -- Cardno ATC
Andy Opsitnick (Geologist) – Cardno ATC

Copies of well log sealing reports
Wood County Health Department: 1840 E Gypsy Lane Road, Bowling Green, OH 43402

RECEIVED
AUG 25 2015
SFM/BUSTR

Cardno
Shaping the Future

August 19, 2015

Cardno ATC

8100 Snowville Road
Brecksville, OH 44141

Phone +1 440 838 7177
Fax +1 440 838 7181
www.cardno.com

www.cardnoatc.com

Ms. Samantha LaLonde
Environmental Respresentative
Speedway LLC
Environmental Department
500 Speedway Drive
Enon, Ohio 45323

Subject: Monitoring Well Abandonment Activities
Speedway Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002

Dear Ms. LaLonde:

Cardno (ATC Group Services, Inc., D.B.A. Cardno ATC) is providing Speedway LLC (Speedway) with this letter report documenting the monitoring well abandonment activities that occurred on July 1 and 2, 2015 at the above referenced site. Eleven (11) monitoring wells were abandoned following receipt of the No Further Action (NFA) status documentation letter dated May 22, 2015 (**Attachment A**) from the Bureau of Underground Storage Tank Regulations (BUSTR). The locations of the abandoned monitoring wells and facility structures are identified in the sealing reports (**Attachment B**).

On July 1 and 2, 2015, SCS Environmental Contracting abandoned 11 monitoring wells (MW-01 through MW-11). The monitoring wells were abandoned by pulling the polyvinyl chloride (PVC) riser and screen from the subsurface and pouring bentonite chips to approximately one (1) foot below surface grade. The ground surface was completed with a material to match the surrounding area. Before and after site photographs of the monitoring wells have been included as **Attachment C**. A site location map is included as **Figure 1** and a site map has been included as **Figure 2.**

In addition, after completion of the well abandonment, water well sealing reports and well abandonment records were prepared for the 11 monitoring wells for submission to the Ohio Department of Natural Resources (ODNR) (**Attachment B**).

Cardno
Shaping the Future

If you have any questions or concerns, please do not hesitate to contact me at (440) 838-7177.

Sincerely,

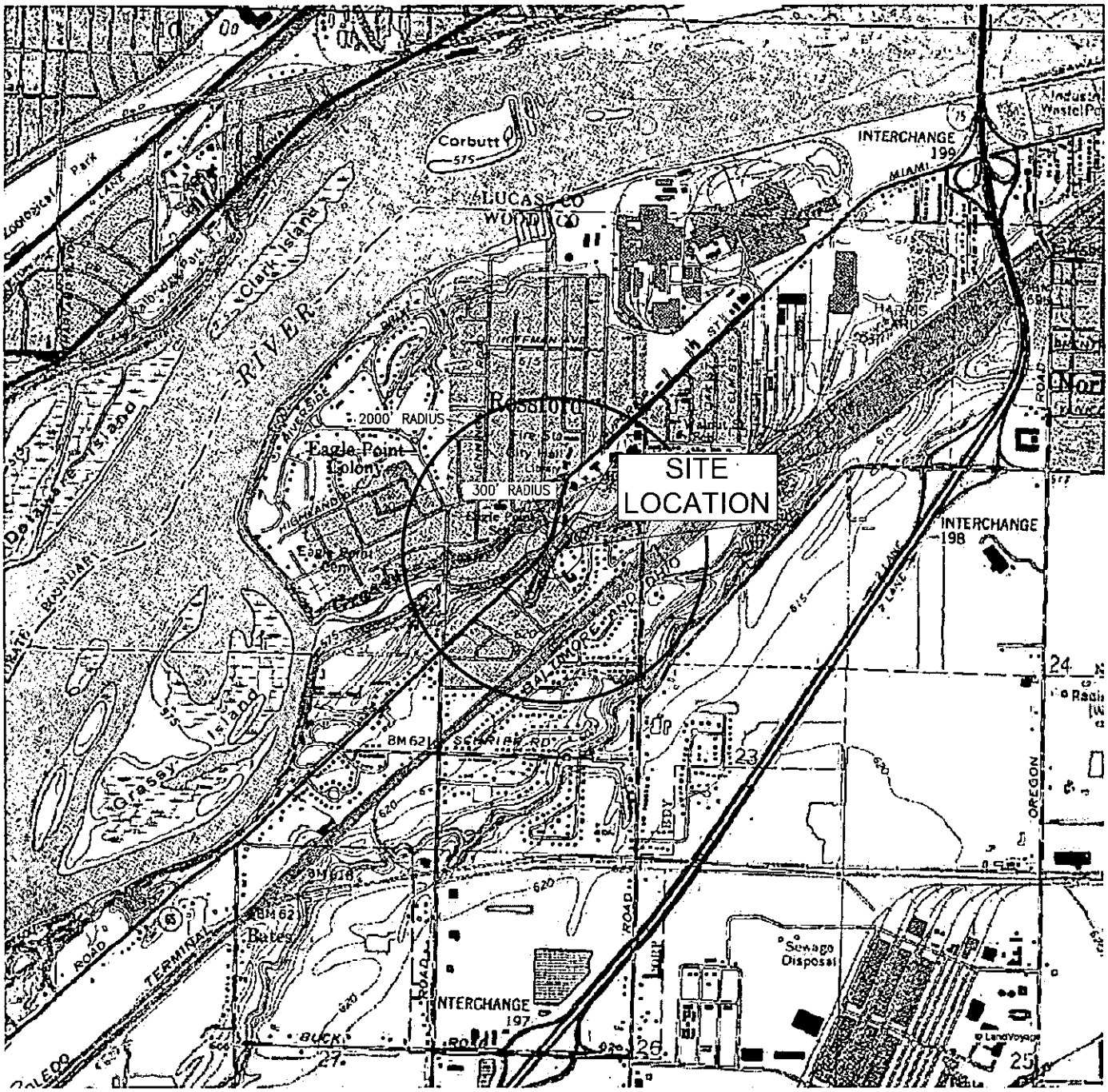
Andy Opsitnick
Geologist
for Cardno ATC
Direct Line +1 440 262-2376
Email: andy.opsitnick@cardno.com

Bethany Weeder
Project Geologist
for Cardno ATC
Direct Line +1 440 262-2377
Email: bethany.weeder@cardno.com

Enc: Correspondence, Well Logs, Photo Log

cc: Remediation File

File: 3642 Cardno Report Well Aband



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

N

1/9/15

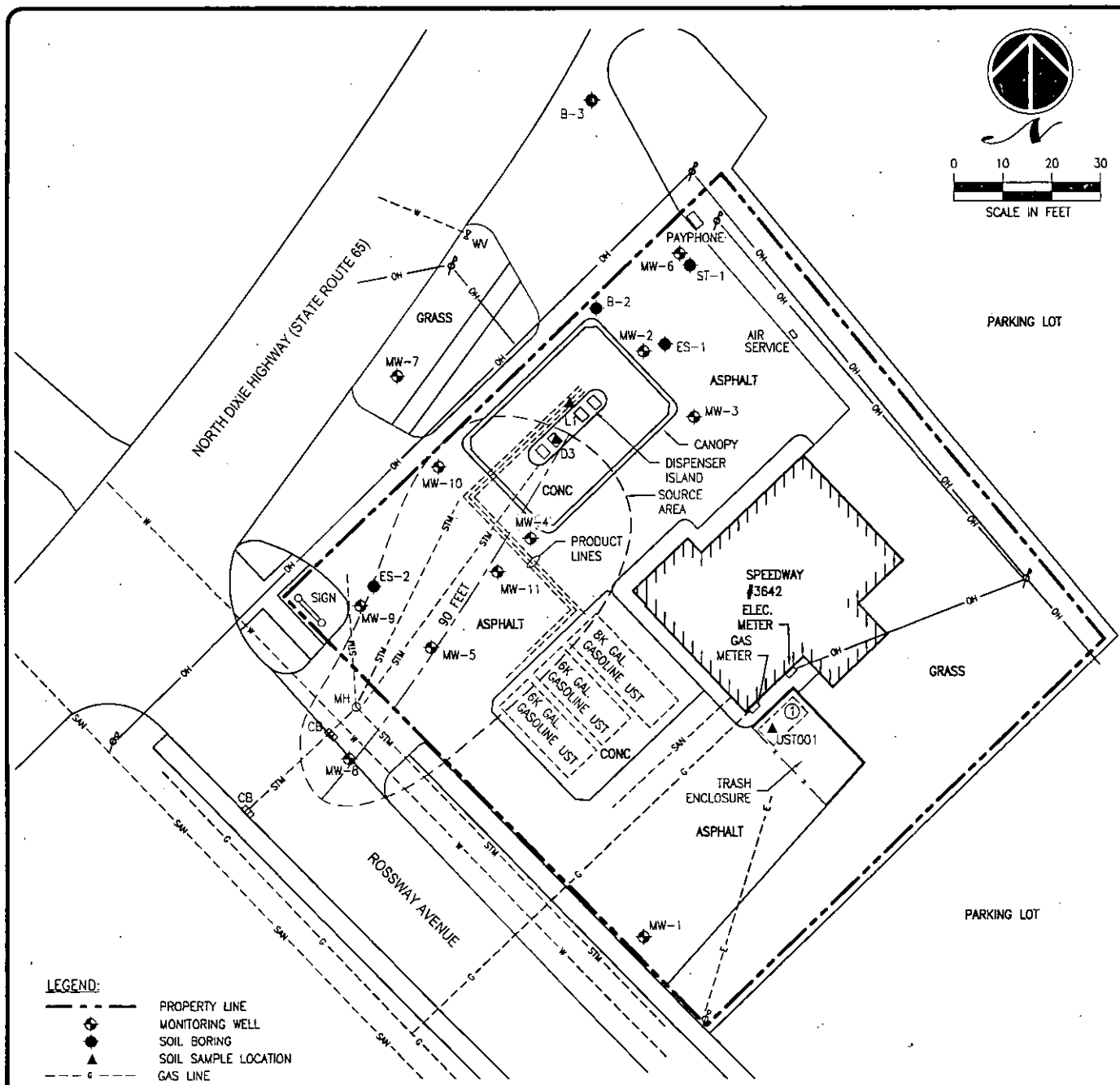
...Speedway3642-SLM.dwg

Cardno
Shaping the Future
8100 SNOWVILLE ROAD
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 1/9/15	PROJECT NO.: ..
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: CH	FIGURE 1

SITE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD UTILITIES
- CB CATCH BASIN
- MH MANHOLE
- UTILITY POLE
- WV WATER VALVE

FORMER SITE FEATURES:

① FORMER USED OIL UST

All Monitoring wells were abandoned on July 1 and 2, 2015

1/9/15

Speedway3642-02.dwg

Cardno
Shaping the Future
8100 SNOWVILLE ROAD
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 1/9/15	PROJECT NO.:
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CH	FIGURE 2

SITE MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

ATTACHMENT A

BUSTR CORRESPONDENCE

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
Jacqueline T. Williams, Director

received
5/29/15

May 22, 2015

RYAN SABOL
ENVIRONMENTAL REP.
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 PETROLEUM RELEASE
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: NO FURTHER ACTION STATUS REGARDING CORRECTIVE ACTION REQUIREMENTS

Dear Mr. Sabol:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this release. Based on the assumptions used in the tier evaluation report, BUSTR requires no further action (NFA) involving corrective action under Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Scott R. Sigler
Corrective Action Supervisor

xc: Site File
Kimberly Kroenke - Cardno ATC
Donna Kestler - PUSTRCB

ATTACHMENT B
WELL SEALING REPORTS

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309479

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City PRSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.604946 Longitude -83.56238

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION

ODNR Well Log Number Project Well ID MW-1

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 34 ft. Static Water Level 10.8 ft.

Borehole Depth 34 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 24 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 34 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED.

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM 1

309481

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft. OR Latitude/Longitude Latitude 41.605268 Longitude -83.56242

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-2

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 40 ft. Static Water Level 20.8 ft.

Borehole Depth 40 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 30 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 40 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

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DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309482

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No Lot No

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605231 Longitude -83.56238

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION

ODNR Well Log Number Project Well ID MW-3

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 40 ft. Static Water Level 21.6 ft.

Borehole Depth 40 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 30 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 40 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

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DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES

309483

Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605134 Longitude -83.56253

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-4

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 16 ft. Static Water Level 6.6 ft.

Borehole Depth 16 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 6 ft. Casing Type PVC

SEALING PROCEDURE

Placement	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 16 ft.	Bentonite pellets/chunks	30 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

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DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309484

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605086 Longitude -83.56258

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION

ODNR Well Log Number Project Well ID MW-5

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 33 ft. Static Water Level 8.2 ft.

Borehole Depth 33 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 23 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 33 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

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Distribute additional copies to: Customer, Driller and Local Health Department.

DNR.7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES

309485

Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.60535 Longitude -83.56242

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-6

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015

Depth of Well 38 ft. Static Water Level 16.9 ft.

Borehole Depth 38 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 28 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 38 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309486

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605255 Longitude -83.5626

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION

ODNR Well Log Number Project Well ID MW-7

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/2/2015

Depth of Well 19 ft. Static Water Level 7.6 ft.

Borehole Depth 19 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 9 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 19 ft.	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES

Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309487

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X ___ +/- ___ ft. Y ___ +/- ___ ft.
OR
Latitude/Longitude Latitude 41.605013 Longitude -83.56262

Elevation of Well ___ +/- ___ ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-8

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/2/2015
Depth of Well 19 ft. Static Water Level 10.1 ft.
Borehole Depth 19 ft. Borehole Diameter 8 in.
Casing Diameter 2 in. Casing Length 9 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 19 ft.	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From ft. To ft.			
From ft. To ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810 12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES

309488

Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY.

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X ____ +/- ____ ft Y ____ +/- ____ ft
OR
Latitude/Longitude Latitude 41.605122 Longitude -83.56263

Elevation of Well ____ +/- ____ ft Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-9

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/2/2015

Depth of Well 14 ft. Static Water Level 6.9 ft.

Borehole Depth 14 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 4 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 14 ft.	Bentonite pellets/chunks	30 LBS	Poured (gravity)
From ____ ft. To ____ ft.			
From ____ ft. To ____ ft.			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ____ ft. To ____ ft.

Date Sealing Performed 7/2/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

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DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309489

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605173 Longitude -83.56259

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-10

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/2/2015

Depth of Well 22 ft. Static Water Level 9.3 ft.

Borehole Depth 22 ft. Borehole Diameter 8 in.

Casing Diameter 2 in. Casing Length 12 ft. Casing Type PVC

SEALING PROCEDURE

Placement:		Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.		Concrete	80 LBS	Poured (gravity)
From 1 ft. To 22 ft.		Bentonite pellets/chunks	50 LBS	Poured (gravity)
From ft. To ft.				
From ft. To ft.				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations From ft. To ft.

Date Sealing Performed 7/2/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

309490

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County: WOOD Township: ROSS Section No: Lot No:

Owner: SPEEDWAY SUPERAMERICA LLC

Address of Well Location: 939 DIXIE HGWY

City: ROSSFORD Zip Code:

Well Location Description (120 Characters):

Location of Well in either: State Plane N ☐ S ☐ X ____ +/- ____ ft. Y ____ +/- ____ ft.
OR
Latitude/Longitude Latitude: 41.60512 Longitude: -83.56255

Elevation of Well ____ +/- ____ ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other: MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other:

WELL IDENTIFICATION ODNR Well Log Number: Project Well ID: MW-11

MEASURED CONSTRUCTION DETAILS

Date of measurements: 7/2/2015

Depth of Well: 24 ft. Static Water Level: 6.9 ft.

Borehole Depth: 24 ft. Borehole Diameter: 8 in.

Casing Diameter: 2 in. Casing Length: 14 ft. Casing Type: PVC

SEALING PROCEDURE

Placement	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 1 ft.	Concrete	80 LBS	Poured (gravity)
From 1 ft. To 24 ft.	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From ____ ft. To ____ ft.			
From ____ ft. To ____ ft.			

Condition of Casing: Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ____ ft. To ____ ft.

Date Sealing Performed: 7/2/2015

Comments/Reason for Sealing: WELL NO LONGER MONITORED

CONTRACTOR

Name: SCS ENVIRONMENTAL CONTRACTING ODH Registration #:

Address: P O BOX 8980

City/State/Zip: FORT WAYNE, IN 46898

e-Signature: CURT LUEBBERT Filed electronically on: 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

ATTACHMENT C

SITE PHOTOS

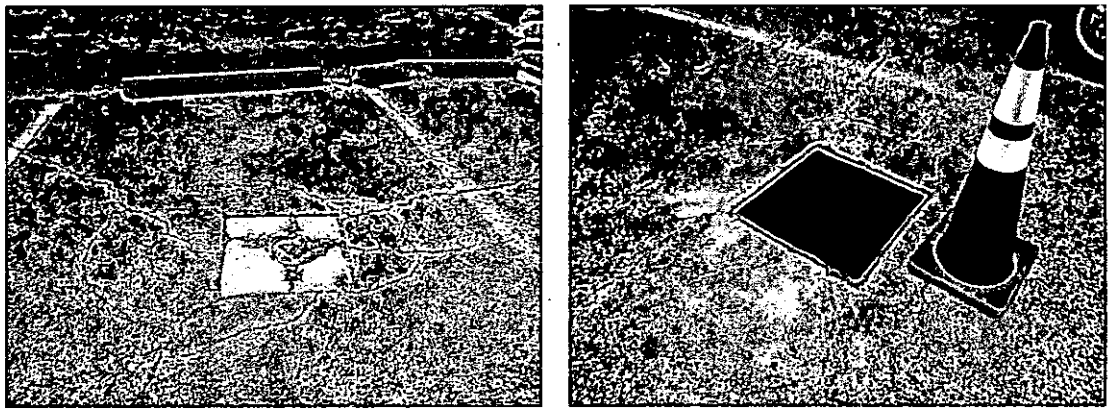


Figure 1 - Before and after photographs of monitoring well MW-01

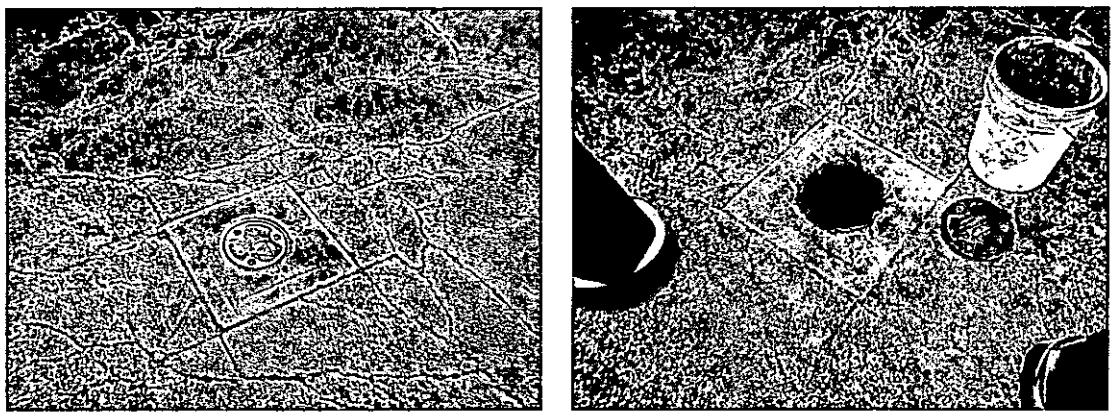


Figure 2 - Before and after photographs of monitoring well MW-02

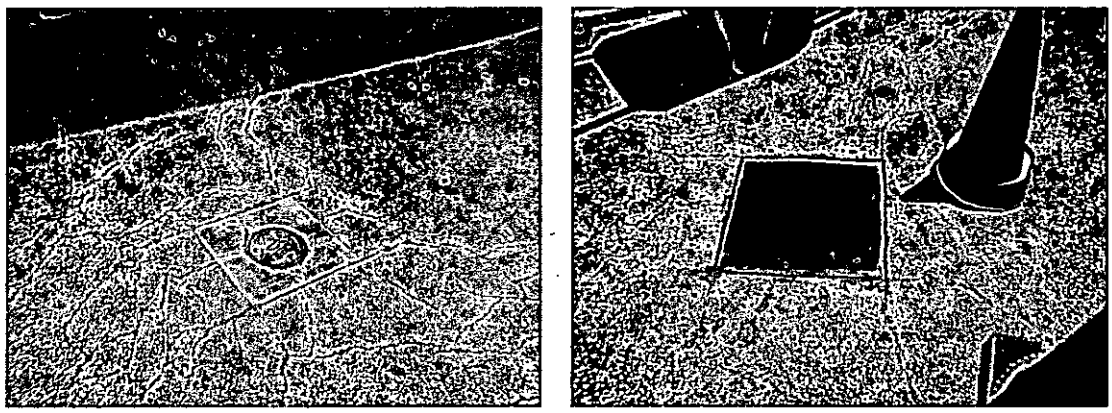


Figure 3 - Before and after photographs of monitoring well MW-03

Figure 4 - Before and after photographs of monitoring well MW-04

Figure 5 - Before and after photographs of monitoring well MW-05

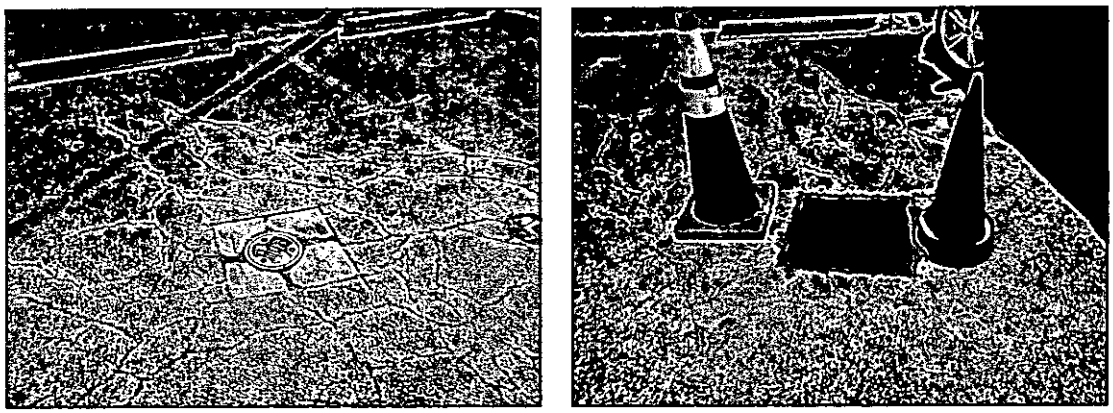


Figure 6 - Before and after photographs of monitoring well MW-06

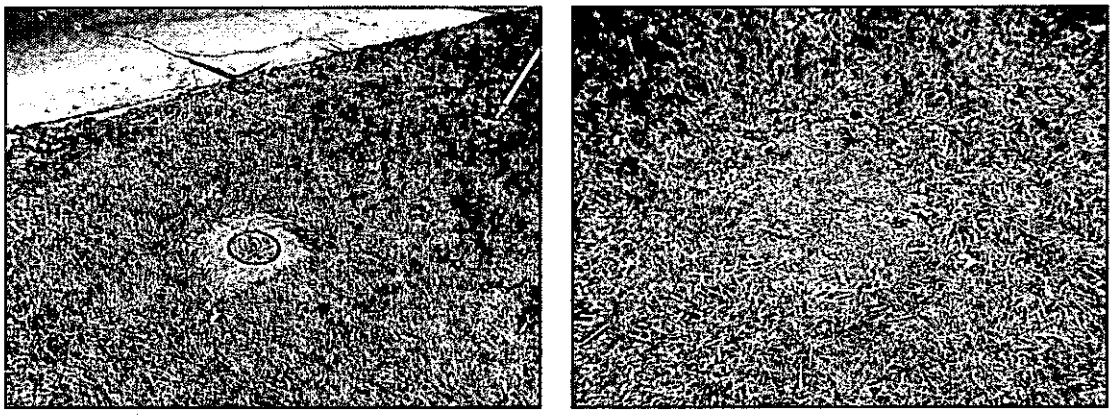


Figure 7 - Before and after photographs of monitoring well MW-07

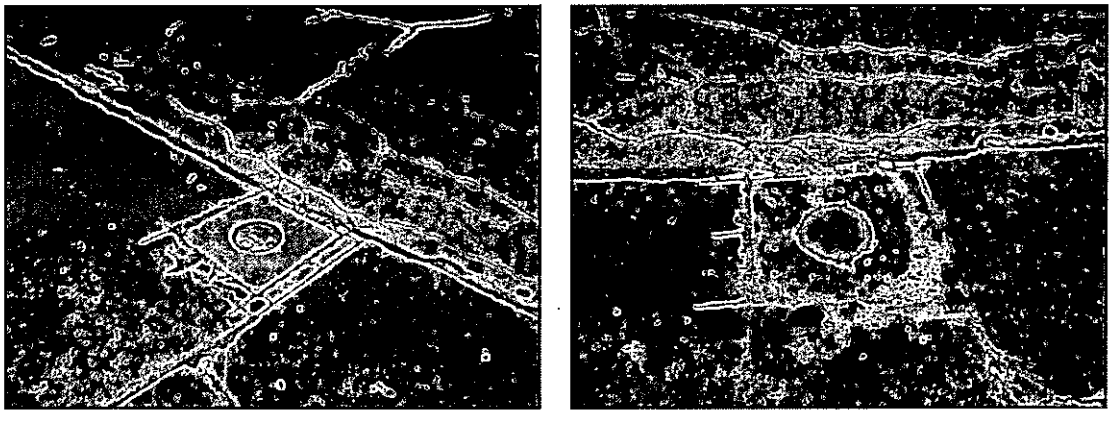


Figure 8 - Before and after photographs of monitoring well MW-08

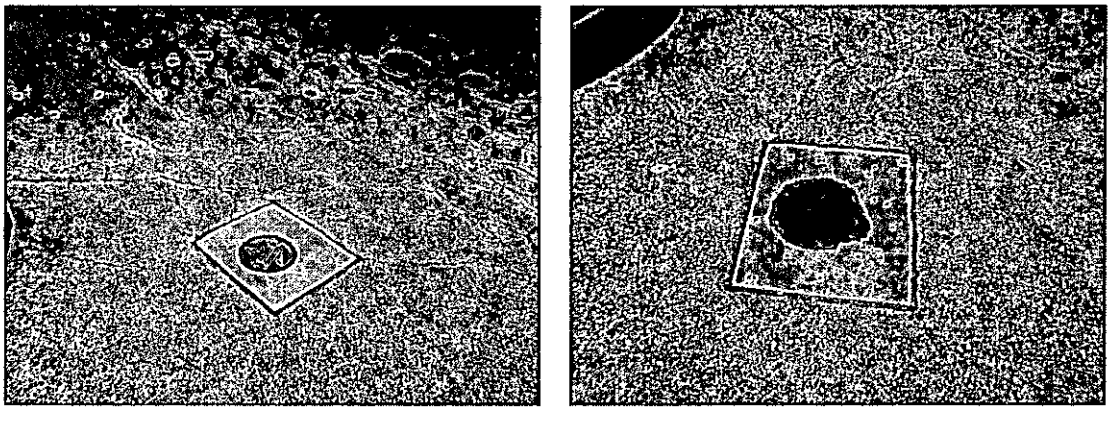


Figure 9 - Before and after photographs of monitoring well MW-09

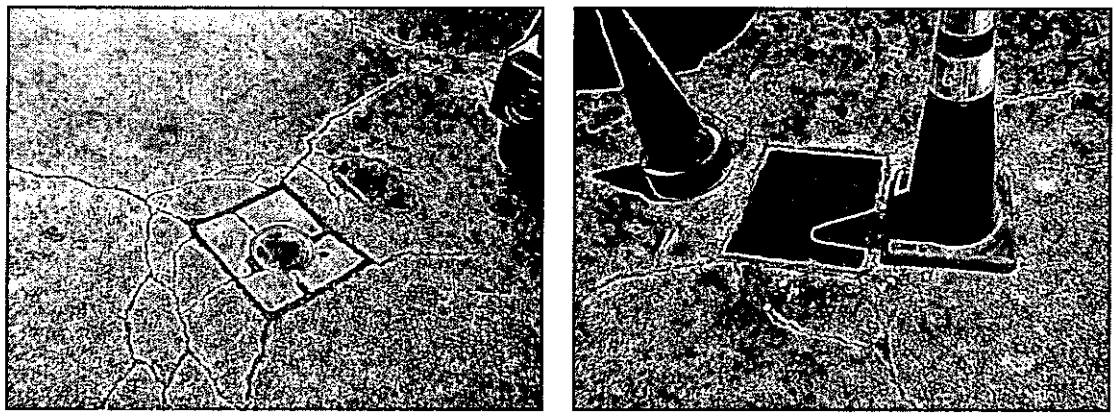


Figure 10 - Before and after photographs of monitoring well MW-10

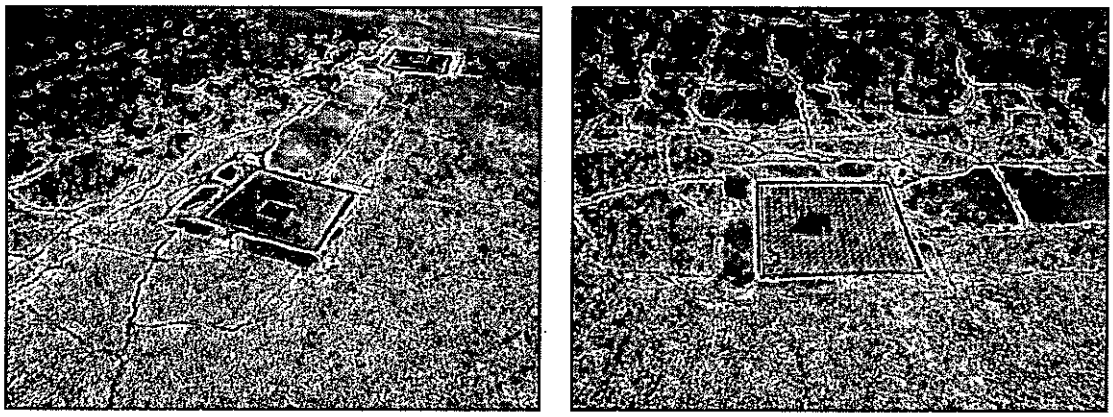


Figure 11 - Before and after photographs of monitoring well MW-11

RECEIVED
2003 JUN 27 AM 6:12
STATE FIRE MARSHAL

87 0000 87 N2

TIER 2 EVALUATION REPORT

SPEEDWAY SUPERAMERICA LLC UNIT #3642
939 East River Road
Rossford, Ohio

BUSTR Release # 87000087-N00004 (2)

(OAC 1301: 7-9-13 March 1999)

Prepared For:

SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
SPRINGFIELD, OHIO 45501

JUNE 2003

Prepared By:

PARSONS
19101 Villaview Road, Suite 100
Cleveland, Ohio 44119-3088

Parsons Project No. 440142.00420

  - Two 6,000-gallon gasoline USTs (installed January 1967)
  - Four gasoline dispensers (installed July 1997)
  - Underground piping associated with the UST system (installed July 1997)
- Above ground utilities include: electric and telephone.
- Below ground utilities include: gas, sanitary sewer, storm sewer, and water.

Structures formerly located at the site include the following:

- UST system:
  - One 550-gallon used oil UST (removed July 1997)
  - Three gasoline dispensers (removed July 1997)

Previous Investigations

The following is a brief outline of the previous subsurface investigation activities conducted at the site:

- **July 1997:** A closure assessment was conducted in association with the permanent removal of three gasoline dispensers and related underground piping, and one 550-gallon used oil UST. In addition, a site assessment was conducted with the advancement of three soil borings (B-1, B-2, and B-3). Boring B-1 was completed as monitoring well MW-1. Refer to the ATC Associates, Inc. *UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment Report* dated 31 October 1997.

- **March 1998:** Two soil borings (ES-1 and ES-2) were advanced. Refer to the Parsons Engineering Science, Inc. *Site Assessment Report* dated May 1998 for further details.

- **March 2002:** Five monitoring wells (MW-2 through MW-6) were installed at the site as part of Tier 1 Evaluation activities. In addition one soil boring (ST-1) was advanced and a Shelby tube collected and submitted for geotechnical analysis. Refer to the Parsons *Tier 1 Evaluation Notification Checklist Report*, dated May 2002 for further details.

Source Area

Gasoline is dispensed at the facility; therefore, the COCs at the site are those associated with Analytical Group 1. The current release was confirmed on 31 December 1997 when free product was detected in the onsite storm sewers and in Grassy Creek. The probable sources of petroleum hydrocarbons in soil and groundwater at the site are releases from the gasoline UST system. The current source area is the area immediately surrounding and downgradient of the gasoline dispensers.

The COCs associated with gasoline USTs are BTEX and MTBE.

Regional and Site Geology

According to the "Physiographic Regions of Ohio" (Brockman, 1998) the site is located in the Maumee Lake Plains of the Huron-Erie Lake Plains Section of the Central Lowland Physiographic Province. The glacial geology of the area consists of Late Wisconsinan-age lacustrine clay (Pavey, et al, 1999). Bedrock consists of Silurian-age limestone of the Monroe Formation (Bownocker, 1992).

Soils encountered beneath the asphalt and concrete pavement and base fill materials, consisted of brown to gray silty clays (CL-ML). Bedrock was not encountered in any boring to a maximum depth of approximately 40 feet below surface grade. Figure 4 is a cross-section illustrating soil encountered in borings MW-2, MW-4, MW-5 and MW-6

Regional and Site Hydrogeology

Based on the "Ground-Water Resources of Wood County" (Hallfrisch, 1986), SSA Unit #3642 is situated in an area where the principal aquifer is the carbonate bedrock aquifer. Groundwater yields of 100 to 500 gallons per minute may be available.

Groundwater was encountered in all previously installed monitoring wells. Depth to water measurements were recorded on 19 February 2003 (Table 1). Static groundwater levels on 19 February 2003 ranged from 8.06 feet (MW-4) to 29.65 feet (MW-3) below surface grade. Depth to fluid measurements indicate there are potentially two groundwater flow regimes at the referenced site. The potentiometric surface map generated from the 19 February 2003 data indicate groundwater movement at the site is to the southwest (shallow) and east (deep) (Table 1 and Figure 5).

Local Groundwater Resources

For the purpose of this report, the saturated zone encountered during drilling at the subject site is considered to be drinking groundwater due to the reported presence of potable water wells within 2,000 feet of the site. Below is a summary of information gathered:

- Drinking water is supplied to the site and surrounding area by the City of Toledo. The city obtains its water from Lake Erie, which is located approximately 8.5 miles

northeast of the site. The City of Toledo verified that all surrounding properties are tied-in to the city water supply.

- Communication with the ODNR determined that there are two water wells located within a 2,000-foot radius of the site. A search on the ODNR Division of Water website (*www.dnr.state.oh.us/odnr/water/maptechs/wellogs/app/default.asp*) indicated there are multiple "non-located" well logs within a 2,000-feet radius of the site (Appendix A).
- The addresses of properties within 300 feet of the site were obtained, and postcards were mailed to each address requesting whether or not a potable water well was present on their property. No additional wells have been identified by the survey (Appendix A).
- According to information provided by the OEPA web site (*www.epa.state.oh.us/ddagw/pdu/swap_map.html*), there is no wellhead protection program in the area of SSA Unit #3642 (Appendix A).
- From previous site visits and according to the United States Geological Survey (USGS) Rossford, Ohio 7.5-minute topographic map, there is one surface body of water within 300 feet of the site. Grassy Creek is located approximately 250 feet north of the site and flows westward into the Maumee River.
- The UST site is not located in an area listed on the Urban Setting Designations posted on the OEPA web site (*www.epa.state.oh.us/derr/vap/usd.html*) (Appendix A).
- The UST site is not located in an area designated as a sole source aquifer (*www.epa.state.oh.us/ddagw/pdu/swap_ssa.html*) (Appendix A).
- Based on the "Ground-Water Resources of Wood County" (Hallfrisch, 1986), SSA Unit #3642 is situated in an area where groundwater is obtained from the carbonate bedrock aquifer. Groundwater yields of 100 to 500 gallons per minute may be available.
- The site is not located in a sensitive area as defined by OAC Rule 1301:7-9-9.

SAMPLING METHODOLOGY AND RESULTS

Soil Sampling Methodology

On 19 December 2002, Northcoast Drilling Service, Inc. advanced two soil borings (MW-7 and MW-8) at SSA Unit #3642 under the supervision of a Parsons geologist. Borings MW-7 and MW-8 were advanced using 4.25-inch ID hollow-stem augers (HSA).

The first five feet of the boring was hand dug using a stainless steel hollow barrel hand-auguring device to prevent damaging potential underground utilities that may not have been marked. Thereafter, soil samples were collected continuously from the boring with a 2-inch diameter, 24-inch long, split-spoon sampling device using the Standard Penetration Test Method (ASTM Method D-1586). Blow counts for each sampled interval were recorded on the soil boring logs (Appendix B).

The field geologist provided a complete description of soils encountered during drilling activities. The Standard Visual - Manual Soil Classification Scheme was used to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, and soil type for each split-spoon sample are recorded on the soil boring logs. Each soil sample was also carefully examined for evidence of petroleum hydrocarbons.

Soil samples were equally divided between two clean glass jars. One jar was secured with a screw-on TeflonTM-lined lid, and stored on ice in a cooler for possible laboratory analysis. The other jar was sealed with aluminum foil and secured with a screw-on lid. This jar was held for a minimum of 10 minutes before scanning the headspace for volatile organic compounds (VOCs).

Soil samples were field screened for VOCs using a Photovac Microtip™ photoionization detector (PID). The PID was calibrated with a 100 ppm isobutylene-in-air commercial gas standard, and used in accordance with the manufacturer's operating instructions. The headspace above each sample was scanned for VOCs by piercing the aluminum foil seal with the PID probe, and recording the maximum observed reading in parts per million (ppm) (Appendix B).

The undisturbed unsaturated samples registering the highest PID headspace reading and the samples from immediately above the saturated zone were selected for laboratory analysis. The samples were placed in a cooler with ice, and transported to Bio-Chem Laboratories located in Grand Rapids, Michigan under chain-of-custody procedures. Soil samples were analyzed for BTEX and MTBE (Method 8260B) and/or total organic carbon (TOC, Method ASTM D2974-87). The complete laboratory report has been included in Appendix C.

All tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse, followed by a final rinse with distilled water. The equipment was allowed to air dry prior to reuse. Drilling implements, such as the probe tubes and rods were steam cleaned before beginning each boring.

All soils generated during drilling activities and the purge and development water generated during sampling activities were stored onsite in labeled 55-gallon, closed top drums, awaiting proper disposal.

Monitoring Well Installation

Monitoring wells MW-7 and MW-8 were completed using ten feet of two-inch 0.010-inch slotted PVC well screen and sufficient PVC riser to complete the wells to the surface. A sand pack was placed in the annular space from the bottom of each boring to two feet above the screened interval. A two-foot thick bentonite seal was placed on top of the sandpack to prevent downward fluid migration into the well. The remaining space was filled with a bentonite grout to within six to eight inches of surface grade. An expandable locking well cap was placed on the PVC riser. Each monitoring well was finished with a flush-mount manhole cover in concrete. Surface pavement was slightly mounded around the upper portion of the manhole cover to help prevent surface water intrusion.

Upon completion, each well was developed by surging the water column with a two-inch PVC bailer. The bailer was lowered by polyethylene line into the well, and then rapidly raised and lowered several times. The surging effect created by the motion of the bailer loosens fine material that can clog the well screen or the surrounding sand pack. After developing each well, the line was discarded and the bailer was scrubbed with a Liquinox™ and water solution. The bailer was then rinsed with tap water to minimize the potential for cross-contamination between wells.

Groundwater Sampling Methodology

On 19 February 2003, depth to fluid measurements were recorded for site wells MW-2 through MW-8. Monitoring well MW-1 was not gauged as there was a large snow pile which covered the location. Table 1 summarizes the depth to fluid measurements and relative elevations. A potentiometric surface map, included as Figure 5, was generated using this data and survey elevation data for each monitoring well.

On 19 February 2003, groundwater samples were collected from monitoring wells MW-2 through MW-8. Each well was purged of static water in preparation for sample collection.

Purging of wells consisted of bailing three well volumes of groundwater or until the monitoring wells were purged dry, whichever came first. Each well was then allowed to recharge before water samples were collected.

Water samples were collected with disposable bailers, and divided between two laboratory supplied 40-milliliter vials. The samples were preserved in accordance with the prescribed laboratory requirements, placed on ice in a cooler, and transported under chain-of-custody procedures to Bio-Chem Laboratories in Grand Rapids, Michigan. The samples were analyzed for BTEX and MTBE by Method 8260B. The complete laboratory report has been included in Appendix C.

Hydraulic Conductivity Testing

Slug tests were conducted on monitoring wells MW-4, MW-6, MW-7 and MW-8 and the data was reduced using the Hvorslev Method. Horizontal hydraulic conductivities range from 3.9×10^{-5} cm/sec (MW-4) to 3.94×10^{-7} cm/sec (MW-6). The reduced hydraulic conductivity data is included in Appendix D.

Soil and Groundwater Chemistry

Soil analytical results are presented in Tables 2 and 3 and shown on Figure 6. The results of groundwater analytical data collected on 19 February 2003 are presented in Table 4 and shown on Figures 7 through 10. The soil laboratory report for the 19 December 2002 sampling event, and the groundwater laboratory report for the 19 February 2003 sampling event are included in Appendix C.

SUMMARY OF TIER 1 EVALUATION

Based on the Parsons Tier 1 Evaluation Notification Checklist Report, dated June 2002, soil at the site is classified as sandy silty clay (CL-ML) (Tables 3 and 5). This corresponds to the BUSTR silty/clayey sand soil type. The saturated zone encountered during drilling at the subject site is considered to be drinking groundwater due to the reported presence of potable water wells within 2,000 feet of the site.

In the Tier 1 Evaluation, the maximum detected concentrations of constituents in site media were compared to residential receptor-based Action Levels. This approach was designed to evaluate site contaminant levels based on the most conservative potential receptor scenario. Comparison of the maximum COC concentrations at the site with the Tier 1 Action Levels (Table 5) indicated the following:

- The maximum benzene concentration in soils exceed the Tier 1 Action Levels for the soil leaching to groundwater pathway and the soil to indoor air volatilization pathway.
- The maximum benzene, ethylbenzene and MTBE concentrations dissolved in groundwater exceed the Tier 1 Action Levels for the groundwater ingestion pathway.

Therefore, a Tier 2 Evaluation or an interim response action should be performed for the site. SSA elected to conduct a Tier 2 Evaluation.

TIER 2 EVALUATION

The Tier 2 Evaluation initiates the development of a conceptual site model to identify Tier 2 potentially complete exposure pathways. Site-specific target levels (SSTLs) are calculated (using site-specific data collected during the site assessment activities and the BUSTR algorithms) based on these pathways. When site-specific data were not available, default values provided by BUSTR were utilized in the analysis.

Once the SSTLs for the Tier 2 COCs are determined, they are then compared to the maximum COC concentrations present at the site. If the Tier 2 COC concentrations at the site are below the SSTL concentrations, then the COCs at the site are not expected to pose an unacceptable risk to human receptors. If the Tier 2 COC concentrations exceed the SSTL concentrations, corrective actions or a further risk evaluation (Tier 3) is required.

Site Conceptual Exposure Model

A site conceptual exposure model was developed for the site to describe all exposure pathways that could reasonably be assumed to exist (or potentially exist in the future) based on the available information. A complete exposure pathway includes the following components: a source area(s), transport mechanisms, exposure routes, point(s) of exposure, and receptors. Detailed evaluation on each component and all potentially complete exposure pathways under the current and future land use scenarios are discussed in the following subsections.

Land Use Scenarios and Potential Receptors

The site is an active gasoline retail facility. Commercial workers are the current onsite receptors. Land use in the area is primarily residential. Therefore, residents are considered the future potential receptors.

The site and surrounding area are completely developed as commercial or residential areas. No national or state parks, forests, or wildlife refuges were identified within 2,000 feet of the site. Ecological receptors are not a concern for this site.

Chemicals of Concern

Chemicals of concern were selected during the Tier 1 Evaluation Notification Checklist according to OAC 1301:7-9-13 (March 1999). Gasoline was stored/dispensed at the facility, and there was a confirmed release for the UST system in December 1997. The COCs associated with a gasoline release are BTEX and MTBE. The COCs for the Tier 2 evaluation are compounds that exceeded the Tier 1 Action Levels and include the following:

- Soils – benzene.
- Groundwater – benzene, ethylbenzene and MTBE.

Identification of Source and Transport Mechanisms

The source area is defined as the area of highest concentration of petroleum hydrocarbons. The probable sources of petroleum hydrocarbons in soil and groundwater at the site are releases from the former gasoline UST system. The source area is the area immediately surrounding and downgradient of the gasoline dispensers. The current primary source areas (i.e.,

media) for COCs at the site include subsurface soil (considered greater than three feet below surface grade) and groundwater.

Transport mechanisms at the site include direct contact, the generation of fugitive dust and volatilization of COCs from soil and groundwater, and leaching of COCs from subsurface soils into groundwater.

Exposure Route and Exposure Point

Impacted media at the site includes subsurface soils and groundwater. This section discusses the potential exposure routes associated with these media.

- **Soil** – Exposure routes include incidental ingestion, dermal contact, and inhalation of volatiles and dust generated from soil.
- **Groundwater** - Exposure routes include ingestion, dermal contact, and inhalation of volatiles.

Exposure points are defined as the points at which a receptor is likely to come in contact with a chemical of concern. For direct contact, the point of exposure is the source area. For inhalation, the point of exposure is ambient air, or air in an enclosed space. For groundwater ingestion, the exposure point is a surface body of water located 250 feet from the source area.

Potential Exposure Pathways

The potentially complete exposure pathways are summarized in the conceptual site model for the current and future exposure scenarios (Figures 11 and 12). The pathway analysis for the site under current and future scenarios are listed as follows:

Current Site Worker

(1) Complete Exposure Pathways

- Inhalation of outdoor air containing vapors that have volatilized from subsurface soil and groundwater through pavement cracks are a potentially complete exposure pathway. However, this exposure pathway is not quantitatively evaluated in the Tier 2 analysis because the amount of vapors volatilized from soil or groundwater through cracks in pavement in good condition is insignificant.
- Groundwater migration to the nearest potential receptor, a surface body of water approximately 250 feet away is potentially complete. However, the surface body of water is upgradient of the site and modeling simulations using BIOSCREEN

indicate that dissolved concentrations of benzene, ethylbenzene and/or MTBE will not migrate 250 feet from the site. In addition, the groundwater ingestion exposure pathway is eliminated for the current use because the site and the surrounding area are currently serviced by potable water. Table 6 presents the BIOSCREEN model input parameters and copies of the BIOSCREEN simulations are found in Appendix E.

(2) Incomplete Exposure Pathways

- Inhalation of indoor air containing vapors that have volatilized from subsurface soil is not a complete exposure pathway because the facility building is not located over the impacted area.
- Direct contact with soil containing COCs is not a complete exposure pathway because the site is paved and because the maximum detected concentration of COCs in soil are below the Tier 1 Direct Contact Action Level.
- The groundwater ingestion exposure pathway is eliminated for the current use because the site and the surrounding area are currently serviced by potable water.
- The soil leaching to groundwater pathway is eliminated for the current use because the groundwater ingestion pathway is eliminated.
- Inhalation of indoor air containing vapors that have volatilized from groundwater is a not complete exposure pathway because the facility building is not located over the impacted area and because the maximum detected concentration of COCs in groundwater is below the Tier 1 groundwater to indoor air Action Level.
- The site is a commercial property with no ecological receptors on site that could be affected by residual petroleum hydrocarbons, and no migration pathway exists that would transport contaminants to an off-site surface water body.

Future Residential

(1) Complete Exposure Pathways

- Inhalation of outdoor air containing vapors that have volatilized from subsurface soil and groundwater are a potentially complete pathway. However, these exposure pathways are not quantitatively evaluated in the Tier 2 analysis because other completed pathways have more stringent action levels.
- Inhalation of indoor air containing vapors that have volatilized from subsurface soil is a potentially complete exposure pathway. The calculated SSTL for benzene of 3.41 mg/kg is greater than the maximum concentration of benzene detected in soil (1.7 mg/kg) at the site (Table 7 and Appendix F). As such, there is no apparent risk to human health and the environment.
- Inhalation of indoor air containing vapors that have volatilized from groundwater is a potentially complete exposure pathway. However SSTLs were not calculated because the maximum detected concentration of COCs in groundwater is below the Tier 1 groundwater volatilization to indoor air Action Level.
- Groundwater migration to the nearest potential receptor, a surface body of water approximately 250 feet away is potentially complete. However, the surface body of water is upgradient of the site and modeling simulations using BIOSCREEN indicate that dissolved concentrations of benzene, ethylbenzene and/or MTBE will not migrate 250 feet from the site. In addition, the groundwater ingestion exposure pathway is eliminated for the current use because the site and the surrounding area are currently serviced by potable water. Table 6 presents the

BIOSCREEN model input parameters and copies of the BIOSCREEN simulations are found in Appendix E.

- Direct contact with soil containing COCs is a complete exposure pathway. However, SSTLs were not calculated because the maximum detected concentration of COCs in soil are below the Tier 1 Direct Contact Action Level.

(2) Incomplete Exposure Pathways

- The soil leaching to groundwater pathway is eliminated for the future use scenario because the soil concentrations available to leach into drinking groundwater are less than the existing water concentrations encountered at the site (see groundwater migration above).
- The site is a commercial property with no ecological receptors on site that could be affected by residual petroleum hydrocarbons, and no migration pathway exists that would transport contaminants to an off-site surface water body.
- The groundwater ingestion pathway is not complete at the exposure points based on BIOSCREEN modeling (Appendix E).

Determination of Site Specific Target Levels (SSTLs)

SSTLs are considered protective of human health. A target risk of one in one hundred thousand excess cancer risk (1×10^{-5}), a target hazard quotient of 1, and reasonable maximum exposure assumptions were used to calculate the SSTLs. SSTLs are determined by the input of site-specific parameters into BUSTR Tier 2 spreadsheets. Site-specific data were used (when available) for the calculation of SSTLs. Where site-specific data were not available, default values provided by BUSTR were used.

The SSTL for the soil volatilization to indoor air pathway under the potential future residential use scenario is summarized in Table 7. The results indicate that the maximum benzene concentration (1.7 mg/kg) detected in soil is below the SSTL (3.41 mg/kg) for the soil volatilization to indoor air pathway. BIOSCREEN simulations indicate that the maximum benzene, ethylbenzene and/or MTBE concentrations in groundwater will not migrate to the POE which is assumed to be a surface body of water 250 feet from the site. Additionally, the maximum benzene concentrations detected in subsurface soils will not leach into groundwater and migrate to the POE. BIOSCREEN model results are presented in Appendix E. The Tier 2 worksheets for the physical and chemical properties of the Tier 2 COCs, toxicity values, equations, and SSTL calculations are included in Appendix F.

TIER 2 SUMMARY AND CONCLUSIONS

The Tier 2 Evaluation results indicated that the maximum benzene concentration detected in soil is below the SSTL for the soil to indoor air pathway (future residential). All other pathways are incomplete.

Based on the results of the Tier 2 Evaluation, SSA Unit #3642, in its current commercial and potential future residential state, does not pose an unacceptable risk to human health and the environment. SSA respectfully requests BUSTRs consideration for a "No Further Action" for Release #87000087-N00004.

REFERENCES

Bownocker, J.A., reprint of 1992. "Geologic Map of Ohio" State of Ohio Department of Natural Resources (ODNR), Division of Geological Survey (map).

Brockman, C.S., 1998. "Physiographic Regions of Ohio", ODNR, Division of Geological Survey (map).

Hallfrisch, M., 1986. "Ground-Water Resources of Wood County", ODNR, Division of Water (map).

Pavey, R.R., et al, 1999. "Quaternary Geology of Ohio", ODNR, Division of Geological Survey (map).

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation [1] (feet)	Relative Groundwater Elevation [2] (feet)
MW-1 [3]	19-Feb-03	2	34.16	--	--	--	100.88	--
MW-2	19-Feb-03	2	39.89	22.42	22.42	0.00	97.19	74.77
MW-3	19-Feb-03	2	41.22	29.65	29.65	0.00	98.44	68.79
MW-4	19-Feb-03	2	15.92	8.06	8.06	0.00	97.98	89.92
MW-5	19-Feb-03	2	32.43	10.67	10.67	0.00	97.91	87.24
MW-6	19-Feb-03	2	38.46	19.98	19.98	0.00	96.70	76.72
MW-7	19-Feb-03	2	19.26	9.82	9.82	0.00	95.70	85.88
MW-8	19-Feb-03	2	19.05	13.05	13.05	0.00	97.78	84.73

PSH Phase Separated Hydrocarbons

(1) North side of manhole cover (surface grade) relative to the site benchmark, assigned an arbitrary value of 100.00 feet. As of April 2002, the site benchmark is the top bolt of the fire hydrant located at the western corner of the site near the Speedway sign.

(2) When PSH is present, groundwater elevations are corrected by first multiplying PSH thickness by the specific gravity of hydrocarbons (assumed to be 0.76), then subtracting the calculated PSH thickness from the depth to water measurement.

(3) Well under snow pile.

TABLE 2

RESULTS OF LABORATORY ANALYSIS - SOIL

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Interval (feet)	Sample Date	Volatile Organic Compounds (VOCs) [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPH-GRO *(Method 8015)* (ppm)
Action Levels (silty/clayey sand soil):			**0.240**	**112**	**131**	**1,500**	**0.890**	NA
Closure Assessment and Site Assessment - July 1997								
L-1	4'	09-Jul-97	1.7	19.0	11.0	76.0	---	1,000
D-3	2'	09-Jul-97	0.150	2.3	3.1	26.0	---	380
B-1/MW-1	26-28'	09-Jul-97	0.009	< 0.002	< 0.002	< 0.004	---	< 5.0
B-2	10-12'	10-Jul-97	< 0.002	< 0.002	< 0.002	0.014	---	< 5.0
	16-18'	10-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
B-3	38-40'	10-Jul-97	0.012	0.010	< 0.002	< 0.004	---	< 5.0
UST001 (Used Oil UST)	6'	15-Jul-97	< 0.005	< 0.005	< 0.005	< 0.010	---	< 10.0
Site Assessment - March 1998								
ES-1	9-11'	11-Mar-98	0.004	< 0.002	< 0.002	< 0.004	---	< 5.0
	43-45'	12-Mar-98	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
ES-2	7-9'	12-Mar-98	< 0.125	0.940	1.5	12.0	---	260
Tier 1 Evaluation - March 2002								
MW-2	9-11'	06-Mar-02	< 0.050	0.100	0.400	5.660	< 0.050	---
	33-35'	06-Mar-02	0.013	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-3	9-11'	07-Mar-02	0.018	0.011	0.013	0.088	< 0.010	---
	33-35'	07-Mar-02	0.055	0.035	0.016	0.076	< 0.010	---
MW-4	7-9'	07-Mar-02	0.400	0.017	0.140	0.142	0.350	---
	9-11'	07-Mar-02	0.360	0.021	0.059	0.137	0.210	---
MW-5	5-7'	07-Mar-02	0.180	0.028	0.064	0.301	0.065	---
	7-9'	07-Mar-02	0.400	4.600	8.300	68.0	0.200	---
	9-11'	07-Mar-02	1.300	7.500	11.000	84.0	< 0.050	---
	13-15'	07-Mar-02	1.000	1.000	2.000	18.7	0.460	---
	29-31'	08-Mar-02	0.050	0.034	0.013	0.078	< 0.010	---
MW-6	1-3'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	5-7'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	17-19'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	29-31'	11-Mar-02	0.019	0.019	0.010	0.062	< 0.010	---
Additional Assessment - December 2002								
MW-7	7-9'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-8	3-5,	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	11-13'	19-Dec-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---

MTBE	Methyl-tertiary-butyl-ether
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
ppm	parts per million
Bold	indicates value above Tier 1 Action Levels
(1)	Samples analyzed by EPA Method 8020 or 8260, with the exception of sample UST001 which was analyzed for VOAs by EPA Method 8240 and TPH by EPA Method 418.1.
---	Not analyzed for indicated parameter.

TABLE 3

RESULTS OF LABORATORY ANALYSIS - GEOTECHNICAL PARAMETERS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification Sample Interval (feet) Sample Date	MW-3 9-11' 07-Mar-02	MW-3 33-35' 07-Mar-02	ST-1 5-7' 11-Mar-02	MW-6 19-21' 11-Mar-02	MW-7 3-5' 19-Dec-02	MW-7 15-17' 19-Dec-02
TOC (%) (ASTM D2974)	1.8	1.9	---	---	2.3	2
TOC x 0.58 BUSTR Correction Factor (%)	1.04	1.10			1.33	1.16
USCS Soil Classification (ASTM D2487)	---	---	Sandy Silty CLAY (CL-ML)	Sandy Silty CLAY (CL)	---	---
USCS Grain Size Distribution (ASTM D422)						
Gravel (%)	---	---	8.5	4.2	---	---
Sand (%)	---	---	23.9	20.2	---	---
Silt (%)	---	---	42.5	43.3	---	---
Clay (%)	---	---	25.1	32.3	---	---
Atterburg limits (ASTM D4318)						
Liquid Limit	---	---	24	32	---	---
Plastic Limmit	---	---	18	19	---	---
Plasticity Index	---	---	6	13	---	---
Moisture Content (w%) (ASTM D2216)	---	---	16.1	16.35	---	---
Specific Gravity (ASTM D854)	---	---	2.73	2.73	---	---
Total Porosity (%) (Army Corps of Engineers)	---	---	31.79	31.25	---	---
Vertical Hydraulic Conductivity (cm/sec) (ASTM D5084)	---	---	4.63E-08	1.25E-08	---	---

TOCs analyzed by Bio-Chem Laboratories located in Grand Rapids, Michigan.
Shelby tube sample analyzed by JLT Laboratories, Inc located in Canonsburg, Pennsylvania.

--- sample not analyzed for indicated parameter.

TABLE 4

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Tier 1 Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-1	15-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---
	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-2	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-3	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-4	11-Apr-02	**3.1**	0.069	**2.1**	9.630	**2.6**
Duplicate	11-Apr-02	**2.8**	0.110	**2.0**	9.320	**2.6**
	20-Dec-02	**0.120**	0.027	0.083	0.420	**0.110**
Duplicate	20-Dec-02	**0.110**	0.030	0.078	0.409	**0.120**
	19-Feb-03	**3.6**	0.060	**2.3**	9.270	**1.6**
Duplicate	19-Feb-03	**3.4**	0.065	**2.1**	7.930	**1.8**
MW-5	11-Apr-02	0.0018	< 0.001	0.0012	< 0.0047	**0.270**
	20-Dec-02	0.0048	< 0.001	0.003	< 0.015	**0.500**
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	**0.630**
MW-6	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-7	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
	19-Feb-03	< 0.001	< 0.001	0.0011	< 0.0056	< 0.004
MW-8	20-Dec-02	< 0.001	< 0.001	< 0.001	< 0.003	0.013
	19-Feb-02	< 0.001	< 0.001	< 0.001	< 0.003	0.012

MTBE Methyl-Tertiary-Butyl-Ether

ppm parts per million
Bold Value exceeds Action Levels

(1) Samples analyzed by EPA Method 602, 8021 or 8260B.

TABLE 5

TIER I SCREENING LEVELS
Silty / Clayey Sands Soil Type
OAC 1301: 7-9-13 (I)(3)

SSA Site #: *3642*
Address: *939 E River Rd*
City / County / State: *Rossford / Wood / OH*

SSA Project Manager: *Brian Epperson*
BUSTR Incident #: *87000087-N00004*
Consultant Project #: *440142*

Media	Maximum Site		Ground Water	Ground Water to Indoor Air				Maximum Site		Soil	Soil				Soil				Soil
Pathway	Ground Water Concentration	Location	Ingestion[1] OAC 7-9-13: (I)(3)(d)(i)	Volatilization OAC 1301: 7-9-13 (I)(3)(4)(vi)(b)				Soil Concentration	Location	Direct Contact[1] OAC 7-9-13: (I)(3)(d)(ii)	Leaching to Drinking Ground Water OAC 7-9-13: (I)(3)(iv)(b)				Leaching to Non-Drinking Ground Water OAC 7-9-13: (I)(3)(iii)(b)				Volatilization to Indoor Air OAC 7-9-13: (I)(3)(vi)(b)
Units	(mg/L)		(mg/L)	(mg/L)				(mg/Kg)		(mg/Kg)	(mg/Kg)				(mg/Kg)				(mg/Kg)
Avg. Depth to Ground Water (feet bgs):				<15 ft	15-30 ft	31-50 ft	> 50 ft				<15 ft	15-30 ft	31-50 ft	> 50 ft	<15 ft	15-30 ft	31-50 ft	> 50 ft	
VOLATILES																			
benzene	*3.6*	MW-4	0.005	3.99	3.99	4.06	4.16	*1.7*	L-1 (4')	8.2	0.240	0.240	0.270	0.300	117	118	118	120	0.950
toluene	0.65	MW-4	1.00	--	--	--	--	19	L-1 (4')	520	112	112	--	--	--	--	--	--	--
ethylbenzene	*2.3*	MW-4	0.700	--	--	--	--	11	MW-5 (9-11')	230	131	131	--	--	--	--	--	--	--
total xylenes	9.27	MW-4	10.0	--	--	--	--	84	MW-5 (9-11')	1500	--	--	--	--	--	--	--	--	--
ADDITIVES																			
MTBE	*1.8*	MW-4	0.040	--	--	--	--	0.46	MW-5 (13-15')	130	0.890	0.890	1.000	1.190	--	--	--	--	--
PAH																			
benzo(a)anthracene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
benzo(a)pyrene	--	--	0.0002	--	--	--	--	--	--	0.550	--	--	--	--	--	--	--	--	--
benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	55.0	--	--	--	--	--	--	--	--	--
chrysene	--	--	--	--	--	--	--	--	--	550	--	--	--	--	--	--	--	--	--
dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	--	0.550	--	--	--	--	--	--	--	--	--
indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
naphthalene	--	--	0.570	--	--	--	--	--	--	1800	--	--	--	--	--	--	--	--	--
CHLORINATED VOCs[2]																			
carbon tetrachloride	--	--						--	--										
dichloroethane (1,1 -)	--	--						--	--										
dichloroehylene (1,1 -)	--	--						--	--										
tetrachoroethene (PCE)	--	--						--	--										
trichloroethane (1,1,1 -)	--	--						--	--										
trichloroethylene (TCE)	--	--						--	--										
vinyl chloride	--	--						--	--										
Pathway Complete?			Yes	--	Yes	--	--			Yes	--	Yes	--	--	--	--	--	--	Yes

Analytical Group(s): *1*
Current property use: *Speedway facility*
SSA owned property (yes/no)?: *Yes*
Number of on-site monitoring wells: *6*
Number of off-site monitoring wells: *2*

Qtrs. existing gw data?: *3*
3rd party claims?: *Unknown*
list on-site wells: *MW-1 through MW-6*
list off-site wells: *MW-7 and MW-8*

On-site Potable Water Well (yes/no): *no*
Number of Private Potable Wells within 2,000 feet: *2*
Number of Public Water Sources within 2,000 feet: *0*
Number of Surface Water Bodies within 300 feet: *1*

Notes: [1] Standards apply regardless of soil type.
[2] Action levels for Chlorinated VOCs can be developed during a Tier II evaluation.
"--" Indicates that the particular chemical of concern is not applicable to this particular pathway
"NA" indicates that no data for that parameter are available
Analytical data in bold indicates that the Tier I level was exceeded for one or more pathways

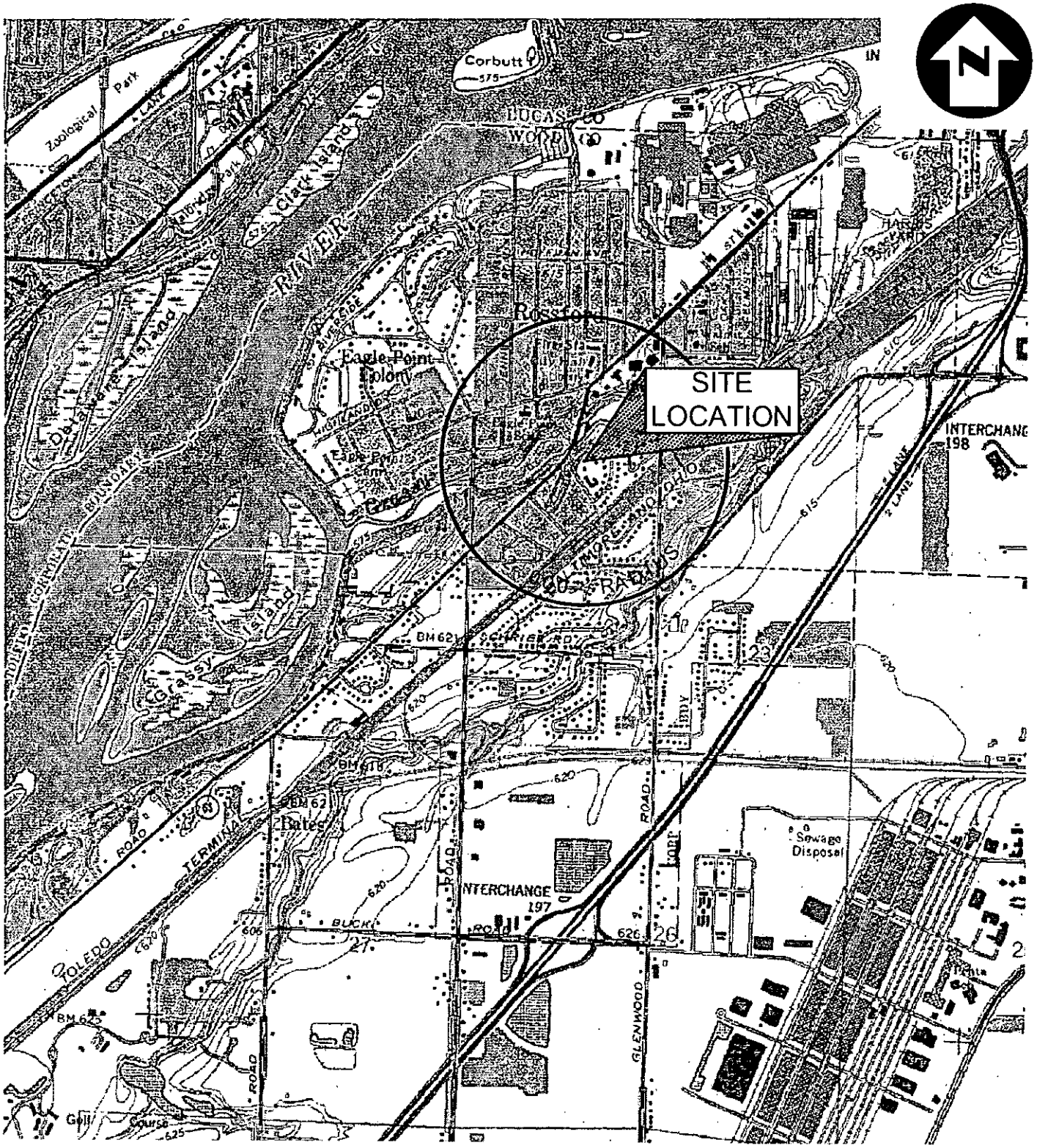
TABLE 6
BIOSCREEN MODEL INPUT
BENZENE, ETHYLBENZENE AND MTBE MIGRATION
Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Data Type	BUSTR SSTL Spreadsheet and Bioscreen Input Value	Justification
1.0 Hydrogeology		
Hydraulic Conductivity (cm/sec)	3.9×10^{-5}	Highest conductivity from slug tests conducted on wells advanced into native materials (MW-4).
Hydraulic Gradient (ft/ft)	0.09	Hydraulic gradient from most impacted well, MW-4, to monitoring well MW-8.
Effective Porosity (unitless)	0.3	BUSTR default for CL or ML soils.
2.0 Dispersion		
Estimated Plume Length (feet)	40	Average distance to wells with non detectable concentrations of COCs.
3.0 Adsorption		
Soil Bulk Density (kg/l)	1.7	BUSTR default for CL or ML soils.
Partition Coefficient for benzene (L/kg)	58.9	BUSTR default value.
Partition Coefficient for ethylbenzene (L/kg)	363	BUSTR default value.
Partition Coefficient for MTBE (L/kg)	12	BUSTR default value.
Fractional Organic Carbon (goc/gs)	0.012	Corrected TOC value as per BUSTR.
4.0 Biodegradation		
Solute Half Life for Benzene (year)	1.97	BUSTR default value.
Solute Half Life for Ethylbenzene (year)	0.62	BUSTR default value.
Solute Half Life for MTBE (year)	0	BUSTR default value.
5.0 General		
Modeled Area Length (feet)	250	Based on distance to point of exposure
Modeled Area Width (feet)	30	Estimated based on Figure 5.
Simulation Time (years)	30	Conservative default value.
6.0 Source Data		
Source Thickness (feet)	10	BUSTR default value.
Source Width (feet)	20	Estimated based on Figure 5.
Source Concentration Benzene (mg/l)	3.6	The maximum concentration detected (MW-4).
Source Concentration Ethylbenzene (mg/l)	2.3	The maximum concentration detected (MW-4).
Source Concentration MTBE (mg/l)	1.8	The maximum concentration detected (MW-4).
Source Half Life (years)	Infinite	Most conservative assumption.
7.0 Field Data for Comparison		
Benzene	3.6 mg/l	Source concentration.
	< 0.001 mg/l	Concentration in MW-5 approximately 40 feet down gradient of source.
	< 0.001 mg/l	Concentration in MW-8 approximately 60 feet down gradient of source.
Ethylbenzene	2.3 mg/l	Source concentration.
	< 0.001 mg/l	Concentration in MW-5 approximately 40 feet down gradient of source.
	< 0.001 mg/l	Concentration in MW-8 approximately 60 feet down gradient of source.
MTBE	1.8 mg/l	Source concentration.
	0.630 mg/l	Concentration in MW-5 approximately 40 feet down gradient of source.
	0.012 mg/l	Concentration in MW-8 approximately 60 feet down gradient of source.

TABLE 7
CALCULATED SITE SPECIFIC TARGET LEVELS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Pathways of Concern/Chemicals of Concern	Highest Concentration (mg/kg))	Future Residential Calculated SSTL (mg/kg)	Exceedence
Soil to Indoor Air - Benzene	1.7	3.41	NO



2000 1000 0 2000

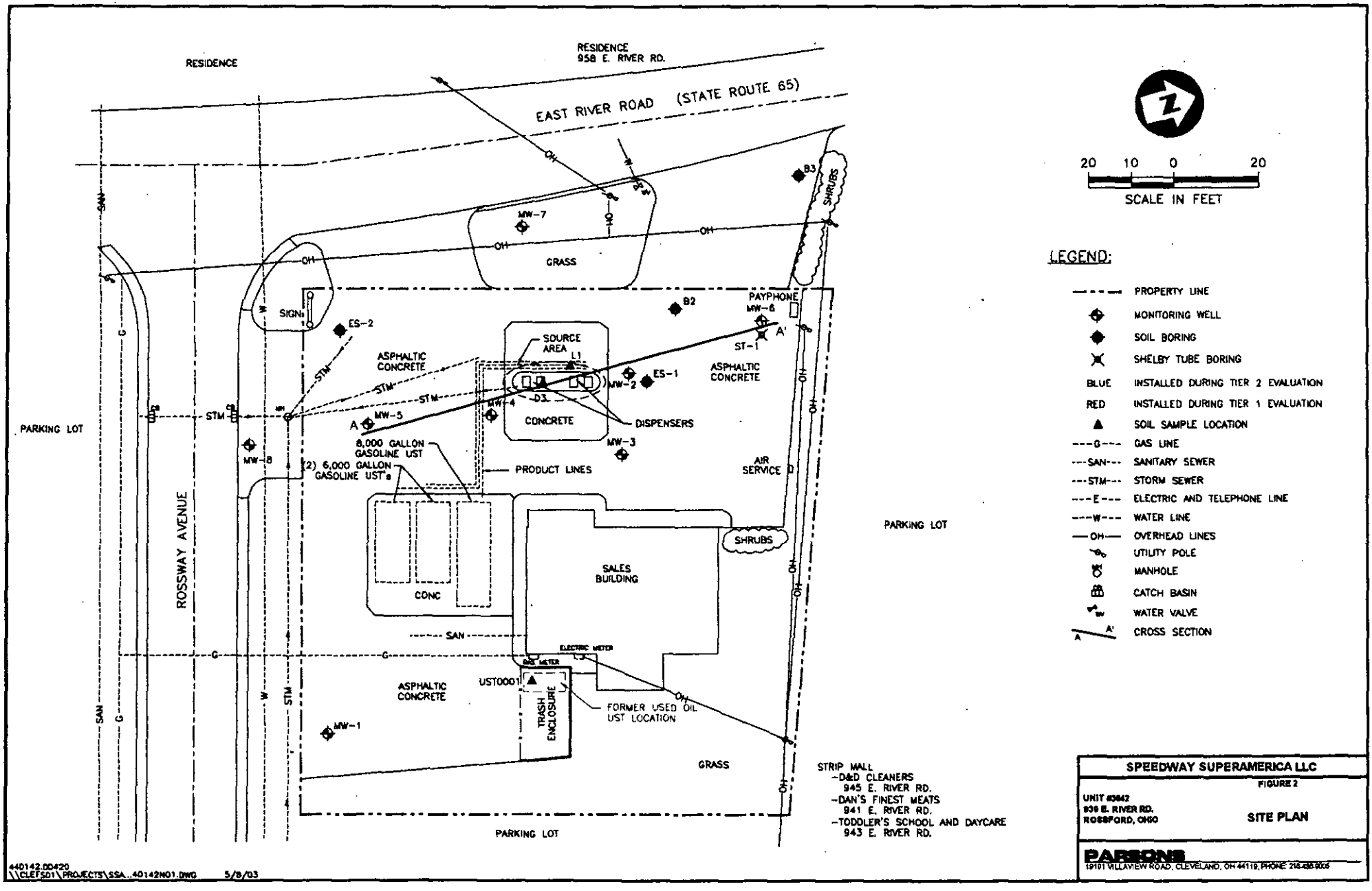
SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

SPEEDWAY SUPERAMERICA LLC	
UNIT #3642 939 E. RIVER RD. ROSSFORD, OHIO	FIGURE 1 SITE LOCATION MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

440142.00420
\\CLEFS01\PROJECTS\SSA...40142SLM.DWG 5/8/03



440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03

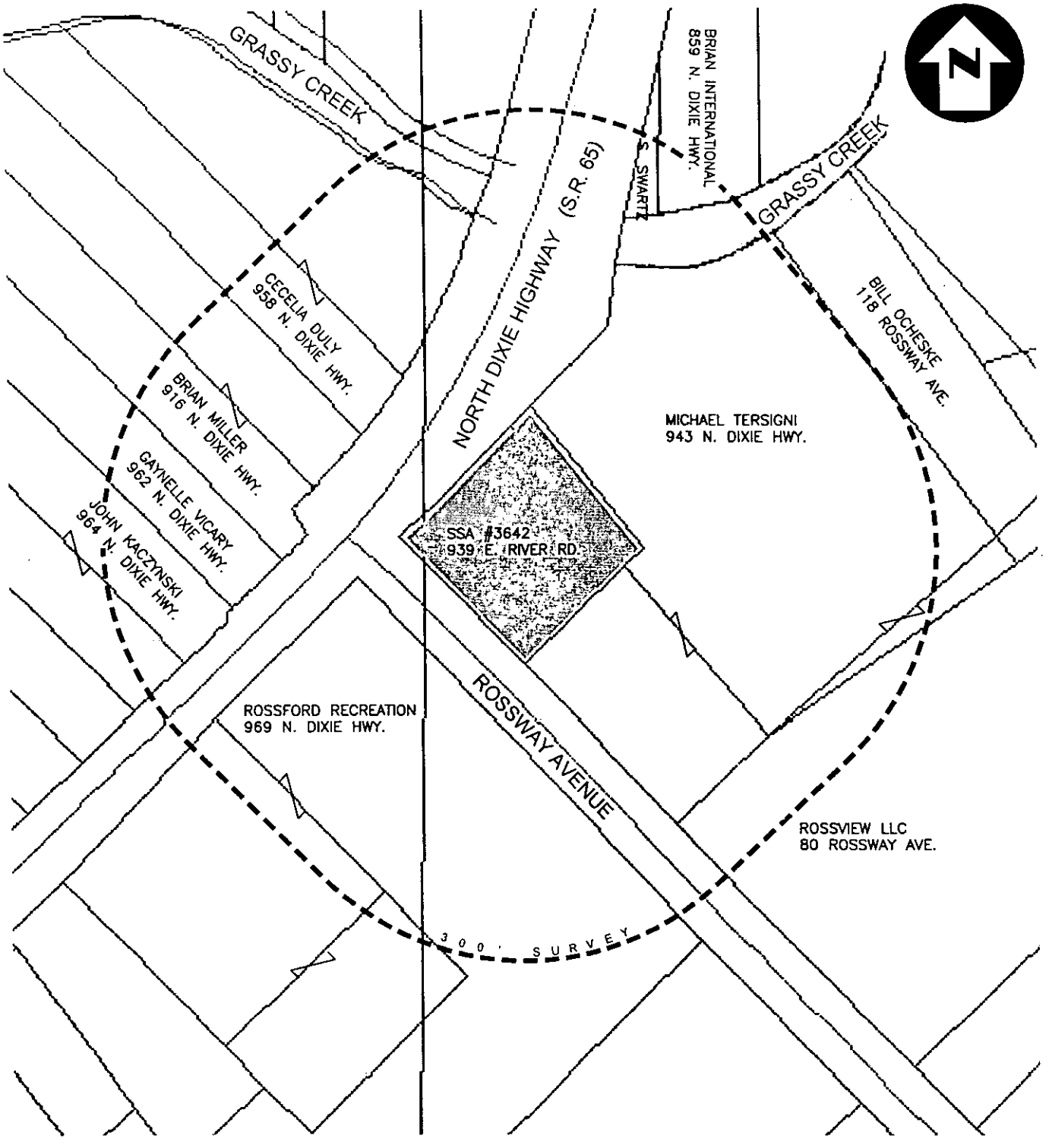
SPEEDWAY SUPERAMERICA LLC

FIGURE 2

UNIT #3942
939 E. RIVER RD.
ROSSFORD, OHIO

SITE PLAN

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216.485.8005



150 75 0 150

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

440142.01000
\\CLEFS01\P:\SSA...40142SPM.DWG 5/8/03

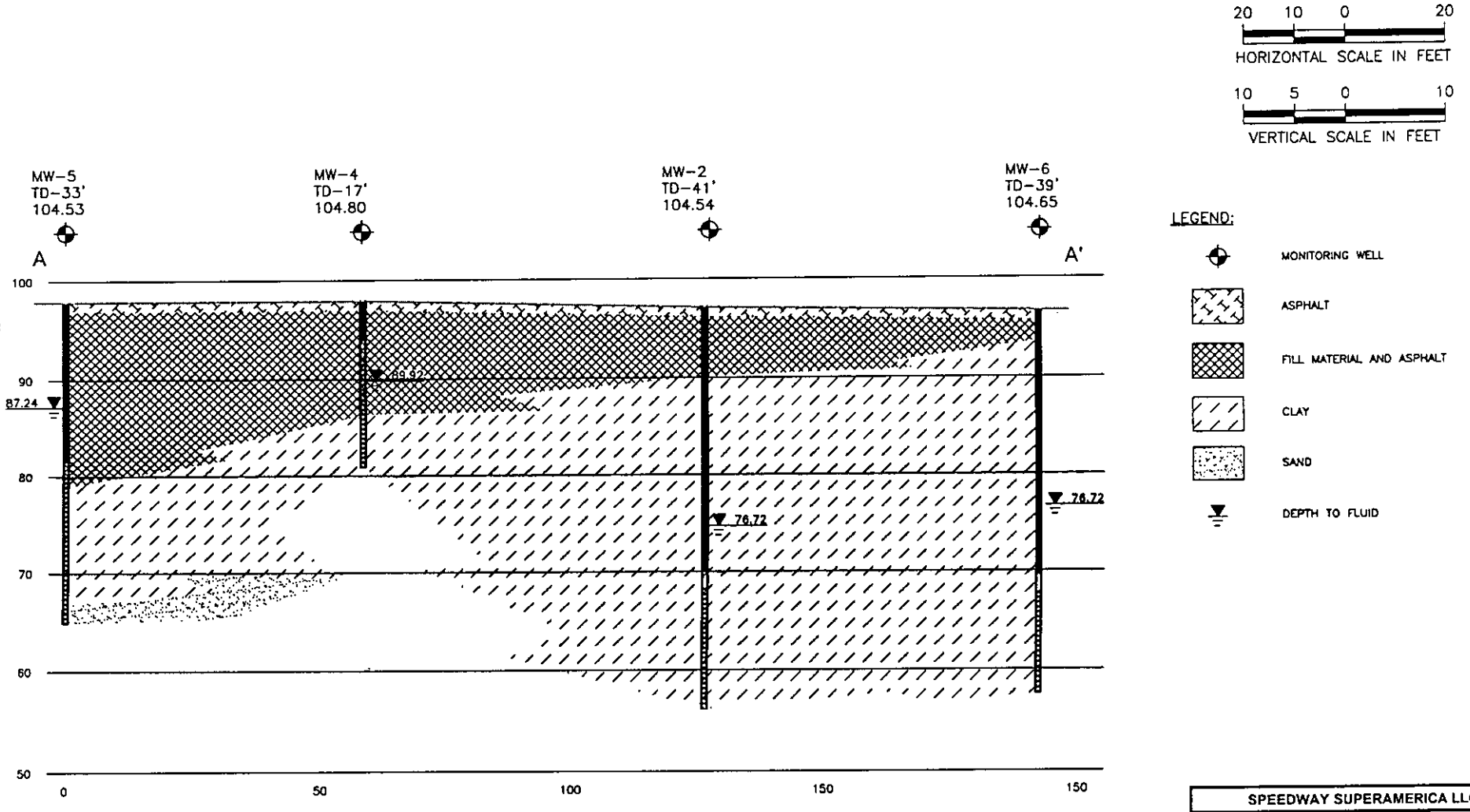
SPEEDWAY SUPERAMERICA LLC

FIGURE 3

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SURROUNDING PROPERTIES MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005



SPEEDWAY SUPERAMERICA LLC

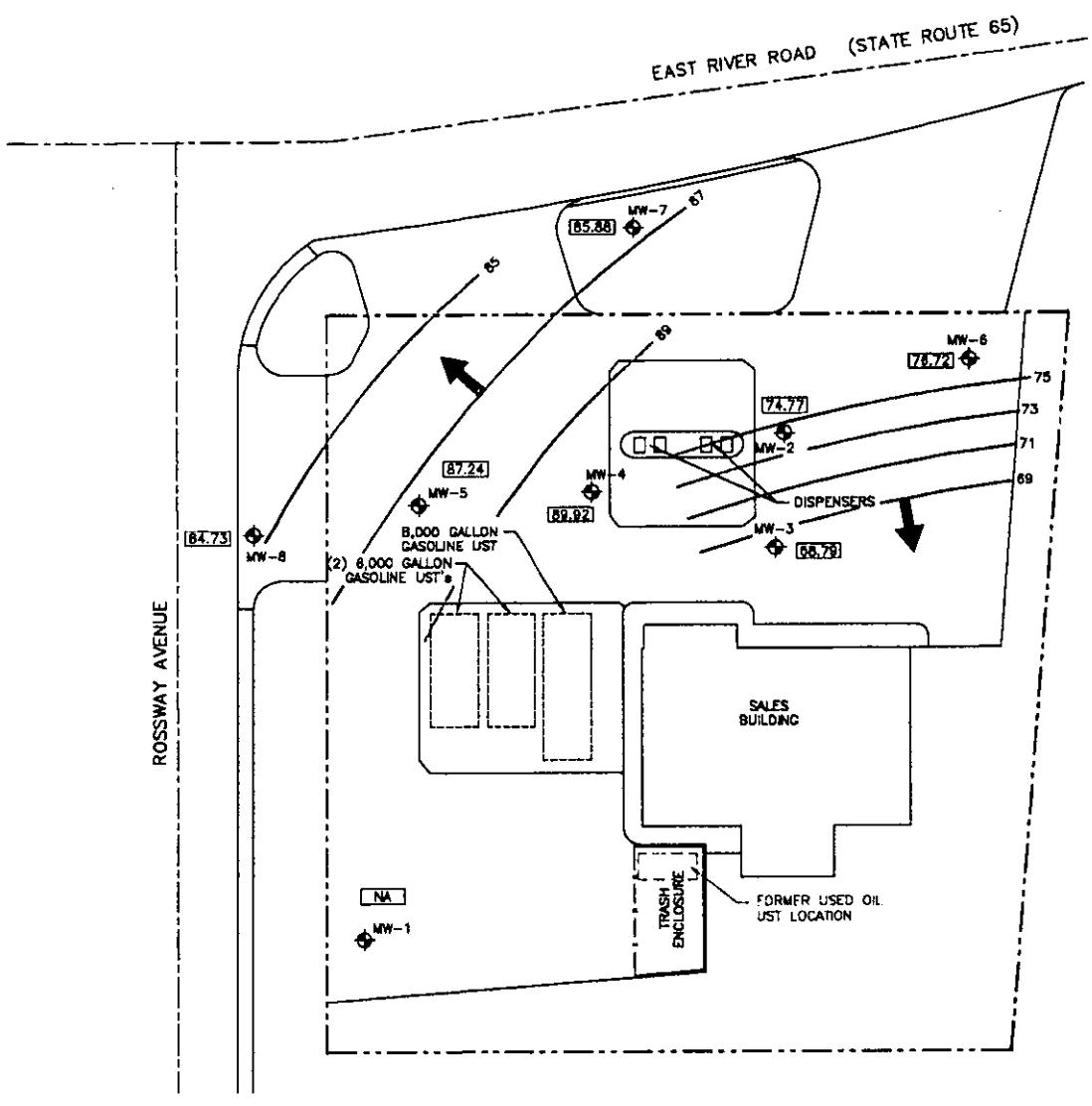
FIGURE 4

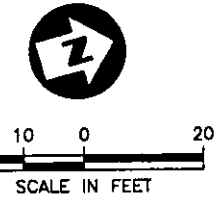
UNIT #3542
939 E. RIVER RD.
ROSSFORD, OHIO

CROSS SECTION A-A'

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

440142.00420
\\CLEFS01\PROJECTS\SSA...40142XSEC.DWG 5/8/03





LEGEND:

- PROPERTY LINE
- MONITORING WELL

BLUE — INSTALLED DURING TIER 2 EVALUATION

RED — INSTALLED DURING TIER 1 EVALUATION

SHALLOW SATURATED ZONE

- 85.88 — RELATIVE GROUNDWATER ELEVATION (FEET)
- 87 — EQUIPOTENTIAL CONTOUR LINE (2 FOOT CONTOUR INTERVAL)
- GROUNDWATER FLOW DIRECTION

DEEP SATURATED ZONE

- 76.72 — RELATIVE GROUNDWATER ELEVATION (FEET)
- 71 — EQUIPOTENTIAL CONTOUR LINE (2 FOOT CONTOUR INTERVAL)
- GROUNDWATER FLOW DIRECTION

SPEEDWAY SUPERAMERICA LLC

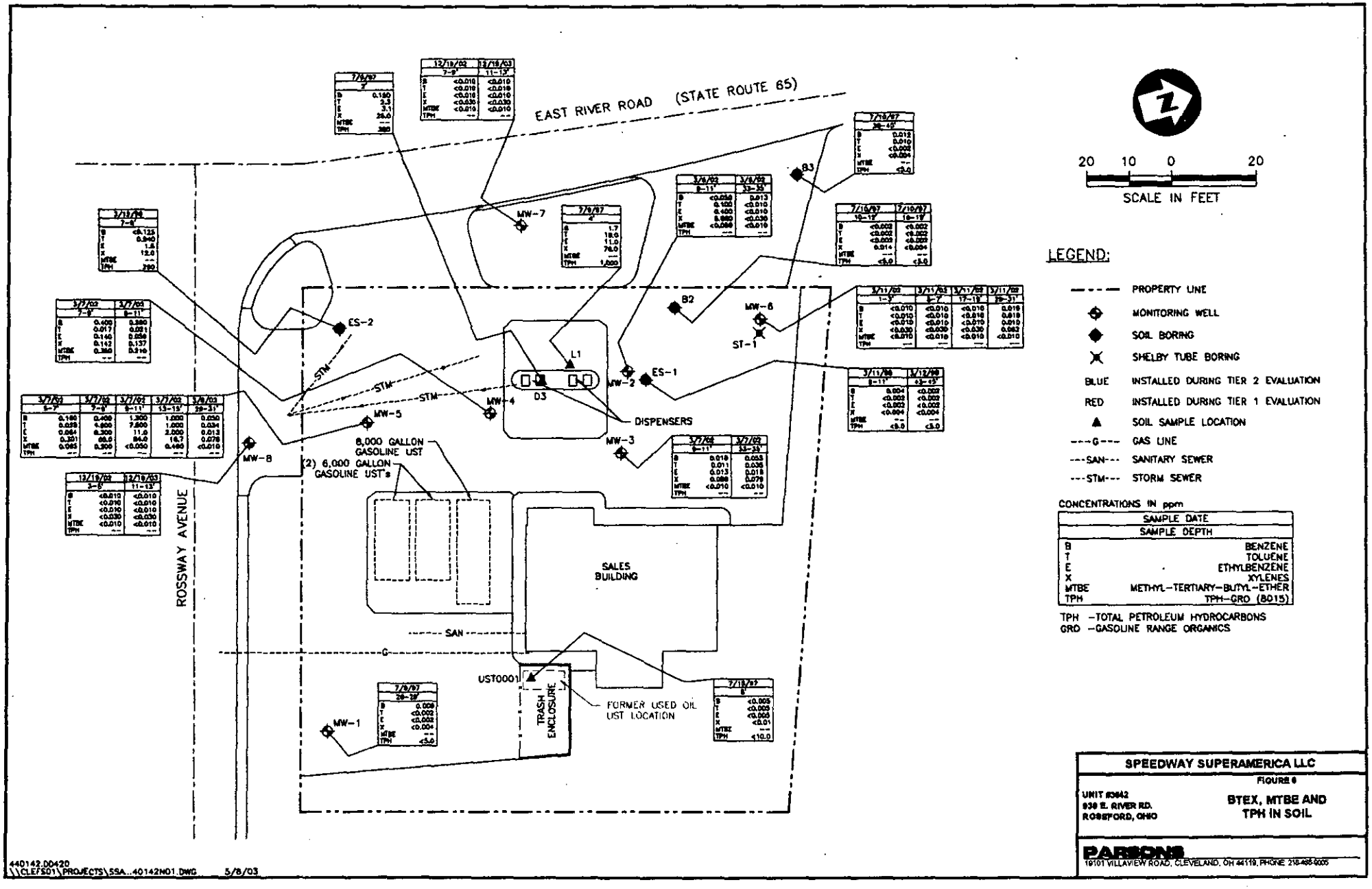
FIGURE 5

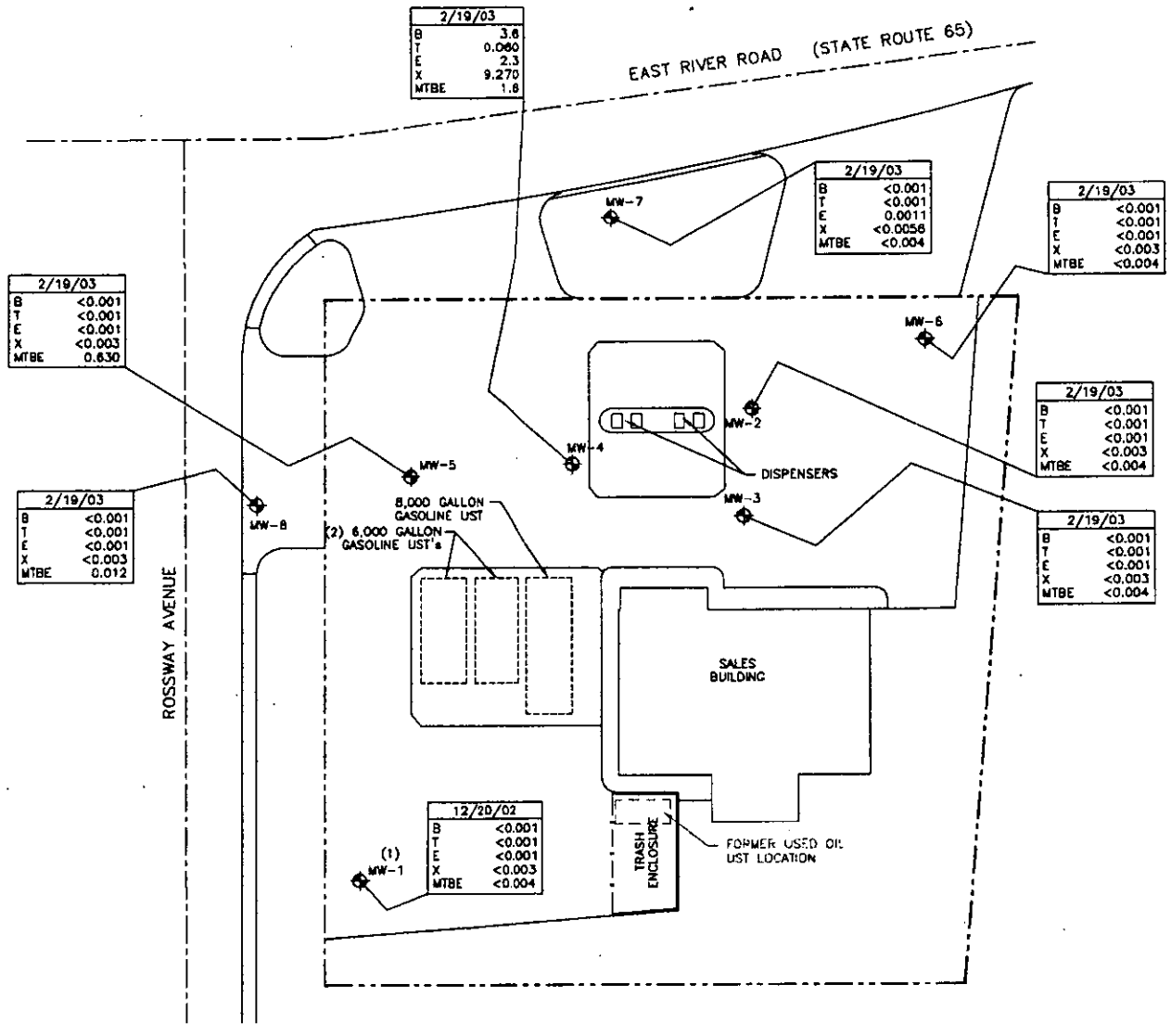
UNIT #3842
839 E. RIVER RD.
ROSSFORD, OHIO

POTENTIOMETRIC SURFACE MAP
19 FEBRUARY 2003

PARSONS

440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03


EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
ES-1
ES-2
B2
B3
ST-1
D3
L1
STM
SAN
G
DISPENSERS
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE UST's
SALES BUILDING
TRASH ENCLOSURE
UST0001
FORMER USED OIL UST LOCATION
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
SOIL BORING
SHELBY TUBE BORING
BLUE INSTALLED DURING TIER 2 EVALUATION
RED INSTALLED DURING TIER 1 EVALUATION
SOIL SAMPLE LOCATION
GAS LINE
SANITARY SEWER
STORM SEWER
CONCENTRATIONS IN ppm
SAMPLE DATE
SAMPLE DEPTH
B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
MTBE METHYL-TERTIARY-BUTYL-ETHER
TPH TPH-GRO (8015)
TPH -TOTAL PETROLEUM HYDROCARBONS
GRO -GASOLINE RANGE ORGANICS
SPEEDWAY SUPERAMERICA LLC
FIGURE 6
UNIT #3642
938 E. RIVER RD.
ROSSFORD, OHIO
BTEX, MTBE AND TPH IN SOIL
PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216-486-0005
440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03



20 10 0 20

SCALE IN FEET

LEGEND:

PROPERTY LINE

MONITORING WELL

BLUE INSTALLED DURING TIER 2 EVALUATION

RED INSTALLED DURING TIER 1 EVALUATION

CONCENTRATIONS IN ppm

SAMPLE DATE	
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHYL-TERTIARY-BUTYL-ETHER

(1) WELL LOCATION COVERED BY SNOW PILE. 20 DECEMEBER 2002 DATA PRESENTED.

SPEEDWAY SUPERAMERICA LLC

FIGURE 7

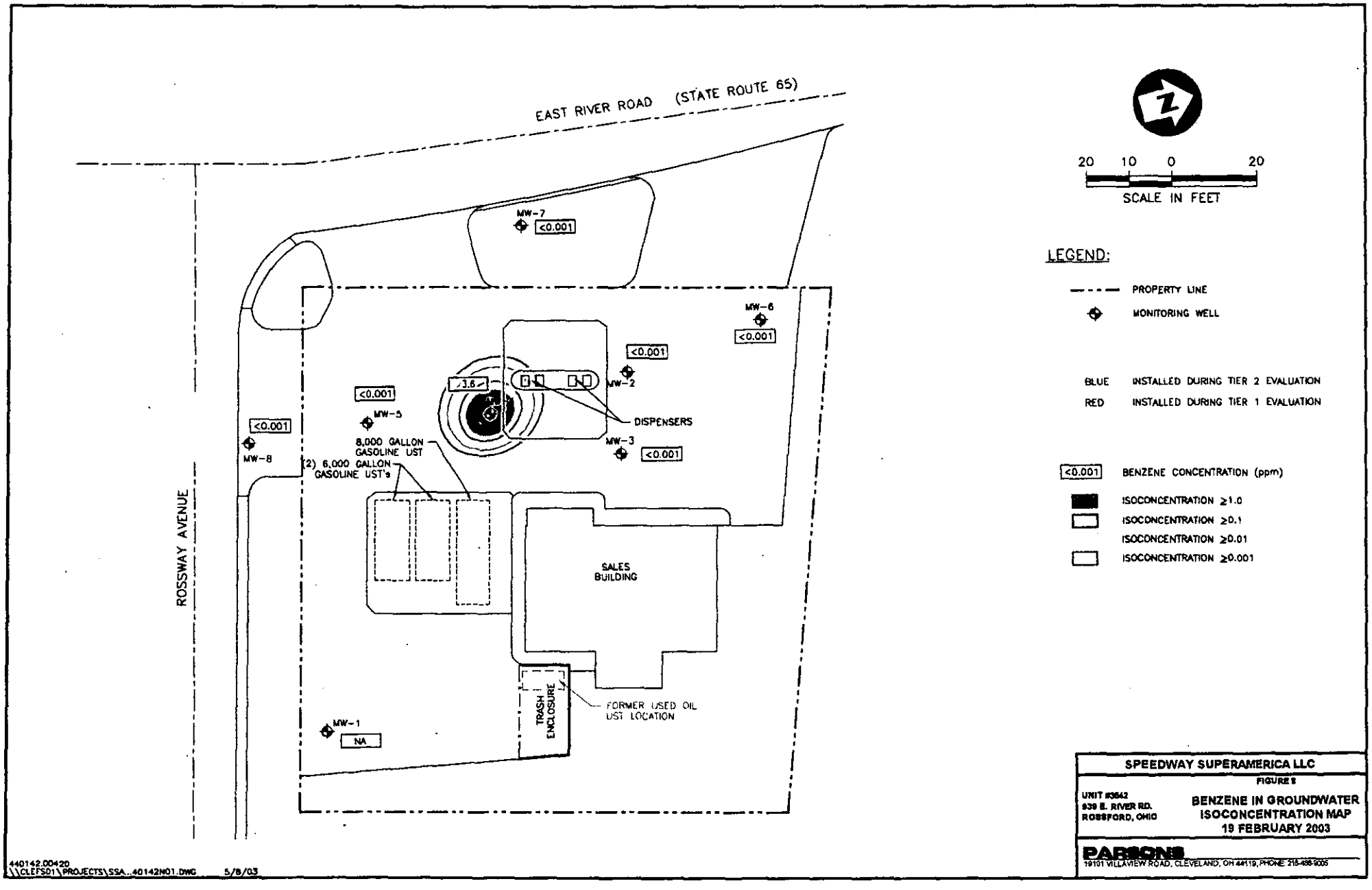
UNIT #3842
939 E. RIVER RD.
ROSSFORD, OHIO

BTEX AND MTBE IN GROUNDWATER 19 FEBRUARY 2003

PARSONS

19131 V AVE ROAD E. EVE AND OH 44113 PHONE 216 498 9355

440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03



SPEEDWAY SUPERAMERICA LLC

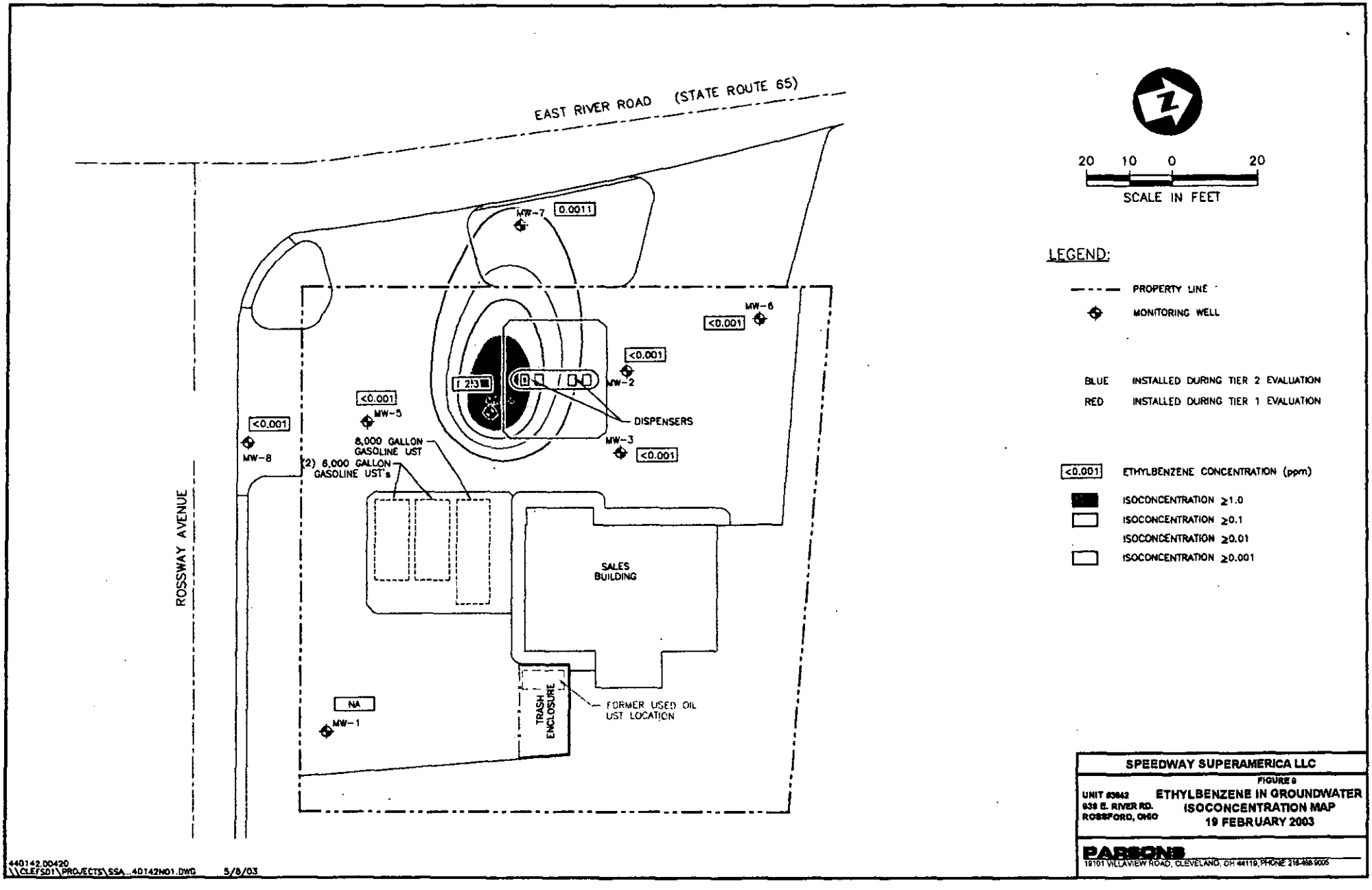
FIGURE 8

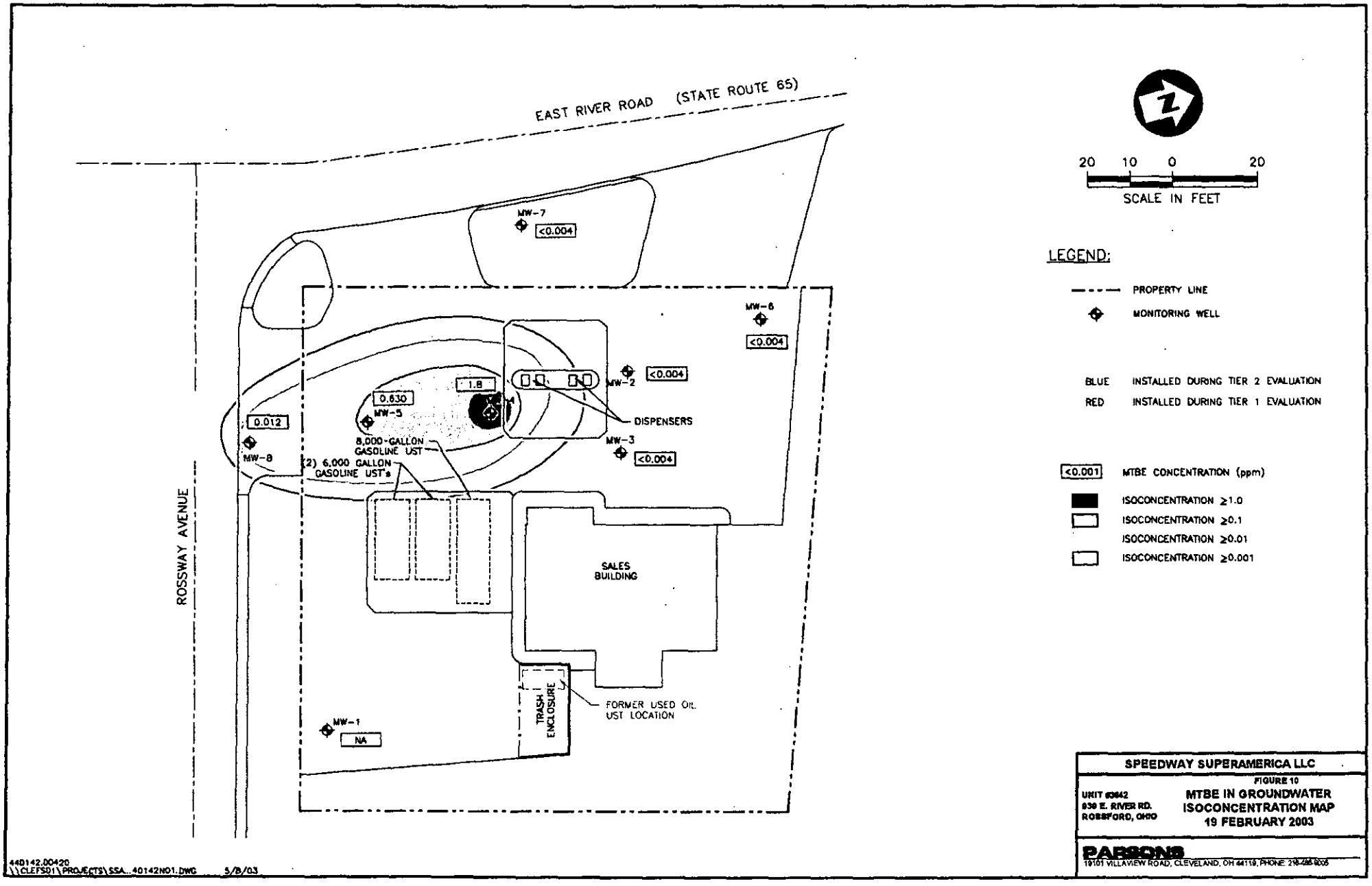
UNIT #3542
839 E. RIVER RD.
ROSSFORD, OHIO

BENZENE IN GROUNDWATER
ISOCONCENTRATION MAP
19 FEBRUARY 2003

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216-486-9005

440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03


EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
MW-7
0.0011
MW-6
<0.001
MW-2
<0.001
MW-5
<0.001
MW-8
<0.001
1 2 3
DISPENSERS
8,000 GALLON GASOLINE UST
(2) 8,000 GALLON GASOLINE UST's
MW-3
<0.001
SALES BUILDING
TRASH ENCLOSURE
FORMER USED OIL UST LOCATION
NA
MW-1
N
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
BLUE INSTALLED DURING TIER 2 EVALUATION
RED INSTALLED DURING TIER 1 EVALUATION
<0.001 ETHYLBENZENE CONCENTRATION (ppm)
ISOCONCENTRATION ≥1.0
ISOCONCENTRATION ≥0.1
ISOCONCENTRATION ≥0.01
ISOCONCENTRATION ≥0.001
SPEEDWAY SUPERAMERICA LLC
FIGURE 8
UNIT #3942
639 E. RIVER RD.
ROSSFORD, OHIO
ETHYLBENZENE IN GROUNDWATER
ISOCONCENTRATION MAP
19 FEBRUARY 2003
PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216-488-9005
440142.00420
\\CLEFS01\PROJECTS\SSA...40142N01.DWG 5/8/03



SPEEDWAY SUPERAMERICA LLC

FIGURE 10

UNIT #3942
838 E. RIVER RD.
ROSSFORD, OHIO

MTBE IN GROUNDWATER
ISOCONCENTRATION MAP
19 FEBRUARY 2003

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

44B142.00420
\\CLEFSD1\PROJECTS\SSA...40142N01.DWG 5/8/03

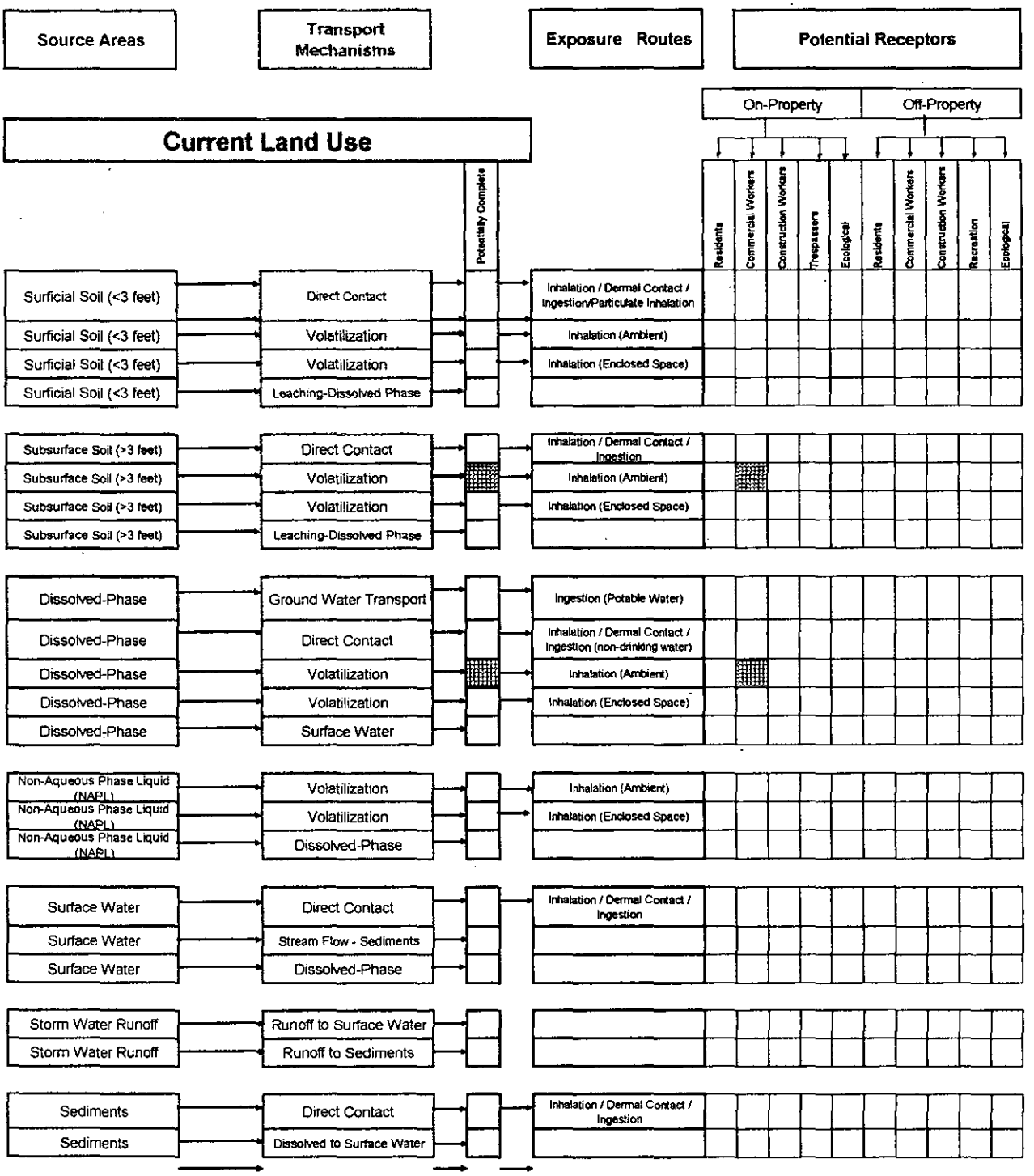


FIGURE 11 : CONCEPTUAL SITE EXPOSURE MODEL - CURRENT LAND USE

SSA Unit #3642
939 East River Road
Rossford, Ohio

The pathway is not completed.

The pathway is completed, but SSTL's are not calculated (see text).

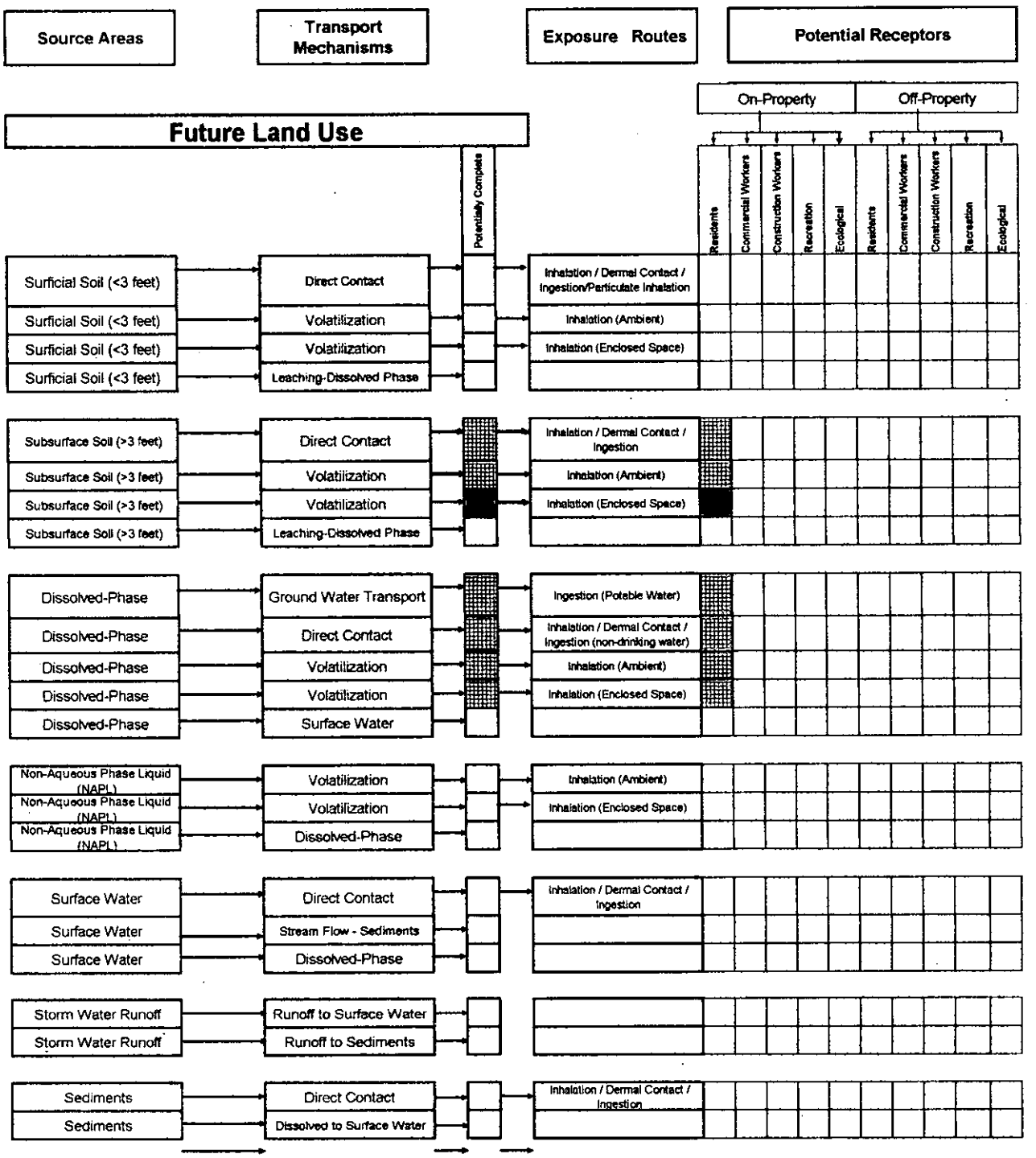


FIGURE 12: CONCEPTUAL SITE EXPOSURE MODEL - FUTURE LAND USE

SSA Unit #3642
939 East River Road
Rossford, Ohio

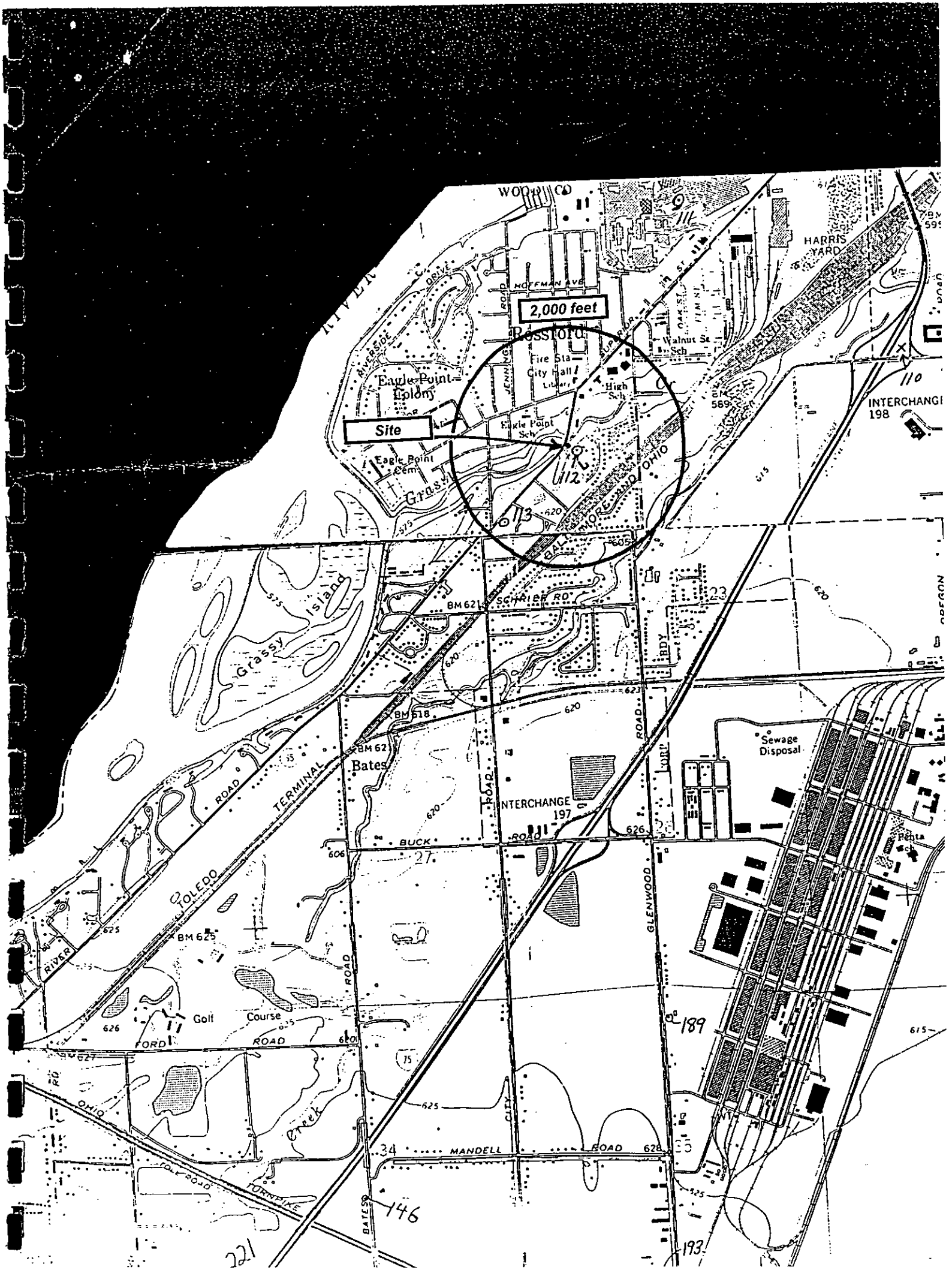
The pathway is not completed.

The pathway is completed, but SSTLs are not calculated (see text).

SSTLs are calculated for the pathway.

APPENDIX A

ODNR WATER WELL LOG SEARCH, SURROUNDING PROPERTIES WELL SEARCH, ENDORSED WELL HEAD PROTECTION AREAS, SOLE SOURCE AQUIFERS, AND URBAN SETTING DESIGNATIONS


2,000 feet
Site
Rossford
Eagle Point Colony
Eagle Point Sch
Eagle Point Cem
Fire Sta
City Hall
Library
High Sch
Walnut St Sch
HARRIS YARD
INTERCHANGE 198
Grassy Island
Bates
BM 621
BM 618
BM 625
SCHRIBER RD
BUCK ROAD
TERMINAL ROAD
TOLEDO
RIVER
INTERCHANGE 197
Sewage Disposal
Penta
GLENWOOD
Golf Course
FORD ROAD
OHIO
Creek
MANDELL ROAD
TURNPIKE
BATES RD
BALTIMORE AND OHIO
RIVERSIDE DRIVE
HOFFMAN AVE
OAK ST
WOOD CO
146
221
193
189

ORIGINAL

LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No. 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohi

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4¼ Length of casing 81' 4"
Type of screen none Length of screen
Type of pump 1/2 H.P. Sub
Capacity of pump 15 G.P.M.
Depth of pump setting 120 ft.
Date of completion 11/30/1967

BAILING OR PUMPING TEST

Pumping Rate 20 G.P.M. Duration of test 3 hrs.
Drawdown 10 ft. Date 11/21/1967
Static level-depth to water 75 ft.
Quality (clear, cloudy, taste, odor) clear

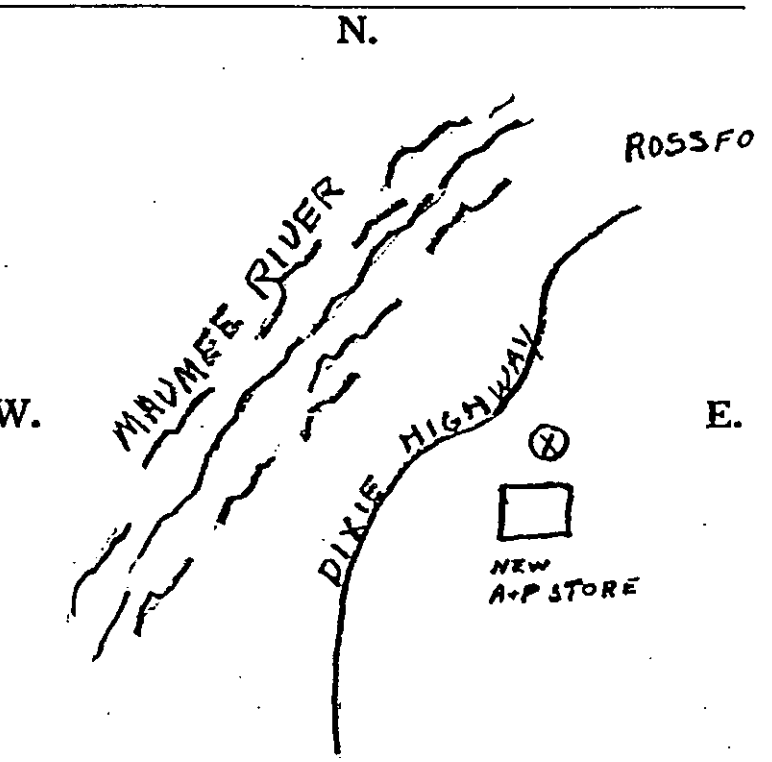
Pump installed by Larson Drilling & Mach. Inc

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft.
Soft Blue Clay	35 ft.	65 ft.
Hard Pan	65 ft.	70 ft.
Soft Blue Clay	70 ft.	77 ft.
Broken Brown Lime	77 ft.	80 ft.
Hard Brown Lime	80 ft.	102 ft.
Hard Gray Lime	102 ft.	115 ft.
Light Brown Lime	115 ft.	130 ft.
Tan Brown Lime	130 ft.	161 ft.
Hard Brown Lime	161 ft.	166 ft.
Blueish Gray Lime Hard Traverse	166 ft.	191 ft.
Light Brown Lime	191 ft.	201 ft.

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Larson Drilling & Mach. Inc. Date 1/16/1968

Address 211 W. Sophia St. Maumee, Ohio Signed

*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

EV-5-2723

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 238621

County Wood Township Rossford Section of Township Lot #19

Owner Lewis Danford Address 1125 Elm Tree Rd. Rossford, Ohio

Location of property Lewis St., Rossford, Ohio

CONSTRUCTION DETAILS

Casing diameter 4½" I.D. Length of casing 70'

Type of screen ..... Length of screen .....

Type of pump ¾ H.P. 2 stage Jet

Capacity of pump 170 G.P.H. at 120 ft.

Depth of pump setting 150 ft

Date of completion Nov. 27 - 1959

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test 2 hrs.

Drawdown 85 ft. Date Nov. 27, 1959

Developed capacity 480 G.P.H. at 150 ft.

Static level—depth to water 65 ft.

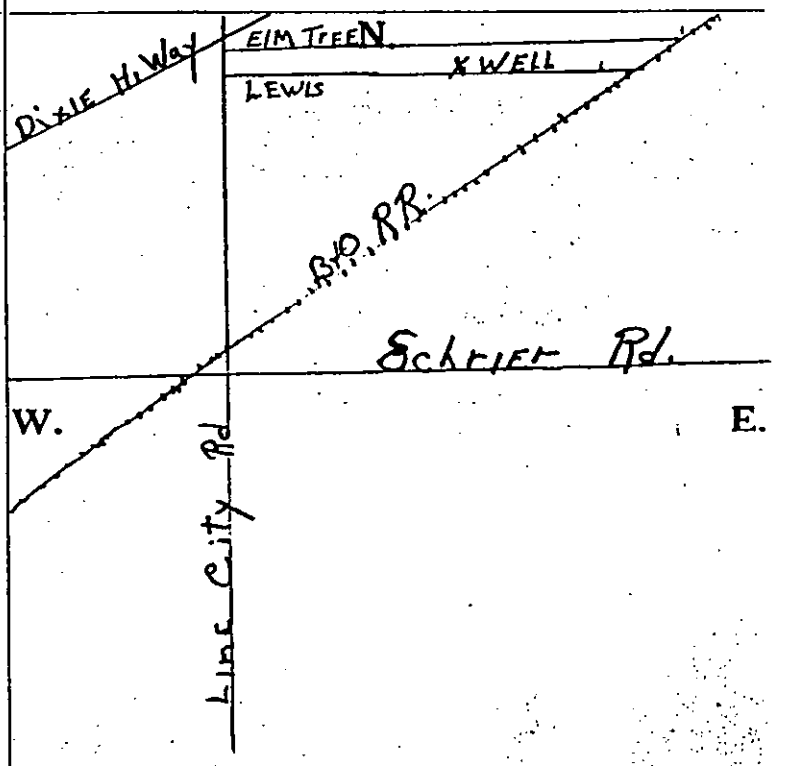
Pump installed by Wendell Bihn

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To ..... Ft.
Clay	0	65
LIME STONE	65	176

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Bihn's Well Drilling Date Nov. 27 1959

Address Walbridge Ohio Signed Wendell Bihn

113

Netscape Mail Maps IM Search Shopping Netscape Presents:

Online water well search

MAPQUEST

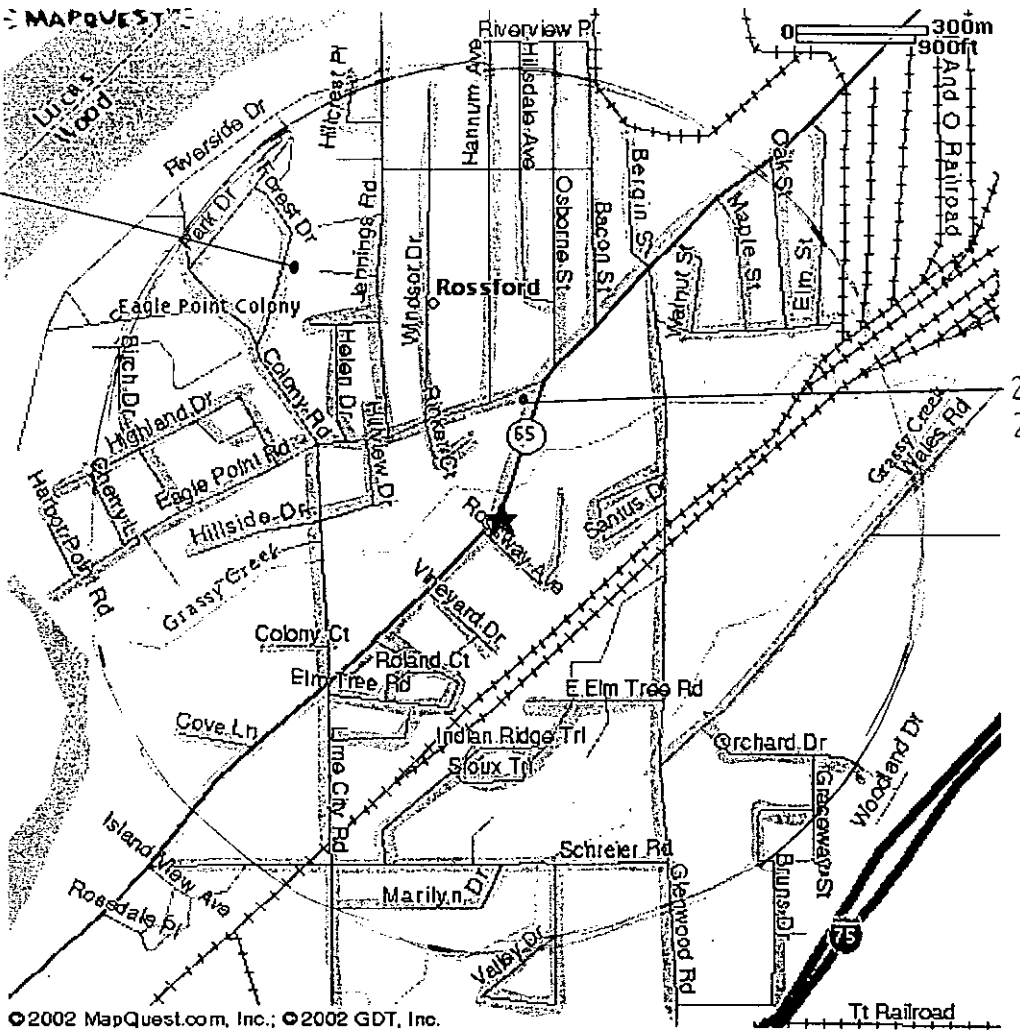
939 Dixie Hwy
Rossford, OH
43460-1332, US

SEND TO PRINTER

Back

118 Forest

27207 Dixie (g.v.)
26520 " (g.v.)



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NAVTECH ON BOARD

MAPQUEST
where to go
how to get there!

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Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

26980 65, MIKE SERVOSS, 876393

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

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Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

21378 DIXIE HIGHWAY, TIM MILLER, 664232
23960 DIXIE HIGHWAY, JOHN FOX, 788540
24153 DIXIE HIGHWAY, RONALD EUTON, 765063
24525 DIXIE HIGHWAY, CLARENCE RUSSELL, 845500
24750 DIXIE HIGHWAY, MARVIN ADAMS, 622744
25303 DIXIE HIGHWAY, IMOGENE BORNES, 793093
26520 DIXIE HIGHWAY, KELLY'S DELI, 684136
27207 DIXIE HIGHWAY, KING EQUIPMENT, 611920
DIXIE HIGHWAY, CHAS LOBER, 26403
DIXIE HIGHWAY, MELVIN GALLART, 71173
DIXIE HIGHWAY, CARL ECKEL, 79242
DIXIE HIGHWAY, ROBERT MARTIN, 79835
DIXIE HIGHWAY, EARL HILTNER, 92299
DIXIE HIGHWAY, GLEN BOOS, 97032
DIXIE HIGHWAY, MEAD, 97033
DIXIE HIGHWAY, LEONARD HULL, 97034
DIXIE HIGHWAY, JIM LEONALD, 97035
DIXIE HIGHWAY, SCRERAME, 97036
DIXIE HIGHWAY, CRISS LEYDORP, 97038
DIXIE HIGHWAY, SOUTH DIXIE SUPPLY, 97054
DIXIE HIGHWAY, ROBERT HENSCHEN, 124650
DIXIE HIGHWAY, BEN PARRISH, 126062
DIXIE HIGHWAY, VICTOR PYERES, 127894
DIXIE HIGHWAY, FRED EKEL, 173546
DIXIE HIGHWAY, ROBERT HALBERT, 206401
DIXIE HIGHWAY, MERLIN MOSER, 206433
DIXIE HIGHWAY, CATIPILLAR TRACTOR C, 209098
DIXIE HIGHWAY, OCLEY MCMULLEN, 212865
DIXIE HIGHWAY, BLUE BIRD HOMES, 273284
DIXIE HIGHWAY, W SMITH, 334670
DIXIE HIGHWAY, JOHN MEIER, 342921
DIXIE HIGHWAY, WE SMITH & SONS, 359061
DIXIE HIGHWAY, ROBERT DESTATE, 362525
DIXIE HIGHWAY, FRED BOSTLEMAN CO., 375562
DIXIE HIGHWAY, JOHN CHRISTOFF, 393029
DIXIE HIGHWAY, MAXWELL & ASSOCIATES, 429980
DIXIE HIGHWAY, DON DUHAMMEL, 592828
DIXIE HIGHWAY, CHRIS HAAS, 770029
DIXIE HIGHWAY, JOHN CHRISTOFF, 9987035

Maps Quest and Maps On Us Couldn't find Lorain Owner's address

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Water Well Log
Select A Road

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Back to Technical Services Section Main Page

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Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

LIME CITY/REITZ, MARTIN HAAS, 129800

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

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Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

LIME CITY/SCHROEDER, FRED MORLOCK, 547348

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Water Well Log
Select A Road

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Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

MARILYN, JAMES MARTIN, 65620
MARILYN, ERVIN RHODES, 65621
MARILYN, MAX MITSCHING, 78401
MARILYN, FRED AGEE, 78415

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Water Well Log
Select A Road

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Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

SCHREIER, WM COMPTON, 26426
SCHREIER, RALPH BARKER, 99562
SCHREIER, ROY INMAN, 164485

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Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

GLENWOOD/SCHREIER, ARTHUR SARVER, 26415
GLENWOOD/SCHREIER, JAMES SARVER, 78438

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Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

ELM TREE, FRANK PASTOREK, 285383

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Water Well Log
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Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

HELEN, DAVID RUSSEL, 238632

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Enter Search Term:

Water Well Log
Select A Road

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Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

19312 GLENWOOD, ROBERT BUSH, 506163
26072 GLENWOOD, RW SERVICES INC., 724269
26250 GLENWOOD, DUKE HAAS, 797316
26408 GLENWOOD, NUTRI SOIL SYSTEMS, 936501
26624 GLENWOOD, FRED WYCKOFF, 592818
26670 GLENWOOD, SANDALWOOD BUSINESS, 902698
26692 GLENWOOD, JAMES BALDWIN, 655249
26692 GLENWOOD, JAMES BALDWIN, 664229
26898 GLENWOOD, MICHAEL VALERINS, 725079
26898 GLENWOOD, DEBRA VALERIUS, 879440
26924 GLENWOOD, STEVE KANAAR, 611220
26924 GLENWOOD, SAM MEYERHOLTZ, 902696
26950 GLENWOOD, MARIETTA SIEFERT, 513055
27200 GLENWOOD, GIBEL ELECTRIC, 557539
27811 GLENWOOD, STEPHEN/BRENDA COX, 702543
GLENWOOD, PHEBE HOAS, 26437
GLENWOOD, LEI SARVER, 78439
GLENWOOD, RICHARD BECK, 79845
GLENWOOD, B MILLS, 139860
GLENWOOD, ROBERT FRANTZ, 164466
GLENWOOD, FOREST SARVER, 195897
GLENWOOD, ROBERT GOEBEL, 195900
GLENWOOD, BENIE HOORELBEKE, 206404
GLENWOOD, CHESTER SCHULTZ, 238605
GLENWOOD, ROBERT SABO, 262464
GLENWOOD, LEON SEHRAMM, 273283
GLENWOOD, CLARENCE HERMAN, 295960
GLENWOOD, ROBERT FORTER, 311552
GLENWOOD, JOSEPH SALOVARIA, 311573
GLENWOOD, WYCKOFF, 320214
GLENWOOD, B & R MILLS, 320221
GLENWOOD, GLEN REITZEL, 331563
GLENWOOD, ARTHUR CLEMENTS, 332875
GLENWOOD, CITY FIRE EQUIPMENT, 396428
GLENWOOD, DYNA LITE CORP, 396435
GLENWOOD, SERVICE SPRING, 433951
GLENWOOD, C.P.H. CREDIT UNION, 487329
GLENWOOD, BRUNS FLORIST&GREENH, 506200
GLENWOOD, CHAS REITZEL, 519918
GLENWOOD, TRI-STATE EXPEDITED, 651108
GLENWOOD, JEFF MALONE, 821986
GLENWOOD, KENNETH HAAS, 848557
GLENWOOD, CECIL FOOTE, 9987115

Maps Can't + Map Point Could not locate exact addresses.

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

23983 LIME CITY, VERNON WARNS, 788566
25037 LIME CITY, NICHOLAS HAAS, 621975
25221 LIME CITY, RICHARD LEE, 776347
25920 LIME CITY, DOROTHY LEBAY, 725078
26416 LIME CITY, TONY KNIGHT, 743622
26932 LIME CITY, C SAWYER, 621998
27696 LIME CITY, PHINES MACDONALD, 557545
28897 LIME CITY, KEN BYLOW, 421567
29058 LIME CITY, HOMER PAYNE, 632517
29392 LIME CITY, NORMAN BROSSIA, 621967
29461 LIME CITY, ARTHUR BROSSEA, 611234
29901 LIME CITY, NANCY ROGERS, 797155
29901 LIME CITY, NANCY ROGERS, 797156
29921 LIME CITY, JOHN AUSSOR, 800176
262281 LIME CITY, HOWARD CUNNINGHAM, 622000
LIME CITY, BLAIR HRURY, 56797
LIME CITY, CHAS TIMMEY, 56798
LIME CITY, JOHN BURKARD, 79832
LIME CITY, RONALD HENRY, 79847
LIME CITY, LIME CITY HALL, 92268
LIME CITY, CARL SHRAMMER, 104373
LIME CITY, BERNARD CHESTER, 104380
LIME CITY, FRANK HAAS, 120015
LIME CITY, RUSSELL WATSON, 120029
LIME CITY, GLEN HANELY, 122483
LIME CITY, JOHN BAKER, 122492
LIME CITY, LYLE ECKEL, 122494
LIME CITY, JOSEPH KOPP, 122497
LIME CITY, JOE HARRIS, 128852
LIME CITY, VERMON CARSTANSON, 139884
LIME CITY, EARL MCDONALD, 139890
LIME CITY, HUBER BRIMACOMBE, 164451
LIME CITY, CLEMET HUSSAR, 164471
LIME CITY, HENRY SCHMITT, 189731
LIME CITY, LOUIS WHEDE, 195880
LIME CITY, IVAN BOYER, 195895
LIME CITY, PHILIP RUDOLPH, 206424
LIME CITY, LARRY ATTERTON, 228270
LIME CITY, JAMES VETTER, 233815
LIME CITY, E SMITH, 238607
LIME CITY, MELVIN SHANKS, 238633
LIME CITY, D FLEMING, 253083
LIME CITY, SYRIE LAROY, 253092

Maps Orbs + Map Quest could not locate these addresses.

LIME CITY, VERNON WORMS, 253097
LIME CITY, KARL WILLIAMS, 262451
LIME CITY, ZANE CORDELL, 262462
LIME CITY, PERRYSBURG, 262499
LIME CITY, ERNEST HAAS, 285353
LIME CITY, GEORGE WOLFE, 295963
LIME CITY, GEORGE MURRY, 311579
LIME CITY, CLAYTON SNYDER, 320250
LIME CITY, DALE VOLLMAR, 330120
LIME CITY, JOHN ANDRYE, 331552
LIME CITY, OGLE JENKINS, 331560
LIME CITY, RONALD EUTON, 331578
LIME CITY, GLEN HANDY, 331592
LIME CITY, ROBERT ARTZ, 342903
LIME CITY, HOWARD HAAS, 342905
LIME CITY, RALPH ARTZ, 342906
LIME CITY, CYRIL LAROY, 342913
LIME CITY, FLOYD KAZMAIER, 342930
LIME CITY, RICHARD HAHNN, 348404
LIME CITY, CARL KOPP, 364635
LIME CITY, GLEN SCHALLER, 381619
LIME CITY, RON EUTON, 381638
LIME CITY, JOHN UHLER, 396411
LIME CITY, CHAS POWELL, 396413
LIME CITY, JOHN MACKEY, 396445
LIME CITY, RICHARD BECK, 421583
LIME CITY, DESHLER LUMBER CO., 435530
LIME CITY, RICHARD BEARD, 513193
LIME CITY, CECIL ADKINS, 607265
LIME CITY, PERRYSBURG ESTATES, 618167
LIME CITY, PERRYSBERG TWP TRUST, 661238
LIME CITY, JEFF EBERLY, 932653
LIME CITY, LAWRENCE TREMSKY, 9987117
LIME CITY, CHAS SARADIN, 9987137

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

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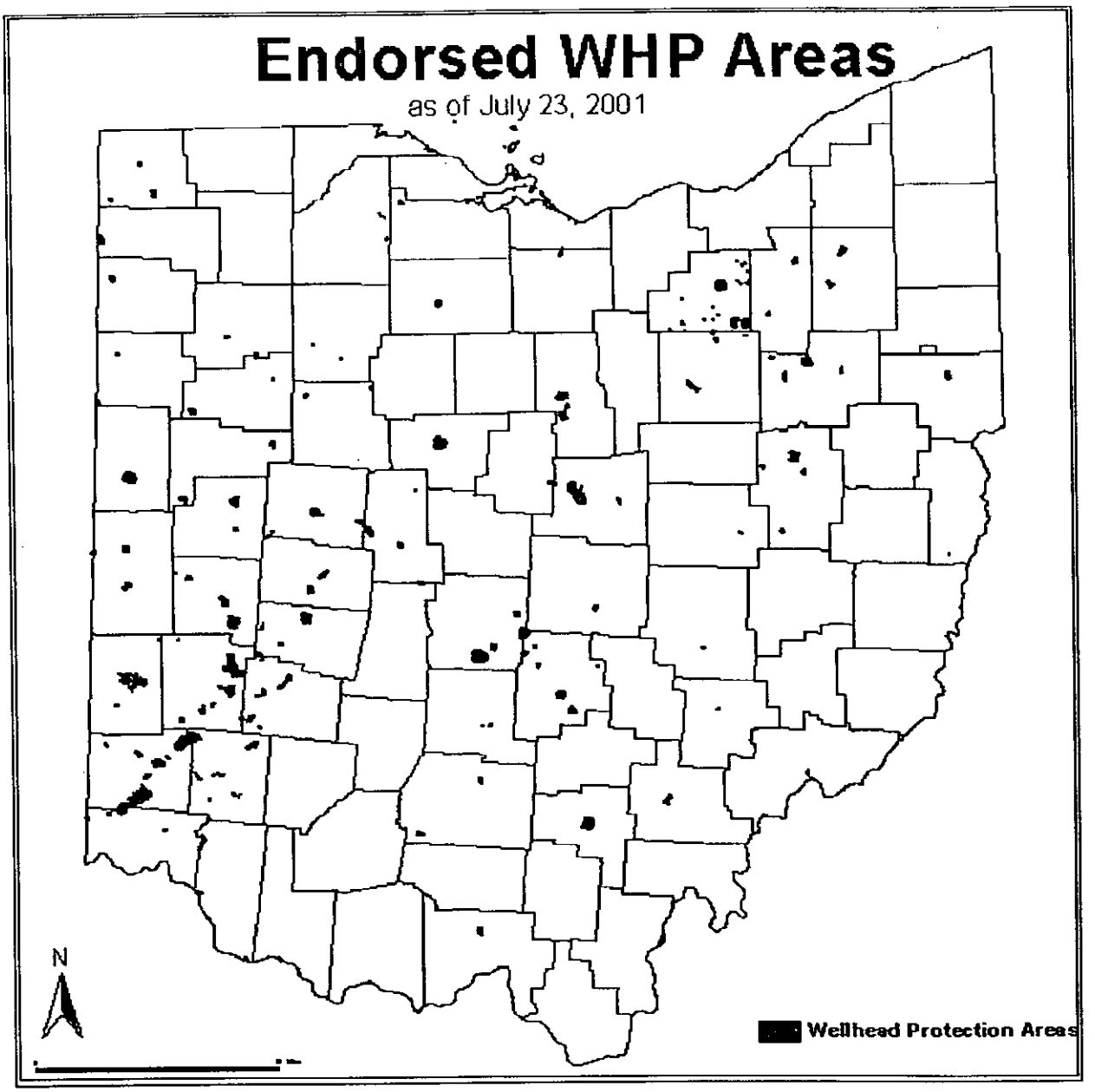
Search for All Roads within WOOD county

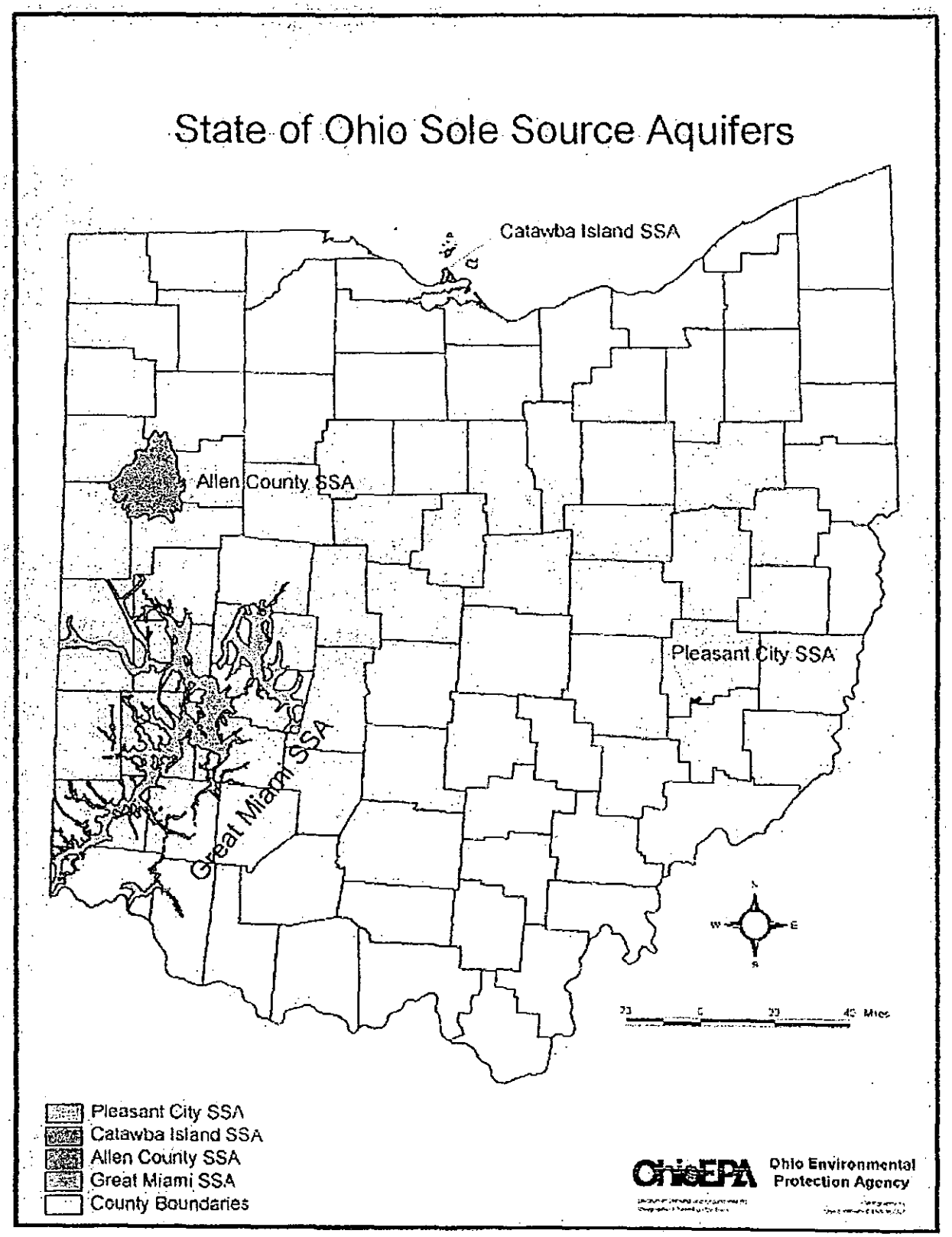
Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

418 FOREST, CLYDE ROWLEY, 58196


Endorsed WHP Areas
as of July 23, 2001
N
Wellhead Protection Areas


State of Ohio Sole Source Aquifers
Catawba Island SSA
Allen County SSA
Pleasant City SSA
Great Miami SSA
N
W
E
S
Pleasant City SSA
Catawba Island SSA
Allen County SSA
Great Miami SSA
County Boundaries
OhioEPA
Ohio Environmental Protection Agency

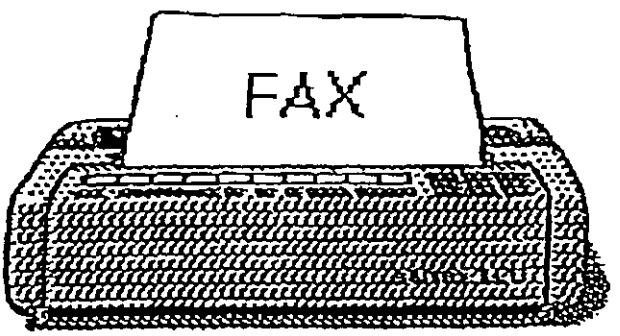
Urban Setting Designations

USD Name	County	OEPA District	City	Status	Date USD Received	Date USD Issued
Akron/Opportunity Park	Summit	NEDO	Akron	Issued	1/23/1997	8/11/1998
Former Coyne Laundry/Catholic Charities	Cuyahoga	NEDO	Cleveland	Issued	2/25/1997	9/17/1997
Former Hartman Electrical Site	Richland	NWDO	Mansfield	Issued	1/12/1998	9/1/1998
Toledo/Oregon Properties USD	Lucas	NWDO	Toledo/Oregon	Issued	1/21/1998	9/11/1998
Van Leer Containers, Inc.	Cuyahoga	NEDO	Cleveland	Withdrawn	1/29/1998	
Former Collinwood Maintenance Facility	Cuyahoga	NEDO	Cleveland	Issued	2/3/1998	5/1/1998
Miranova Property & Three Sites Cols.	Franklin	CDO	Columbus	Issued	4/6/1998	9/24/1998
City of Cleveland - Inner West Side Area	Cuyahoga	NEDO	Cleveland	Issued	8/17/1998	5/7/1999
City of Cleveland - West Area	Cuyahoga	NEDO	Cleveland	Issued	8/17/1998	5/7/1999
City of Cleveland - Inner East Side Area	Cuyahoga	NEDO	Cleveland	Issued	8/17/1998	5/7/1999
City of Cleveland - Southeast Area	Cuyahoga	NEDO	Cleveland	Issued	8/17/1998	5/7/1999
City of Cleveland - Industrial Valley Area	Cuyahoga	NEDO	Cleveland	Issued	8/17/1998	5/7/1999
City of Cleveland - Northeast Area	Cuyahoga	NEDO	Cleveland	Issued	8/18/1998	5/7/1999
Church Square Property	Cuyahoga	NEDO	Cleveland	Issued	8/31/1998	1/22/1999
Riverfront Commons Corporation Pen West	Franklin	CDO	Columbus	Issued	5/3/1999	10/26/1999
Frank J. Stolitzka and Sons, Inc.	Summit	NEDO	Akron	Issued	8/16/1999	2/17/2000
Liniform Services	Summit	NEDO	Barberton	Issued	6/14/2000	11/7/2000
West Valley Shopping Plaza	Cuyahoga	NEDO	Berea	Issued	12/27/2000	5/23/2001
National Gypsum	Trumbull	NEDO	Niles	Pending	4/4/2001	
Opportunity Park Area	Summit	NEDO	East Akron	Issued	5/30/2001	12/5/2001

Urban Setting Designations

Over-Flo Lot	Cuyahoga	NEDO	Brook Park	Issued	11/21/2001	5/14/2002
City of Mansfield	Richland	NWDO	Mansfield	Issued	12/28/2001	5/29/2002
City of Springfield	Clark	SWDO	Springfield	Issued	3/11/2002	5/8/2002
City of Toledo	Lucas	NWDO	Toledo	Pending	6/12/2002	
Coltman Road Property	Cuyahoga	NEDO	Cleveland	Issued	7/30/2002	12/5/2002

CITY OF TOLEDO



DEPT. OF PUBLIC UTILITIES
Ohio Building
420 Madison Avenue
Suite 100
Toledo, Ohio 43604-1219
(419) 245- 1800
FAX (419) 936-7853

DATE: 3/13/02

TO: Suzanne Maeks

FROM: KM/CS

PAGES TO FOLLOW: 6

MESSAGE:

TEL:4199367853

1053

918	Peck St.	919	Sherman St.	1015	Sherman St.	923	Sherman St.
920	Peck St.	915	Sherman St.	922	Baker St.	921	Sherman St.
926	Peck St.	909	Sherman St.	926	Baker St.	929	Baker St.
928	Peck St.	908	Sherman St.	930	Baker St.	1712	Lagrange Rd.
930	Peck St.	910	Sherman St.	1015	Baker St.	909	Baker St.
1817	Lagrange Rd.	912	Sherman St.	1017	Baker St.	911	Baker St.
1815	Lagrange Rd.	914	Sherman St.	1014	Sherman St.	915	Baker St.
1813	Lagrange Rd.	916	Sherman St.	1018	Sherman St.	921	Baker St.
1811	Lagrange Rd.	920	Sherman St.	1013	Sherman St.	925	Baker St.
1805	Lagrange Rd.	922	Sherman St.	1708	Lagrange Rd.	1812	Lagrange Rd.
1801	Lagrange Rd.	928	Sherman St.	1702	Lagrange Rd.	1808	Lagrange Rd.
1707	Lagrange Rd.	930	Sherman St.	1626	Lagrange Rd.	1724	Lagrange Rd.
1701	Lagrange Rd.	1806	Locust St.	1622	Lagrange Rd.	1720	Lagrange Rd.
1617	Lagrange Rd.	1810	Locust St.	1618	Lagrange Rd.	1716	Lagrange Rd.
1816	Lagrange Rd.	1706	Locust St.	925	Sherman St.		

3642

969 E. River Rd.
964 E. River Rd.
962 E. River Rd.
916 E. River Rd.
954 E. River Rd.
943 E. River Rd.
958 E. River Rd.
859 E. River Rd.
118 Rossway Ave.
80 Rossway Ave.

958 E. RIVER RD.

Current Resident [illegible] River Rd. Boston [illegible]

Dear Resident:

At the request of the Ohio Bureau of Underground Storage Tank Regulations, Parsons is conducting a water well survey in your area. Your cooperation is appreciated.

Please check the appropriate response(s) and return the postcard. If no reply is received by 02/26/02, it will be assumed that you do not have a well and are unaware of any wells in your area.

X I do not have, nor has there ever been, a well on my property.
___I had a well on my property; however, it was sealed on _____ (date).
___I have a well on my property; however, it is not in use.
___I have and am currently using a well on my property for _____(drinking, watering the lawn, etc.)
___I know of a well at_____ (address)

If you have any questions, please contact Adam Tucker at (216) 486-9005.
Thank you for your cooperation.

PARSONS

3642

Current Resident	First Name	Address	City	State	Postal Code	Date Sent	Date Received	Comments	Well Y/N
Rossford Recreation	Current Resident	969 E. River Rd.	Rossford	Ohio	43460	2-12-02			
John Kacynski	Current Resident	964 E. River Rd.	Rossford	Ohio	43460	2-12-02			
Gaynelle Vicary	Current Resident	962 E. River Rd.	Rossford	Ohio	43460	2-12-02			
Brian Miller	Current Resident	916 E. River Rd.	Rossford	Ohio	43460	2-12-02			
Cecelia Duly	Current Resident	954 E. River Rd.	Rossford	Ohio	43460	2-12-02	2-22-02	NSN	N/A
Michael Tersigni	Current Resident	943 E. River Rd.	Rossford	Ohio	43460	2-12-02			
Cecelia Duly	Current Resident	958 E. River Rd.	Rossford	Ohio	43460	2-12-02	2-19-02	NC	N
Brian International	Current Resident	859 E. River Rd.	Rossford	Ohio	43460	2-12-02	2-22-02	NSN	N/A
Bill Ocheske	Current Resident	118 Rossway Ave.	Rossford	Ohio	43460	2-12-02			
Rossview LLC	Current Resident	80 Rossway Ave.	Rossford	Ohio	43460	2-12-02	2-22-02	NSN	N/A

Not Listed:

Block 9: Emro Marketing: 939 E. River Rd., Rossford, Ohio

APPENDIX B

SOIL BORING AND MONITORING WELL LOGS

PARSONS

LOG OF BORING MW-7

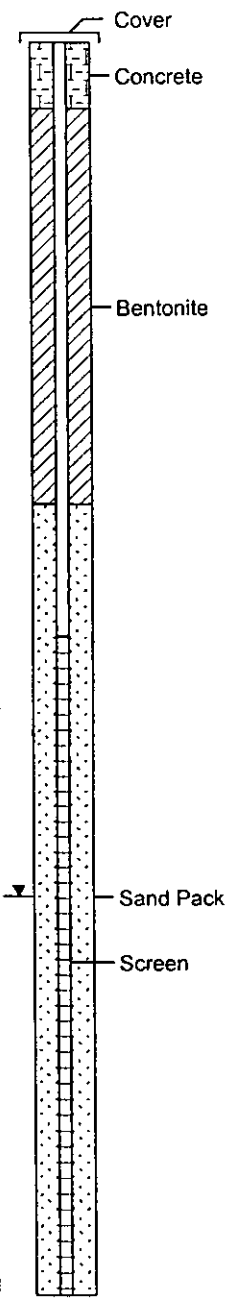
Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 19 December 2002	Weather	: Cloudy, 45F
Drilling Finish Date	: 19 December 2002	Geologist	: M Pesci
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 13.0'

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					TOPSOIL.		
	1	NA	Hand Auger to 5'	5.9	FILL, brown, silty clay, gravel, asphalt and glass, damp.	FL	
	2	NA		0.0*	Some sand.		
5	3	25%	2-3-3-5	5.2	Silty CLAY, brown with little gravel, damp.		
	4	75%	3-4-6-9	7.4*	Little sand and gravel, gray mottling, damp.		
10	5	100%	3-5-6-10	0.5			
	6	75%	4-3-5-5	8.6*		CL	
	7	100%	2-3-2-4	4.8	Becomes wet at 13.0 feet with little sand and gravel.		
15	8	75%	4-3-5-6	0.0*	Shale fragments at 15 feet.		
	9	75%	2-3-5-7	5.1			
20					End of boring @ 19.0'		

*Sample submitted for laboratory analysis.

Well: MW-7
Elev.:



04-25-2003 P:\SSA\3642_R-1\CADD\MW-007.BOR

PARSONS

LOG OF BORING MW-8

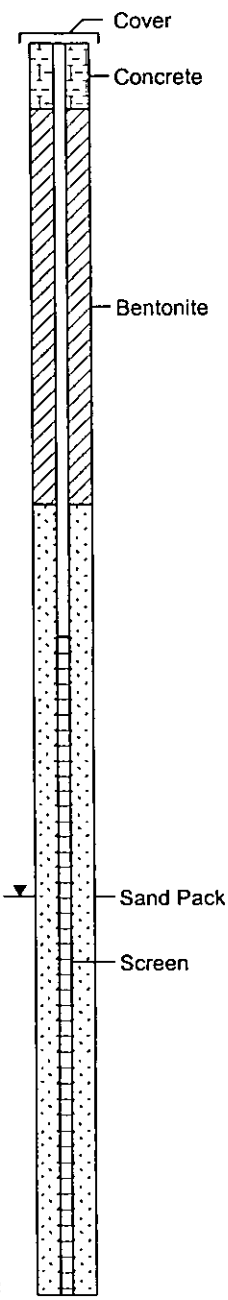
Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 19 December 2002	Weather	: Cloudy, 45F
Drilling Finish Date	: 19 December 2002	Geologist	: M Pesci
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 13.0'

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					CONCRETE.		
	1	NA	Hand Auger to 5'	0.0	FILL, olive gray, silty clay with gravel, red brick, sand and glass, damp.	FL	
	2	NA		8.2*	Slight petroleum odor and black staining.		
5	3	75%	2-2-3-6	4.8	Silty CLAY, olive gray with little sand and gravel, moist.	CL	
	4	75%	2-2-3-6	0.0	Brown mottling.		
10	5	100%	3-3-6-6	0.0	Some gravel.		
	6	75%	2-2-4-6	0.0*	Wet at 13 feet.		
	7	100%	4-6-9-10	0.0	Sand lense.		
15	8	75%	2-5-5-9	0.0			
	9	75%	4-4-6-8	0.0			
20					End of boring @ 19.0'		

*Sample submitted for laboratory analysis.

Well: MW-8
Elev.:



06-18-2003 P:\SSA\3642_R-1\CADD\BORING-1\MW-008.BOR

APPENDIX C
LABORATORY REPORTS

PARSONS
Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: SSA 3642 Rossford

Project Number: 440142.00421

Sample Date and Description: 2-19-03 10 Water

Project Manager: ACT

Does report agree with COC? YES (NO*)

Is data review requested by client? YES NO*

TRACKING FORM COMPLETE Initials: SJM

*Comments: In lieu of Parsons reviewing and flagging reports, the client has requested the laboratory provide written expanation to qualify analytical data.

*OTHER COMMENTS:

Lab ran BTEX & MTBE 8260B, Chain says to run 8021B.

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

February 25, 2003

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119-3088
TEL: (216) 486-9005
FAX: (216) 486-2369

RE: Speedway #3642 Order No.: 0302313

Dear Adam Tucker,

BIO-CHEM Laboratories, Inc. completely received 10 samples on 2/21/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to insure a better tomorrow.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0302313
Completely Received: 2/21/2003

Work Order Sample Summary

Date Reported: 2/25/2003

Lab Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
0302313-01A	MW-2	Aqueous	2/19/2003	2/21/2003
0302313-02A	MW-3	Aqueous	2/19/2003	2/21/2003
0302313-03A	MW-4	Aqueous	2/19/2003	2/21/2003
0302313-04A	MW-5	Aqueous	2/19/2003	2/21/2003
0302313-05A	MW-6	Aqueous	2/19/2003	2/21/2003
0302313-06A	MW-7	Aqueous	2/19/2003	2/21/2003
0302313-07A	MW-8	Aqueous	2/19/2003	2/21/2003
0302313-08A	MW-A	Aqueous	2/19/2003	2/21/2003
0302313-09A	MW-B	Aqueous	2/19/2003	2/21/2003
0302313-10A	Field Blank	Aqueous	2/19/2003	2/21/2003

BIO-CHEM Laboratories, Inc. Date: *2/25/2003*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0302313

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-01A

Project Number: 440142 00421
Client Sample ID: MW-2
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-02A

Project Number: 440142 00421
Client Sample ID: MW-3
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-03A

Project Number: 440142 00421
Client Sample ID: MW-4
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,600		10	µg/L	10	DRF	2/21/2003
2. Toluene	SW8260B	60		10	µg/L	10	DRF	2/21/2003
3. Ethylbenzene	SW8260B	2,300		10	µg/L	10	DRF	2/21/2003
4. o-Xylene	SW8260B	270		10	µg/L	10	DRF	2/21/2003
5. m,p-Xylene	SW8260B	9,000		20	µg/L	10	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	1,600		40	µg/L	10	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-04A

Project Number: 440142 00421
Client Sample ID: MW-5
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	630		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-05A

Project Number: 440142 00421
Client Sample ID: MW-6
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL; Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-06A

Project Number: 440142 00421
Client Sample ID: MW-7
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	1.1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	4.6		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-07A

Project Number: 440142 00421
Client Sample ID: MW-8
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	12		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL; Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-08A

Project Number: 440142 00421
Client Sample ID: MW-A
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	3,400		10	µg/L	10	DRF	2/21/2003
2. Toluene	SW8260B	65		10	µg/L	10	DRF	2/21/2003
3. Ethylbenzene	SW8260B	2,100		10	µg/L	10	DRF	2/21/2003
4. o-Xylene	SW8260B	230		10	µg/L	10	DRF	2/21/2003
5. m,p-Xylene	SW8260B	7,700		20	µg/L	10	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	1,800		40	µg/L	10	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-09A

Project Number: 440142 00421
Client Sample ID: MW-B
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL; Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *2/25/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0302313
Project: Speedway #3642
Lab Sample ID: 0302313-10A

Project Number: 440142 00421
Client Sample ID: Field Blank
Collection Date: 2/19/2003
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
2. Toluene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
3. Ethylbenzene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
4. o-Xylene	SW8260B	< 1		1	µg/L	1	DRF	2/21/2003
5. m,p-Xylene	SW8260B	< 2		2	µg/L	1	DRF	2/21/2003
6. Methyl tert-butyl ether	SW8260B	< 4		4	µg/L	1	DRF	2/21/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Lab Order: 0302313
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0302313-01A	MW-2	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-02A	MW-3	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-03A	MW-4	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_D_030221A	2/21/2003	GCMS_D_030221A
0302313-04A	MW-5	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-05A	MW-6	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-06A	MW-7	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-07A	MW-8	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-08A	MW-A	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_D_030221A	2/21/2003	GCMS_D_030221A
0302313-09A	MW-B	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A
0302313-10A	Field Blank	Aqueous	VOLATILES by GC/MS	2/19/2003			GCMS_X_030221A	2/21/2003	GCMS_X_030221A

PAGE 1 OF 1 **Chain-of-Custody-Record**

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 930 E. RIVER RD.
CITY: ROSSFORD, OH
SSA PROJ. MGR: BRIAN EFFERSON
OFFICE: (ENON) ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 864-3000 FAX# (937) 865-6078
AFE#: 010585 WORK ORDER#: 42147337
CODE: _____ TYPE: L

LAB: **Bio Chem Laboratories**
CONSULTANT: PARSONS
ADDRESS: 19101 VILLAVIEW RD. STE. 100
CLEVELAND, OH 44119
PROJECT MGR: ADAM TUCKER
PHONE# (216) 476-7005 FAX# (216) 476-2369
SAMPLER: CHERYL HUEY
SHIPPED VIA: FEDEX
TRACKING #: 7921 9744 2220

TURN AROUND TIME
STANDARD ☒
RUSH ☐

	Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: 8021 8260	Remarks
	~~MW-1~~	~~2-19-03~~	~~W~~	~~2~~	~~4 1mL~~	~~HCl~~	~~✓ ✓~~	CALL — NO SAMPLE
01	MW-2	2-19-03 13:11	W	2	4 1mL	HCl	✓ ✓	
02	MW-3	2-19-03 13:16	W	2	4 1mL	HCl	✓ ✓	
03	MW-4	2-19-03 12:07	W	2	4 1mL	HCl	✓ ✓	
04	MW-5	2-19-03 16:57	W	2	4 1mL	HCl	✓ ✓	
05	MW-6	2-19-03 13:37	W	2	4 1mL	HCl	✓ ✓	
06	MW-7	2-19-03 12:41	W	2	4 1mL	HCl	✓ ✓	
07	MW-8	2-19-03 13:09	W	2	4 1mL	HCl	✓ ✓	
08	MW-A	2-19-03 12:08	W	2	4 1mL	HCl	✓ ✓	
09	MW-B	2-19-03 13:25	W	2	4 1mL	HCl	✓ ✓	
10	FIELD BLANK	2-19-03 13:30	W	2	4 1mL	HCl	✓ ✓	

CUSTODY RECORD	Relinquished by:	Date 2/20/03	Time 08:00	Received by: Date 2/20/03 Time 0800
	Relinquished by:	Date 2/21/03	Time	Received by laboratory: Fedex/Fedex/Bio Lab Date 2-21-03 Time 800
	Special Reporting Requirements			Lab Notes: Temp 1.0 C

PARSONS
Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: SSA 3642 Rossford

Project Number: 741479.00320

Sample Date and Description: 12-19-02 12-20-02 4 Soil 9 Water

Project Manager: ACT

Does report agree with COC? YES (NO*)

Is data review requested by client? YES NO*

TRACKING FORM COMPLETE Initials: SJM

*Comments: In lieu of Parsons reviewing and flagging reports, the client has requested the laboratory provide written expanation to qualify analytical data.

*OTHER COMMENTS:

Soils: Lab ran BTEX & MTBE 8260B, C.O.C. says to run BTEX & MTBE 8021B.

COPY

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

January 07, 2003

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119-3088
TEL: (216) 486-9005
FAX: (216) 486-2369

RE: Speedway #3642 Order No.: 0212466

Dear Adam Tucker,

BIO-CHEM Laboratories, Inc. completely received 15 samples on 12/27/2002 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to insure a better tomorrow.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0212466
Completely Received: 12/27/2002

Work Order Sample Summary

Date Reported: 01/07/2003

Lab Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
0212466-01A	MW-7 (3-5')	Soil	12/19/2002	12/27/2002
0212466-02A	MW-7 (7-9')	Soil	12/19/2002	12/27/2002
0212466-03A	MW-7 (11-13')	Soil	12/19/2002	12/27/2002
0212466-04A	MW-7 (15-17')	Soil	12/19/2002	12/27/2002
0212466-05A	MW-8 (3-5')	Soil	12/19/2002	12/27/2002
0212466-06A	MW-8 (11-13')	Soil	12/19/2002	12/27/2002
0212466-07A	MW-1	Aqueous	12/20/2002	12/27/2002
0212466-08A	MW-2	Aqueous	12/20/2002	12/27/2002
0212466-09A	MW-3	Aqueous	12/20/2002	12/27/2002
0212466-10A	MW-4	Aqueous	12/20/2002	12/27/2002
0212466-11A	MW-5	Aqueous	12/20/2002	12/27/2002
0212466-12A	MW-6	Aqueous	12/20/2002	12/27/2002
0212466-13A	MW-7	Aqueous	12/20/2002	12/27/2002
0212466-14A	MW-8	Aqueous	12/20/2002	12/27/2002
0212466-15A	Field Duplicate	Aqueous	12/20/2002	12/27/2002

BIO-CHEM Laboratories, Inc. Date: *01/07/2003*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0212466

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	N/A
Lab Order:	0212466	**Client Sample ID:**	MW-7 (3-5')
Project:	Speedway #3642	**Collection Date:**	12/19/2002
Lab Sample ID:	0212466-01A	**Matrix:**	SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
FRACTION ORGANIC CARBON								
1. Moisture Content	D2974-87	18		0.1	wt%	1	TMB	01/07/2003
2. Ash Content at 440-C	D2974-87	98		0.1	wt%	1	TMB	01/07/2003
3. Organic Matter	D2974-87	2.3		0.1	wt%	1	TMB	01/07/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-02A

Project Number: N/A
Client Sample ID: MW-7 (7-9')
Collection Date: 12/19/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-03A

Project Number: N/A
Client Sample ID: MW-7 (11-13')
Collection Date: 12/19/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	N/A
Lab Order:	0212466	**Client Sample ID:**	MW-7 (15-17')
Project:	Speedway #3642	**Collection Date:**	12/19/2002
Lab Sample ID:	0212466-04A	**Matrix:**	SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
FRACTION ORGANIC CARBON								
1. Moisture Content	D2974-87	16		0.1	wt%	1	TMB	01/07/2003
2. Ash Content at 440-C	D2974-87	98		0.1	wt%	1	TMB	01/07/2003
3. Organic Matter	D2974-87	2		0.1	wt%	1	TMB	01/07/2003

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-05A

Project Number: N/A
Client Sample ID: MW-8 (3-5')
Collection Date: 12/19/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-06A

Project Number: N/A
Client Sample ID: MW-8 (11-13')
Collection Date: 12/19/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	N/A
Lab Order:	0212466	**Client Sample ID:**	MW-1
Project:	Speedway #3642	**Collection Date:**	12/20/2002
Lab Sample ID:	0212466-07A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-08A

Project Number: N/A
Client Sample ID: MW-2
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-09A

Project Number: N/A
Client Sample ID: MW-3
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/27/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/27/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-10A

Project Number: N/A
Client Sample ID: MW-4
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	120		1	µg/L	1	DRF	12/30/2002
2. Toluene	SW8021B	27		1	µg/L	1	DRF	12/27/2002
3. Ethylbenzene	SW8021B	83		1	µg/L	1	DRF	12/30/2002
4. o-Xylene	SW8021B	70		1	µg/L	1	DRF	12/27/2002
5. m,p-Xylene	SW8021B	350		2	µg/L	1	DRF	12/30/2002
6. Methyl tert-butyl ether	SW8021B	110		4	µg/L	1	DRF	12/27/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-11A

Project Number: N/A
Client Sample ID: MW-5
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	4.8		1	µg/L	1	DRF	12/28/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
3. Ethylbenzene	SW8021B	3		1	µg/L	1	DRF	12/28/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
5. m,p-Xylene	SW8021B	14		2	µg/L	1	DRF	12/28/2002
6. Methyl tert-butyl ether	SW8021B	500		4	µg/L	1	DRF	12/28/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-12A

Project Number: N/A
Client Sample ID: MW-6
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/28/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	12/28/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-13A

Project Number: N/A
Client Sample ID: MW-7
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/28/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	12/28/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-14A

Project Number: N/A
Client Sample ID: MW-8
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	12/28/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	12/28/2002
6. Methyl tert-butyl ether	SW8021B	13		4	µg/L	1	DRF	12/28/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *01/07/2003*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0212466
Project: Speedway #3642
Lab Sample ID: 0212466-15A

Project Number: N/A
Client Sample ID: Field Duplicate
Collection Date: 12/20/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	110		1	µg/L	1	DRF	12/30/2002
2. Toluene	SW8021B	30		1	µg/L	1	DRF	12/28/2002
3. Ethylbenzene	SW8021B	78		1	µg/L	1	DRF	12/30/2002
4. o-Xylene	SW8021B	79		1	µg/L	1	DRF	12/28/2002
5. m,p-Xylene	SW8021B	330		2	µg/L	1	DRF	12/30/2002
6. Methyl tert-butyl ether	SW8021B	120		4	µg/L	1	DRF	12/28/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

Lab Order: 0212466
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0212466-01A	MW-7 (3-5')	Soil	FRACTION ORGANIC CARB	12/19/2002		01/06/2003	FOC-1/7/2003	01/07/2003	GRAVIMETRIC_030106A
0212466-02A	MW-7 (7-9')	Soil	VOLATILES by GC/MS	12/19/2002		12/27/2002	12325	12/27/2002	GCMS_Y_021227A
0212466-03A	MW-7 (11-13')	Soil	VOLATILES by GC/MS	12/19/2002		12/27/2002	12325	12/27/2002	GCMS_Y_021227A
0212466-04A	MW-7 (15-17')	Soil	FRACTION ORGANIC CARB	12/19/2002		01/06/2003	FOC-1/7/2003	01/07/2003	GRAVIMETRIC_030106A
0212466-05A	MW-8 (3-5')	Soil	VOLATILES by GC/MS	12/19/2002		12/27/2002	12325	12/27/2002	GCMS_Y_021227A
0212466-06A	MW-8 (11-13')	Soil	VOLATILES by GC/MS	12/19/2002		12/27/2002	12325	12/27/2002	GCMS_Y_021227A
0212466-07A	MW-1	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/27/2002	GC_B_PID_021227A
0212466-08A	MW-2	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/27/2002	GC_B_PID_021227A
0212466-09A	MW-3	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/27/2002	GC_B_PID_021227A
0212466-10A	MW-4	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/27/2002	GC_B_PID_021227A
	MW-4	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021230A	12/30/2002	GC_B_PID_021230A
0212466-11A	MW-5	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/28/2002	GC_B_PID_021227A
0212466-12A	MW-6	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/28/2002	GC_B_PID_021227A
0212466-13A	MW-7	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/28/2002	GC_B_PID_021227A
0212466-14A	MW-8	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/28/2002	GC_B_PID_021227A
0212466-15A	Field Duplicate	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021230A	12/30/2002	GC_B_PID_021230A
	Field Duplicate	Aqueous	VOLATILES by GC/PID	12/20/2002			GC_B_PID_021227A	12/28/2002	GC_B_PID_021227A

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Chain-of-Custody-Record

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 937 E. River Rd.
CITY: Rossford, OH 43460
SSA PROJ. MGR: Brian Epperson
OFFICE: ENON ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 863-6514 FAX# ( )
AFE#: WORK ORDER#:
CODE: TYPE:

TURN AROUND TIME
STANDARD ☒
RUSH ☐

LAB: Bio Chem Laboratories
CONSULTANT: Parsons
ADDRESS: 17101 Valley Rd.
Cleveland, OH 44119
PROJECT MGR: Adam Jukka
PHONE# (216) 486-9005 FAX# (216) 486-6119
SAMPLER: Matt Pasci
SHIPPED VIA: Fed Ex
TRACKING #: ~~8377 0920 6491~~ 7717 6468 7525

	Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX/MTBE 8260	TDC ASTM						Remarks
01	MW-7 (3-5')	12/19/01 09:45	S	1	4oz.	None		X						
02	MW-7 (7-9')	12/19/01 10:00	S	1	4oz.	None	X							
03	MW-7 (11-13')	12/19/01 10:15	S	1	4oz.	None	X							
04	MW-7 (15-17')	12/19/01 10:30	S	1	4oz.	None		X						
05	MW-8 (3-5')	12/19/01 12:10	S	1	4oz.	None	X							
06	MW-8 (10-13')	12/19/01 12:30	S	1	4oz.	None	X							
07	MW-1	12/20/01 09:45	W	2	VOA 1 L	HCl	X							
08	MW-2	12/20/01 11:45	W	2	VOA	HCl	X							
09	MW-3	12/20/01 12:10	W	2	VOA	HCl	X							
10	MW-4	12/20/01 12:35	W	2	VOA	HCl	X							
11	MW-5	12/20/01 13:00	W	2	VOA	HCl	X							
12	MW-6	12/20/01 11:10	W	2	VOA	HCl	X							

CUSTODY RECORD

	Relinquished by:	Date	Time	Received by:	Date	Time
	Matt Pasci	12/20/01	15:00	Suzanne Wilhelm	12/20/01	15:00
	Relinquished by:	Date	Time	Received by laboratory:	Date	Time
	Suzanne Wilhelm	12/20/01	5pm	Fed Ex		
	Special Reporting Requirements			Lab Notes:	Temp	

PAGE 2 OF 2

Chain-of-Custody-Record

Speedway SuperAmerica Project Information

SSA STORE #: 3612
ADDRESS: 131 E River Rd
CITY: Rossford, OH 43460
SSA PROJ. MGR: Brian Epperson
OFFICE: ENON ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 863-6514 FAX# ( )
AFE#: WORK ORDER#:
CODE: TYPE:

TURN AROUND TIME
STANDARD ☒
RUSH ☐

LAB: Bio Chem Laboratories
CONSULTANT: Parsons
ADDRESS: 7161 Village Rd.
Cleveland, OH 44119
PROJECT MGR: Adam Turke
PHONE# (216) 986-9115 FAX# (216) 486-6119
SAMPLER: Matt Pasic
SHIPPED VIA: Fed Ex
TRACKING #: ~~8272 0224 6452~~ Sm 2712 6468 7825

	Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX/MTBE 8260							Remarks
13	MW-7	12/20/01 13:15	W	2	VOA	HCl	X							
14	MW-8	12/20/01 13:30	W	2	VOA	HCl	X							
15	Field Duplicate	12/20/01 12:35	W	2	VOA	HCl	X							

CUSTODY RECORD

Relinquished by: Matt Pasic	Date 12/20/01	Time 15:00	Received by: Suzanne Wilson	Date 12/20/01	Time 15:00
Relinquished by: Suzanne Wilson	Date 12/26/01	Time 5pm	Received by laboratory: Fed Ex	Date	Time
Special Reporting Requirements			Lab Notes:	Temp	

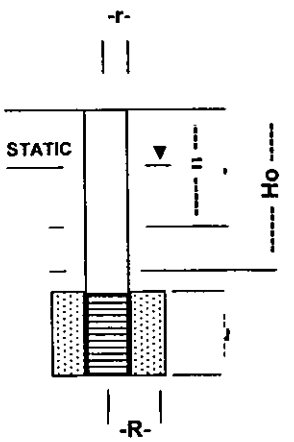
APPENDIX D
SLUG TEST DATA REDUCTION

Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-4

Static Head (ft)	8.06
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	7.96
Quantity Removed - Q (gal)	2.5



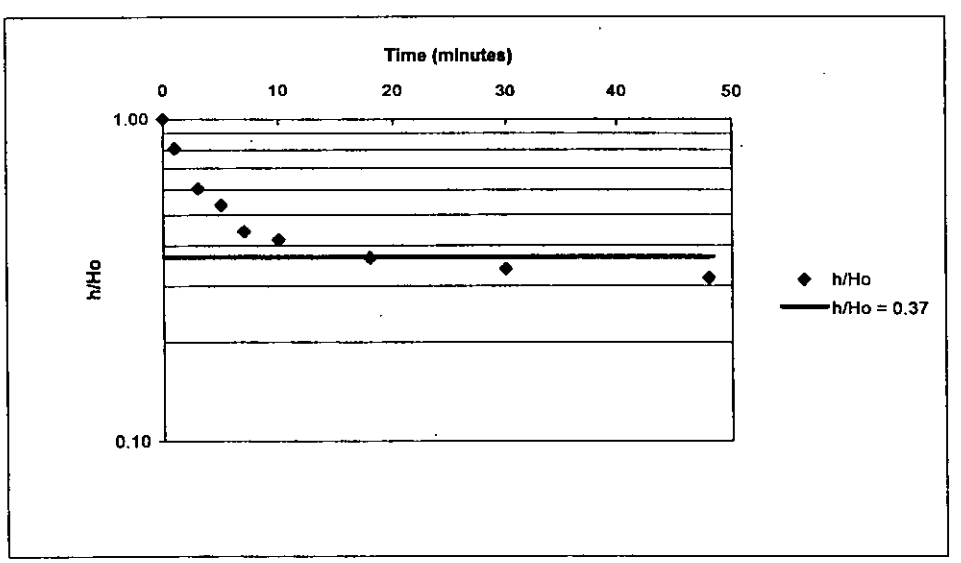
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		8.06		
0	1.00	15.00	6.94	Ho
1	0.81	13.67	5.61	h_1
3	0.61	12.26	4.2	h_2
5	0.54	11.78	3.72	h_3
7	0.44	11.13	3.07	h_4
10	0.42	10.95	2.89	h_5
18	0.37	10.61	2.55	h_6
30	0.34	10.41	2.35	h_7
48	0.32	10.26	2.2	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

7.68E-05	ft/min
0.11	ft/day
3.90E-05	cm/sec

$T_o =$ **18.02** **min**

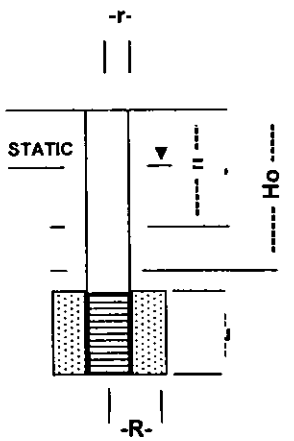


Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-6

Static Head (ft)	19.98
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	10
Quantity Removed - Q (gal)	5.5



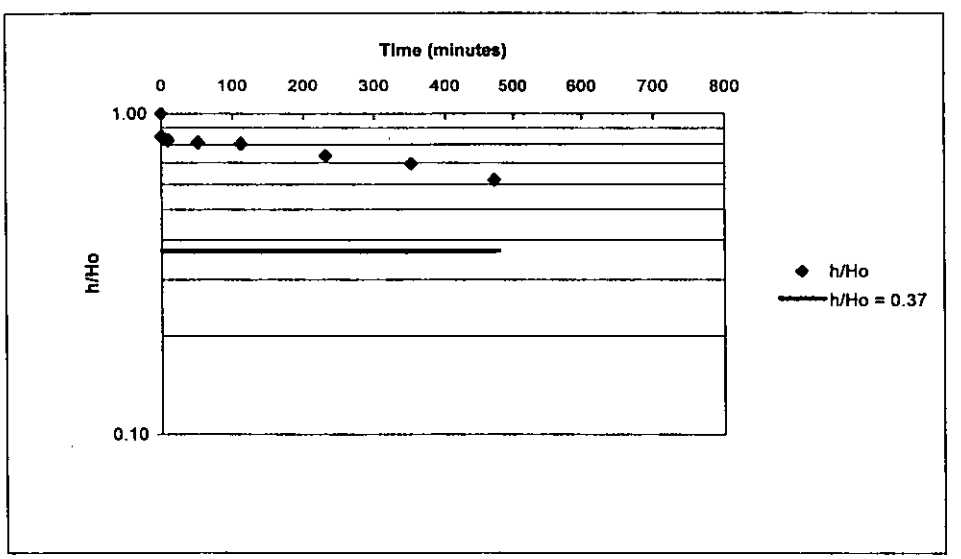
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		19.98		
0	1.00	36.97	16.99	Ho
1	0.85	34.36	14.38	h_1
4	0.83	34.12	14.14	h_2
10	0.82	33.97	13.99	h_3
52	0.81	33.77	13.79	h_4
112	0.80	33.63	13.65	h_5
232	0.74	32.50	12.52	h_6
352	0.70	31.80	11.82	h_7
472	0.62	30.50	10.52	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

7.76E-07	ft/min
0.00	ft/day
3.94E-07	cm/sec

$T_o =$ **1521.32 min**

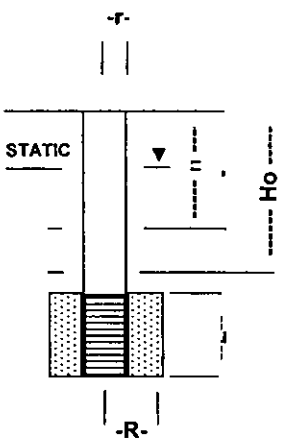


Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-7

Static Head (ft)	9.82
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	9.44
Quantity Removed - Q (gal)	5.25



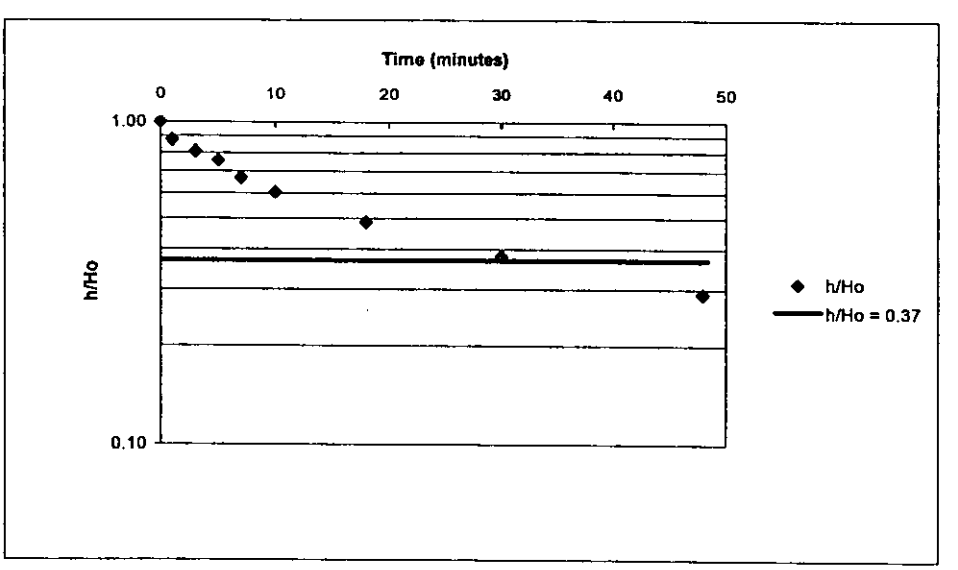
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		9.82		
0	1.00	17.13	7.31	Ho
1	0.88	16.22	6.4	h_1
3	0.81	15.73	5.91	h_2
5	0.76	15.34	5.52	h_3
7	0.67	14.70	4.88	h_4
10	0.60	14.23	4.41	h_5
18	0.49	13.37	3.55	h_6
30	0.38	12.60	2.78	h_7
48	0.29	11.94	2.12	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

4.30E-05	ft/min
0.06	ft/day
2.18E-05	cm/sec

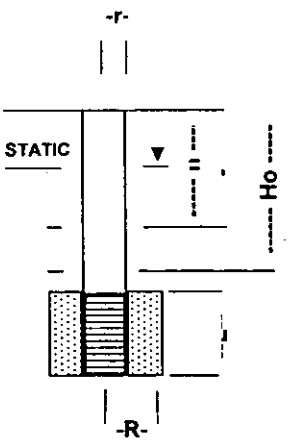
$T_o =$ **28.62** **min**



Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No:	MW-8
Static Head (ft)	13.05
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	6
Quantity Removed - Q (gal)	1.5



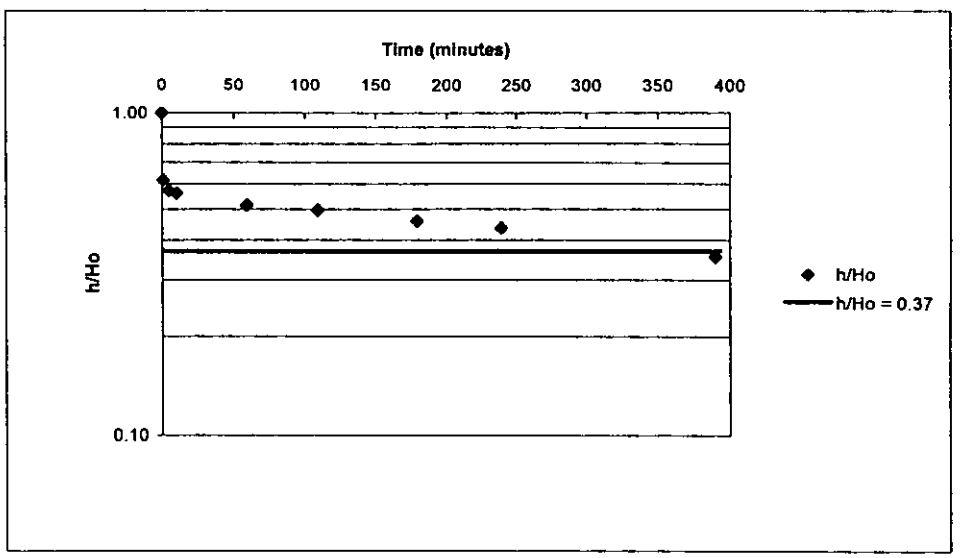
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		13.05		
0	1.00	18.25	5.2	Ho
1	0.62	16.25	3.2	h_1
5	0.57	16.02	2.97	h_2
10	0.56	15.96	2.91	h_3
59	0.51	15.72	2.67	h_4
109	0.50	15.63	2.58	h_5
179	0.46	15.44	2.39	h_6
239	0.44	15.32	2.27	h_7
390	0.36	14.90	1.85	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

5.02E-06	ft/min
0.01	ft/day
2.55E-06	cm/sec

$T_o =$ **333.12 min**



APPENDIX E
BIOSCREEN SIMULATIONS

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA Unit #3642
Rossford, Ohio
Benzene

Data Input Instructions:
115 or 0.02 — 1. Enter value directly... or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
Variable* — Data used directly in model.
20 — Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	12.1	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	I	0.09	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	3.3	(ft)
Transverse Dispersivity*	alpha y	0.3	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	40	(ft)

3. ADSORPTION

Retardation Factor*	R	4.9	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
FractionOrganicCarbon	foc	1.2E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.97	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

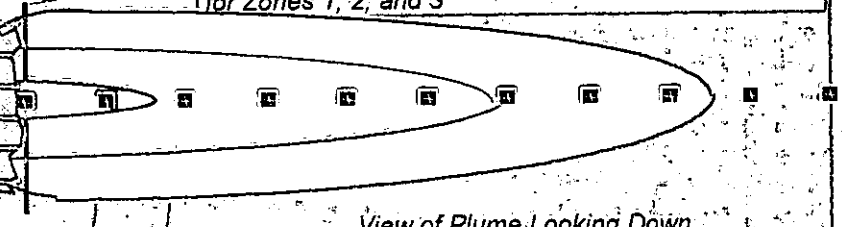
Modeled Area Length*	250	(ft)
Modeled Area Width*	20	(ft)
Simulation Time*	30	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 10 (ft)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones: Width* (ft)	Conc. (mg/L)*	
0	0	1
10	0.36	2
10	3.6	3
10	0.36	4
0	0	5



View of Plume Looking Down

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	3.6
25	.001
50	.001
75	
100	
125	
150	
175	
200	
225	
250	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

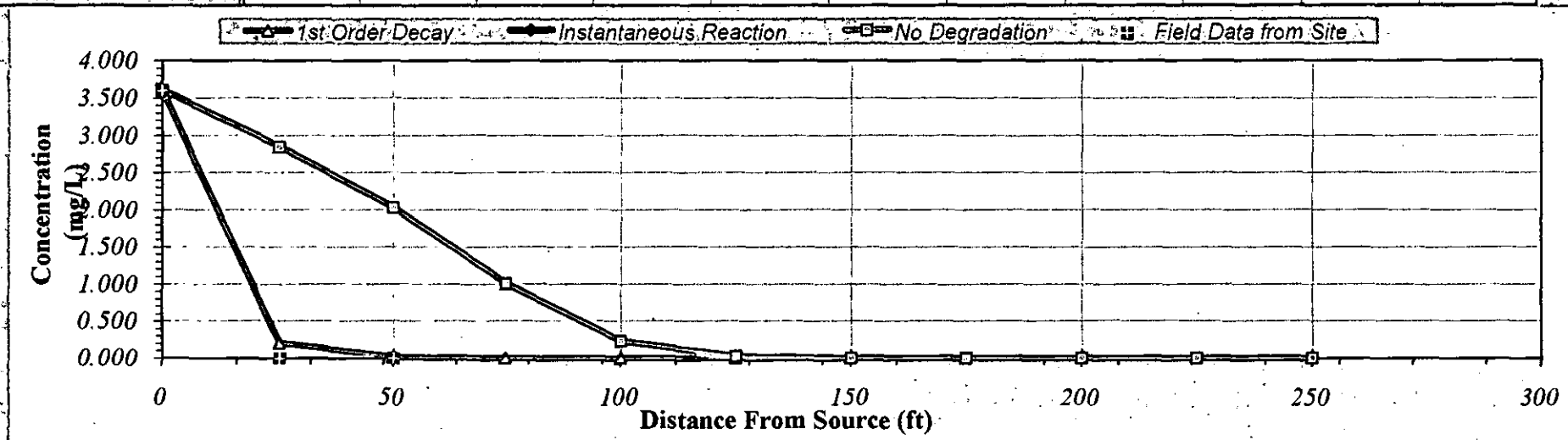
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	25	50	75	100	125	150	175	200	225	250
No Degradation	3.600	2.850	2.030	1.002	0.231	0.020	0.001	0.000	0.000	0.000	0.000
1st Order Decay	3.600	0.209	0.012	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	3.600	2.850	2.030	1.002	0.231	0.020	0.001	0.000	0.000	0.000	0.000
Field Data from Site	3.600	0.001	0.001								



Calculate Animation

Time: 30 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA Unit #3642
Rossford, Ohio
Ethylbenzene

Data Input Instructions:
115 — 1: Enter value directly... or
or — 2. Calculate by filling in grey
0.02 — cells below. (To restore formulas, hit button below).
Variable* — Data used directly in model.
20 — Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	12.1	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.09	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	3.3	(ft)
Transverse Dispersivity*	alpha y	0.3	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	40	(ft)

3. ADSORPTION

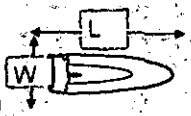
Retardation Factor*	R	24.9	(-)
or		or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	363	(L/kg)
FractionOrganicCarbon	foc	1.2E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	1.1E+0	(per yr)
or		or	
Solute Half-Life	t-half	0.62	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	20	(ft)
Simulation Time*	30	(yr)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 (ft)

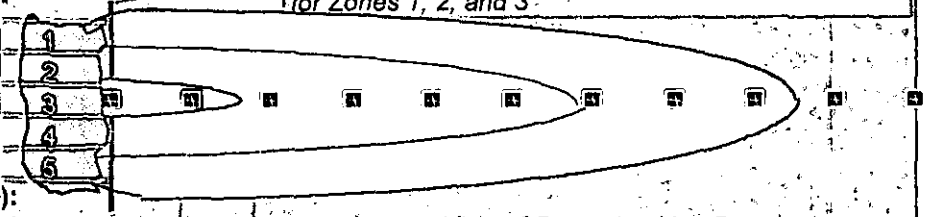
Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
10	0.23
10	2.3
10	0.23
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	2.3	.001	.001								
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

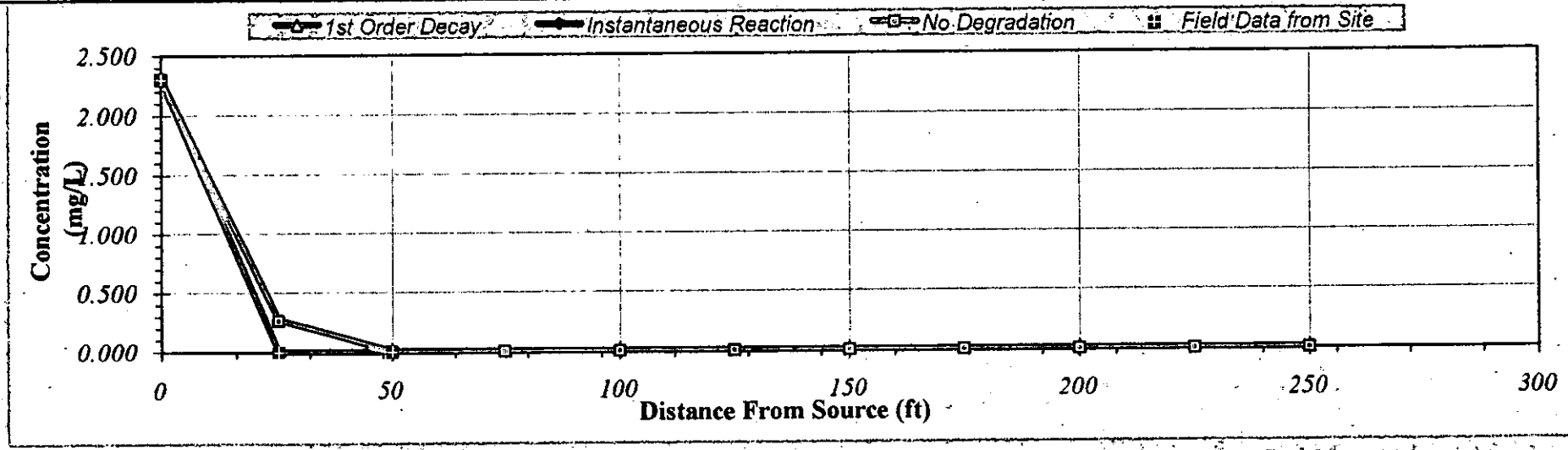
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	25	50	75	100	125	150	175	200	225	250
No Degradation	2.300	0.269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	2.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	2.300	0.269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.300	0.001	0.001								



Replay Animation | Next Timestep | Prev Timestep

Time: 30 Years

Return to Input | Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA Unit #3642
Rossford, Ohio
MTBE

Data Input Instructions:

115 — 1. Enter value directly... or
↑ or — 2. Calculate by filling in grey
0.02 — cells below. (To restore formulas, hit button below).

Variable* — Data used directly in model.
20 — Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	12.1	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.09	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	3.3	(ft)
Transverse Dispersivity*	alpha y	0.3	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	40	(ft)

3. ADSORPTION

Retardation Factor*	R	1.8	(-)
or		↑ or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	12	(L/kg)
FractionOrganicCarbon	foc	1.2E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.00	(year)

or Instantaneous Reaction Model

Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	20	(ft)
Simulation Time*	30	(yr)

6. SOURCE DATA

Source Thickness in Sat.Zone* 10 (ft)

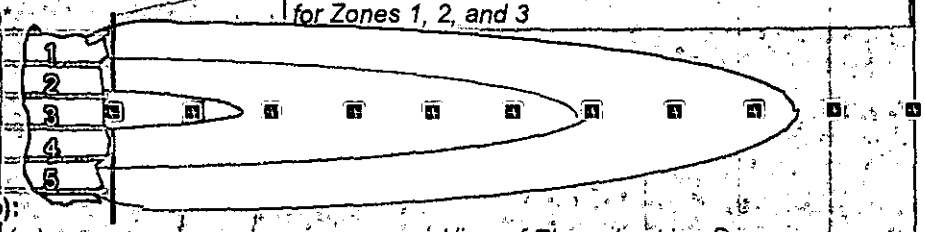
Source Zones:

Width* (ft)	Conc. (mg/L)*	
0	0	1
10	0.18	2
10	1.8	3
10	0.18	4
0	0	5

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React. K	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	1.8	.63	.012								
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

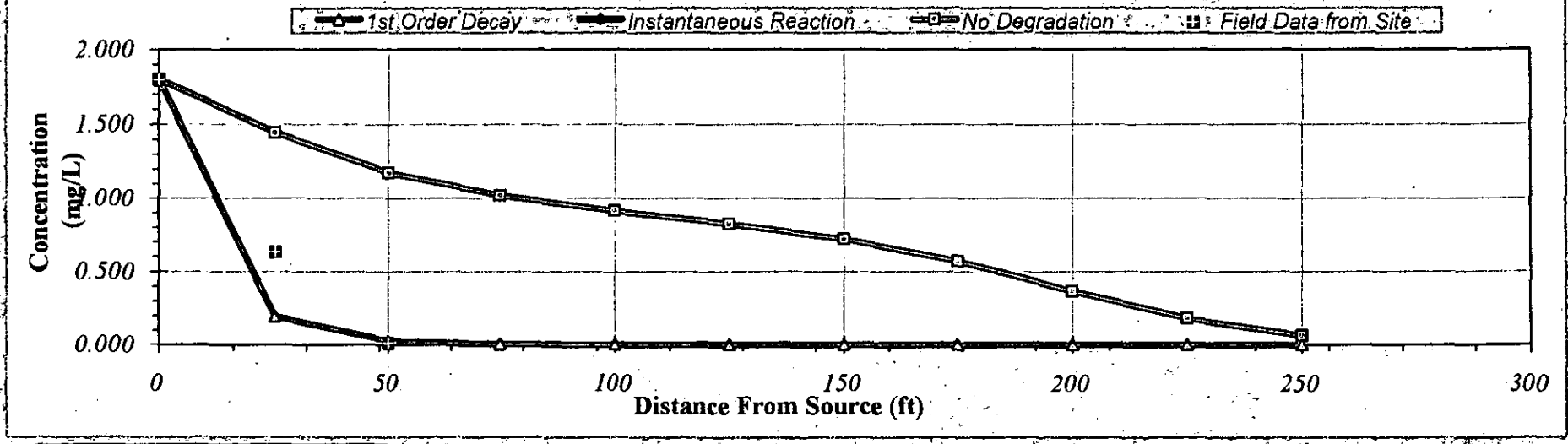
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	25	50	75	100	125	150	175	200	225	250
No Degradation	1.800	1.444	1.173	1.018	0.912	0.823	0.719	0.566	0.367	0.180	0.063
1st Order Decay	1.800	0.192	0.021	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	1.800	1.444	1.173	1.018	0.912	0.823	0.719	0.566	0.367	0.180	0.063
Field Data from Site	1.800	0.630	0.012								



Calculate Animation

Time: 30 Years

Return to Input

Recalculate This Sheet

APPENDIX F
SSTL CALCULATIONS

BUSTR Tier 2 Soil To Indoor Air Pathway Evaluation

Version 1.0 (May 2001)

	Chemical Name	D^{air} cm^2/s	D^{wat} cm^2/s	H Dimensionless	K_{oc} cm^3/g	SF_i 1/(mg/kg-day)	RfD_i mg/kg-day
Chemical of Concern							
Benzene							

Use only if "other" is slected as Chemical of Concern

more

Receptor

Residents

Soil Type

Silty/Clayey Sands

Depth of Source (feet)

4

Tier 1 default = 12

Building

Residential Structure

Site Name (Title 1)	Left Page Footer 1	Right Page Footer 1
SSA Unit #3642		
Site Address (Title 2)	**Left Page Footer 2**	**Right Page Footer 2**
939 East River Road - Rossford, Oh		Filename

Print Tables

Reset Tables

SSA Unit #3642
939 East River Road - Rossford, Ohio

Table 1

Subsurface Soil to Indoor Air
Summary of Input Parameters
(Residents / Silty/Clayey Sands / Benzene)

Description	Source / Default	Symbol	Value	Units
Target Risk Levels				
Target Risk	Default	TR	1.0E-05	unitless
Target hazard quotient	Default	THQ	1.0	unitless
Exposure Parameters for Residents				
Averaging Time for Carcinogens	Default	AT_c	70	yr
Averaging Time for Non-Carcinogens	Default	AT_n	17 adult / 6 child	yr
Body Weight	Default	BW	70 adult / 15 child	kg
Exposure duration	Default	ED	17 adult / 6 child	yr
Exposure frequency	Default	EF	350	d/yr
Exposure time for indoor air	Default	ET	16	hr/d
Daily indoor inhalation rate	Default	IR_{air}	0.625	m^3/hr
Vadose Zone Hydraulic Parameters				
Depth to bottom of basement	Default	L_1	243.84	cm
Depth to top of subsurface soil sources	8.0 Feet	L_2	245	cm
Soil thickness between bottom of basement and source	L_2-L_1	L_s	1.16	cm
Vadose Zone Soil Parameters for Silty/Clayey Sands				
Fraction organic carbon	Site Specific / 0.0025	F_{oc}	0.01334	g oc/g soil
Total soil porosity vadose zone	Default	Θ_T	0.43	cm^3/cm^3
Volumetric water content in vadose zone	Default	Θ_{ws}	0.15	cm^3/cm^3
Volumetric air content in vadose zone soils	Θ_T - Θ_{ws}	Θ_{as}	0.28	cm^3/cm^3
Soil bulk density	Default	ρ_s	1.6	g/cm^3
Indoor Volitilization / Building Parameters for Residential Structure				
Enclosed-space air exchange rate	Default	ER	1.39E-04	1/s
Enclosed-space volume/infiltration area ratio	Default	L_B	487.68	cm
Enclosed-space foundation or wall thickness	Default	Lcrack	15	cm
Areal fraction of cracks in foundations/walls	Default	η	0.001	cm^2/cm^2
Vol. air content in foundation/wall cracks	Default	Θ_{acrack}	0.25	cm^3/cm^3
Vol. water content in foundation/wall cracks	Default	Θ_{wcrack}	0.19	cm^3/cm^3
Chemical and Physical Properties for Benzene				
Diffusivity in air	Default	D^{air}	8.80E-02	cm^2/s
Diffusivity in water	Default	D^{wat}	9.80E-06	cm^2/s
Henry's Law Constant	Default	H	2.28E-01	unitless
Soil / Water Partition Coefficient	Default	K_{oc}	5.89E+01	cm^3/g
Partioning Coefficient	Koc x Foc	Ks	7.86E-01	cm^3/g
Slope Factor Inhalation	Default	SF_i	2.90E-02	1/(mg/kg-day)
Reference Dose Inhalation	Default	RfD_i	ND	mg/kg-day

Tier 2 SSTL (mg/kg) 3.41E+00

SSA Unit #3642
939 East River Road - Rossford, Ohio

Table 2

Subsurface Soil to Indoor Air
Derivation of Volatilization Factor
(Residents / Silty/Clayey Sands / Benzene)

$$VF = \frac{\dfrac{H\rho_s}{\theta_{WS} + k_s\rho_s + H\theta_{as}}\left[\dfrac{\dfrac{D_s^{eff}}{L_s}}{ER\ L_B}\right]}{1 + \left[\dfrac{\dfrac{D_s^{eff}}{L_s}}{ER\ L_B}\right] + \left[\dfrac{\dfrac{D_s^{eff}}{L_s}}{\left(\dfrac{D_{crack}^{eff}}{L_{crack}}\right)\eta}\right]} X\,1000$$

$$D_s^{eff} = D^{air}\frac{\theta_{as}^{3.33}}{\theta_T^2} + D^{wat}\frac{1}{H}\frac{\theta_{ws}^{3.33}}{\theta_T^2}$$

$$D_{crack}^{eff} = D^{air}\frac{\theta_{acrack}^{3.33}}{\theta_T^2} + D^{wat}\frac{1}{H}\frac{\theta_{wcrack}^{3.33}}{\theta_T^2}$$

Parameter	Θ_T unitless	D^{air} cm^2/s	D^{wat} cm^2/s	H unitless	Θ_{as} unitless	Θ_{ws} unitless	Θ_{wcrack} unitless	Θ_{acrack} unitless	D eff crack cm^2/s	D eff s cm^2/s
Value	0.43	8.80E-02	9.80E-06	2.28E-01	0.28	0.15	0.19	0.25	4.71E-03	6.86E-03

Parameter	Ps g/cm^3	Ks cm^3/g	Ls cm	ER L/s	L_B cm	L_{crack} cm	η cm^2/cm^2	CF cm^3-kg/m^3-g	VF mg/m^3-air per mg/kg-soil
Value	1.6	7.86E-01	1.16	1.39E-04	487.68	15	0.001	1000	1.15E-03

SSA Unit #3642
939 East River Road - Rossford, Ohio

Table 3

Subsurface Soil to Indoor Air
Tier 2 SSTL Calculations
(Residents / Silty/Clayey Sands / Benzene)

SSTL for inhalation of vapors in air (carcinogenic effects)

$$SSTL_{air\text{-}c} = \frac{TR \times BW \times AT_c \times 365\frac{days}{year} \times 10^3\ \frac{ug}{mg}}{SF_i \times IR_{air} \times ET \times EF \times ED}$$

Commercial Equation

or

$$SSTL_{air\text{-}c} = \frac{TR \times AT_c \times 365\frac{days}{year} \times 10^3\ \frac{ug}{mg}}{SF_i \times ET \times EF \times \left[\frac{ED_{child} \times IR_{child}}{BW_{child}} + \frac{ED_{adult} \times IR_{adult}}{BW_{adult}}\right]}$$

Residential Equation

Receptors	TR dimensionless	BW kg	AT_c year	CF days/year	CF ug/mg	SF_i 1/mg/kg-day	IR_{air} m^3/hr	ET hours/day	EF days/year	ED years	$SSTL_{air\text{-}c}$ ug/m^3
Resident Adult	1.00E-05	70	70	365	1.00E+03	2.90E-02	6.25E-01	16	350	17	-
Resident Child	1.00E-05	15	70	365	1.00E+03	2.90E-02	6.25E-01	16	350	6	-
									Residential SSTL		3.92E+00

SSTL for inhalation of vapors in air (non-carcinogenic effects)

$$SSTL_{air\text{-}h} = \frac{THQ \times RfD \times BW \times AT_c \times 365\frac{days}{year} \times 10^3\ \frac{ug}{mg}}{IR_{air} \times ET \times EF \times ED}$$

Receptors	THQ dimensionless	BW kg	AT_{nc} year	CF days/year	CF ug/mg	RfD_i mg/kg-day	IR_{air} m^3/hr	ET hours/day	EF days/year	ED years	$SSTL_{air\text{-}h}$ ug/m^3
Resident Adult	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Resident Child	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SSTL for inhalation of indoor vapors from subsurface soils (carcinogenic effects)

$$SSTL_{soil\text{-}air\text{-}c} = \frac{SSTL_{air\text{-}c}}{VF} \times 10^3\ \frac{mg}{ug}$$

Receptors	VF mg/m3-air per mg/kg soil	$SSTL_{air\text{-}c}$ ug/m^3	CF mg/ug	$SSTL_{soil\text{-}air\text{-}c}$ mg/kg
Residents	1.15E-03	3.92E+00	1.00E-03	3.41E+00

SSTL for inhalation of indoor vapors from subsurface soils (non-carcinogenic effects)

$$SSTL_{soil\text{-}air\text{-}h} = \frac{SSTL_{air\text{-}h}}{VF} \times 10^3\ \frac{mg}{ug}$$

Receptors	VF mg/m3-air per mg/kg soil	$SSTL_{air\text{-}h}$ ug/m^3	CF mg/ug	$SSTL_{soil\text{-}air\text{-}h}$ mg/kg
Residents	NA	NA	NA	NA

Applicable Tier 2 SSTL (mg/kg) 3.41E+00

APPENDIX G
BUSTR TIER 2 EVALUATION CHECKLIST

Tier 2 Evaluation Checklist (Page 1 of 4)

Submit to BUSTR within 2 years of submitting the Tier Evaluation Notification.

Contact Person:	Brian Epperson
Phone Number:	(937) 863-6514
Facility Name:	Speedway SuperAmerica LLC #3642
Facility Address:	939 East River Road
	Rossford
County:	Wood
Facility Number:	87000087-N00004
Site Longitude/Latitude:	41 36' 10", 83 33' 56"

Indicate page number for each item below.

Describing the UST Site:

Include current and historical descriptions of the UST site and surrounding area as:

Fig. 1	Applicable 7.5 Min. U.S. Geological Service quadrangle map including the UST site location; map number, longitude, latitude, and location of the quadrangle within the state boundaries;
Fig. 3	Site and surrounding area map;
Fig. 2	Site map;
Fig. 1	Site longitude and latitude;
Fig. 4	Regional geology and hydrogeology; documentation of all information sources, including site cross-sections based on boring logs;
Pg. 1	Information on current UST systems at the site or out-of-service UST systems still existing on the UST site, including age, materials of construction, size, contents, and available precision test results;
NA	Any immediate response actions performed, including free product removal, soil excavation, and any actions taken to abate vapors or address safety concerns; include date(s) of each action, methods/techniques used, amount of material recovered, and current or most recent UST site conditions;
NA	Appropriate documentation of recycling or disposal of any material recovered, including sampling data, analytical data, and lists summarizing the disposal manifests and weigh tickets.

Collecting Data:

Summarize data collection activities and the resulting data, including, as appropriate (See Appendix B for additional information on data presentation):

Pg. 4	Rationale for sampling and testing activities;
Fig. 2	Sample location map;
Pg. 4	Description of the field methodologies including instrument calibration techniques, and the make and model of equipment used.

Tier 2 Evaluation Checklist (Page 2 of 4)

Pg. 4 — Field methodologies employed including instrument calibration techniques, including the make and model of equipment used;

App. B — Documentation from soil boring logs/well construction diagrams, including the type of sampler used (e.g., Shelby tube, California sampler, split-spoon):
- COCs identified by field readings and visual techniques (no olfactory techniques should be used);
- Depth at which saturated conditions were first encountered during drilling and the depth of the static water level;
- Complete description of the soil sample for each interval including moisture content, color, gradation consistency, denotation of horizontal and/or vertical fracturing, type and description of bedrock with differentiation between weathered and competent bedrock, denotation of any voids or significant pressure changes observed (in rock drilling), and graphic illustration of each interval;
- Denotation of which soil sample interval(s) were sent to the laboratory for analysis;
- Sample recovery for each interval.

NA — Well sampling and development logs, including the number and quantity of well purging volumes, purging conditions, date, time, and duration of collection and development;

Tbl. 1 — Groundwater elevations and free product thickness namely:
- Depth-to-fluid, depth-to-water, free product thickness measurements, and top-of-casing and groundwater elevations in tabular form for each well; when available, include historical data in the table and reference the source(s) of all information presented;
- Corrected groundwater elevations for free product thickness per American Petroleum Institute (API) Publication 1628.

Fig. 5 — Groundwater elevations:
- Potentiometric surface map using all relevant monitoring wells to establish groundwater contour and flow direction; clearly indicate the collection date(s) for groundwater measurements;
- Justification for the exclusion of specific monitoring wells in determination of flow direction, if any;
- The calculation of the hydraulic gradient in an Appendix.

Tbls. 2-4 — Analytical laboratory results:
- Results in tabular form, by medium; on a separate table, present the most recent results along with historical results, when available; indicate sample collection date(s) and reference source(s) of all data points;
- Include the corresponding method detection limit for each analyte that was below detection limits (i.e., use of NA is not acceptable; show actual detection level);
- Soil and groundwater analytical maps.

Tier 2 Evaluation Checklist (Page 3 of 4)

Fig. 6-10 Concentrations of chemical(s) of concern (COCs) including:
- Concentration maps for soil (in mg/kg) and groundwater (in µg/L); soil maps must also include sample interval depth, and date of sample collection;
- UST site maps indicating the source area(s) locations, point(s) of exposure and concentrations, and spatial distribution of COCs.

Pg. 3 Current & future groundwater use determination:
- All water well logs within a 2,000 ft. radius of the UST site;
- References for all information source(s) used to determine the current and future groundwater use classification;

App. D Saturated zone characterization tests:
- Documentation of any models and calculations used to evaluate data;
- Test data (include at end of the report).

Tbl. 3 Geotechnical tests:
- Geotechnical test results for soil properties; present in tabular form referencing the ASTM method used for each test.

Site Conceptual Exposure Model:

Summarize the exposure pathway analysis:

Pg. 9 The site conceptual exposure model including current and future land use scenarios;

Pg. 9 Land, groundwater and surface water use determinations;

Pg. 10 Identification of complete exposure pathways to be evaluated in Tier 2 (if applicable);

Results of exposure pathway evaluation:
- Exposure pathway evaluation, including identification of potential receptors, source areas, transport mechanisms, points of exposure, routes of exposure; potential receptors considering current and reasonably potential land use; fully document all information sources;
- Justification of exposure pathway elimination and site-specific exposure duration.

Tier Evaluation:

Summarize Tier 1 evaluation results, including identifying exposure pathways that require further tier evaluation (if applicable):

NA Discussion of the tier evaluation results, including recommendations for NFA;

NA Action level determination.

Tier 2 Evaluation Checklist (Page 4 of 4)

Pg. 13	Discuss the results of the tier evaluation performed, including recommendations for NFA;
Pg. 12	SSTL determination: • Present action level and SSTL in tabular form; • Present and document all assumptions, equations, models, literature values, etc. used in determining action levels and SSTL.
App. E & F	Attachments, including descriptions of any models used to evaluate data, providing all assumptions, input parameters, and output values;
NA	Details of any field vapor sampling or any collections of site-specific data;
NA	Discussion of land use/resource use restrictions with source documentation that details the restriction(s).

Interim Response Action:

NA	Summary of any interim response actions, including the volume of soil removed or groundwater treated.

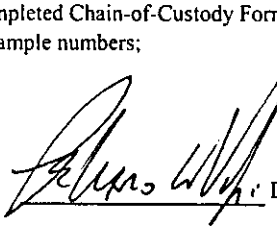
Tier 2 Evaluation Conclusions/Recommendations:

NA	Remedial action(s), if appropriate (details to be included on the Remedial Action Plan);
NA	Discussion of further tier evaluation, if appropriate (details to be included in the Tier 3 Work Plan);
NA	Summary of appropriate monitoring;
Pg. 13	Justification for NFA recommendation (if appropriate).

Supporting Information:

Attach the appropriate supporting documentation, including:

App. F	Printout of BUSTR's Tier 2 spreadsheet;
App. F	Printout of BUSTR's Tier 2 spreadsheet;
Pg. 4	Equipment and standard procedures used;
App. C	Chain-of-custody forms, analytical results, QA/QC procedures, and data quality objectives including all laboratory certificates of analysis (data sheets), completed Chain-of-Custody Forms indicating soil boring/monitoring well numbers and laboratory sample numbers;
Pg. 14	Bibliography of references.

Preparer Name: Richard W. Volpi Preparer Signature:  Date: 6-23-03

O/O Name: Brian Epperson O/O Signature: 6-23-03

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STATE FIRE MARSHAL
BUSTR

SITE ASSESSMENT

SPEEDWAY SUPERAMERICA LLC. UNIT #3642
939 EAST RIVER ROAD
ROSSFORD, OHIO

Prepared For:

SPEEDWAY SUPERAMERICA LLC.
P.O. Box 1500
Springfield, Ohio 45501

MAY 1998

Prepared By:

PARSONS ENGINEERING SCIENCE
19101 Villaview Road, Suite 301
Cleveland, Ohio 44119

Parsons ES Job No. 732903

INTRODUCTION

Parsons Engineering Science (Parsons ES) was retained by Speedway SuperAmerica LLC., Inc. (Speedway) to conduct a site assessment at the Speedway facility in Rossford, Ohio. The site is located at 939 East River Road in Rossford, Ohio (Figure 1). The purpose of this investigation was to determine whether the subsurface soils and groundwater at the site are impacted with hydrocarbon constituents in excess of the site's Category 2 Action Levels. The objectives were approached through the analysis of soil samples obtained from two soil borings (ES-1 and ES-2) completed on 11 March and 12 March 1998 by Northcoast Drilling Services, Inc., under Parsons ES supervision (Figure 2). The soil boring locations were positioned around the dispenser islands and near the sewer lines where hydrocarbons would most likely be present or would have migrated. Results of a previous investigation completed during a site assessment conducted in July 1997 by ATC Associates, Inc. (ATC) were also included in this report.

BACKGROUND INFORMATION

Facility Description

The Speedway facility is located in Rossford, Ohio (Wood County). This active gasoline retail facility is on the northeast corner of the intersection of East River Road and Rossway Road. Land use in the vicinity is both residential and light commercial. Regional topography slopes to the northwest. The underground storage tank (UST) system consists of one 8,000 gallon UST, two 6,000 gallon UST and two dispenser islands. All USTs at the site contain gasoline.

Water, natural gas, storm and sanitary sewer utilities that supply the site are located below ground. Telephone and electric service are supplied by overhead lines. Potable water is supplied by the City of Toledo which draws water from Lake Erie.

Previous Investigations

A UST dispenser and line closure was conducted by ATC Associates, Inc. (ATC) in July 1997. One used oil UST and a gasoline system consisting of dispensers and associated piping were also removed. A site assessment was conducted to evaluate a suspected gasoline release at the site. Three soil borings were advanced at the site, one of which was completed as monitoring

well MW-1. Results of the site assessment indicated soil and groundwater samples were below the Category 2 Action Levels for BTEX and TPH. Soil boring logs and laboratory data have been included in this report.

Local Water Resources and Sources of Supply

The Ohio Department of Natural Resources (ODNR), Division of Water, has indicated that there is one known potable water well within a one-quarter mile radius of the site. Well #362553 is located within 300 feet of the site on the properties north of the site. The well is cased in limestone bedrock and had a static depth to water on the date of installation of 75 feet. The current status of the well is unknown. Drilling logs obtained from ODNR for the wells within a one-half mile radius are included in Appendix A.

Regional Geology

The site is located in the glaciated Lake Erie Plain of Northwestern Ohio. The regional geology consists of lake deposits of silty glacial till. The underlying bedrock is anticipated to be present at 60 to 65 feet below surface and consists of dolomite of the Monroe Formation (White, 1982).

Regional Hydrogeology

Regionally, the subject site is located in an area where the highest water yields are associated with the carbonate bedrock. Water production yields of 100 to 500 gallons per minute have been developed in local water wells drilled from 205 to 453 feet below. Water hardness and hydrogen sulfide content generally increase rapidly with depth. Supplies sufficient for domestic use can often be obtained at depths less than 100 feet below grade (Hallfrisch, 1986). Regional groundwater flow based on surface topography is to the northwest.

INVESTIGATIVE METHODS

Soil Boring and Field Screening

Evaluation of subsurface conditions was conducted by Parsons ES on 11 March and 12 March 1998. Two soil borings were advanced at the site by Northcoast Drilling Service, Inc. under the supervision of an Parsons ES geologist. The two borings were advanced using 4.25--inch (I.D.) hollow-stem augers.

Soil samples were collected with a 2-inch diameter, 24-inch long, split-spoon sampling device using the Standard Penetration Test Method (ASTM Method D-1586). Soil samples were collected continuously throughout the soil section encountered in the borings. Blow counts for each sampled interval are recorded in the Penetration Resistance column on the soil boring logs (Appendix B). Soil samples from the split-spoons were collected and equally divided between two clean glass jars. One jar was secured with a screw-on Teflon™-lined lid, and stored on ice in a cooler for possible laboratory analysis. The other jar was sealed with aluminum foil and secured with a screw-on lid. This jar was held for a minimum of 10 minutes before scanning the headspace for volatile organic compounds (VOCs).

Soil samples were field screened for VOCs using a Photovac Microtip™ photoionization detector (PID). The PID was calibrated with a 100 ppm isobutylene-in-air commercial gas standard, and used in accordance with the manufacturer's operating instructions. The headspace above each sample was scanned for VOCs by piercing the aluminum foil seal with the PID probe, and recording the maximum observed reading in parts per million (ppm) (Table 1).

The undisturbed sample from each boring (unsaturated zone) corresponding to the highest measured VOC reading was selected for laboratory analysis. A soil sample from the bottom of soil boring ES-1 was also selected for laboratory analysis. The samples were placed in a cooler with ice, and transported to IH & Environmental Health Laboratory in Monroeville, Pennsylvania under chain-of-custody procedures. The soil samples from each boring were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW-846 Method 8020, and total petroleum hydrocarbons (TPH) by EPA Method 8015 modified for gasoline. The results of the

laboratory analysis have been summarized in Table 2, and the complete laboratory report has been included as Appendix C.

The field geologist described each sample according to the ES Standard Visual Manual soil classification scheme to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, and soil type for each split-spoon sample is recorded on the soil boring log in Appendix B. Each soil sample was also carefully examined evidence of petroleum hydrocarbons.

All tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse followed by a final rinse with methanol. The equipment was allowed to air dry prior to reuse. Drilling implements, such as the auger flights and center bit, were steam cleaned before beginning each boring.

Stockpiled Auger Cuttings

The auger cuttings and debris accumulated during soil boring installation were placed in five closed top 55-gallon drums and labeled appropriately. The drums were staged onsite awaiting proper disposal.

HYDROGEOLOGICAL ASSESSMENT

Local Geology

Materials encountered in the soil borings consisted of tight silty clays throughout the length of the boring. Trace pebbles were observed in the silty clays from approximately 11 to 22 feet.

Local Hydrogeology

Groundwater was not encountered in either of the soil borings during this site investigation. However, one monitoring well (MW-1) was installed during the previous investigation in the southeast portion of the site. Static groundwater level in MW-1 was measured at 11.28 feet below surface grade on 15 July 1997 (ATC Associates, October 1997,

p. 13). Based on topography, groundwater flow appears to be toward the northwest. A groundwater surface map could not be constructed due to insufficient data with only one monitoring well onsite.

Bureau of Underground Storage Tank Regulations
Site Feature Scoring System (SFSS)

Pertinent information gathered during the site assessment indicated the Speedway SuperAmerica LLC. site located at 939 East River Road in Rossford, Ohio met the requirements to be classified under Category 2 Action Levels for TPH and BTEX in soils and groundwater. The Category 2 Target Action Levels for TPH and BTEX (soils and groundwater) as determined by the Ohio State Fire Marshal "scoring system" (OAC 1301:7-9-13) are listed below:

	Soil	Groundwater
Benzene	0.170 ppm	0.005 ppm
Toluene	7 ppm	1 ppm
Ethylbenzene	10 ppm	0.7 ppm
Xylenes	47 ppm	10 ppm
TPH (gasoline)	300 ppm	--
TPH (others)	642 ppm	--

The State Fire Marshal's SFSS Chart and justification for the referenced site is provided as Appendix E.

Soil Analysis

Results of the field screening for VOCs indicated the highest VOC value was exhibited by sample ES-2, 7 to 9 feet (1553 ppm). Other VOC values ranged from 0.2 ppm to 272 ppm (Table 1).

Laboratory analysis of the soil samples indicated the highest values of BTEX (Method 8020) were associated with soil sample ES-2, 7 to 9 feet (<0.125 ppm, 0.940 ppm, 1.500 ppm and 12.000 ppm, respectively). Soil sample ES-1, 9 to 11 feet exhibited benzene concentration at 0.004 ppm. All other soil samples from the two borings exhibited BTEX concentrations below method detection limits. All soil samples submitted for TPH by Method 8015 were below method detection limits with the exception of ES-2, 7 to 9 feet (260 ppm).

Results from the previous investigation completed by ATC Associates indicated a benzene concentration of 0.009 ppm in the sample from SB-1 26 to 28 feet. The sample from soil boring SB-2, 10 to 12 feet indicated a xylene concentration of 0.014 ppm. The soil sample from boring SB-3, 38 to 40 feet indicated a benzene concentration of 0.012 ppm. All other BTEX constituents in the samples from the three borings were below method detection limits. All soil samples submitted for TPH by Method 8015 were below method detection limits.

The Category 2 Action Levels for BTEX and TPH were not exceeded in soil samples from any of the borings. The results of the soil sample analysis are included in Table 2, and the complete laboratory report is included in Appendix C.

Groundwater Analysis

On 15 July 1998, a groundwater sample was collected by ATC from the newly installed monitoring well. Laboratory analysis of the sample indicated BTEX concentrations below method detection limits. Groundwater analytical results are summarized in Table 4, and the complete laboratory report is included in Appendix D.

REFERENCES

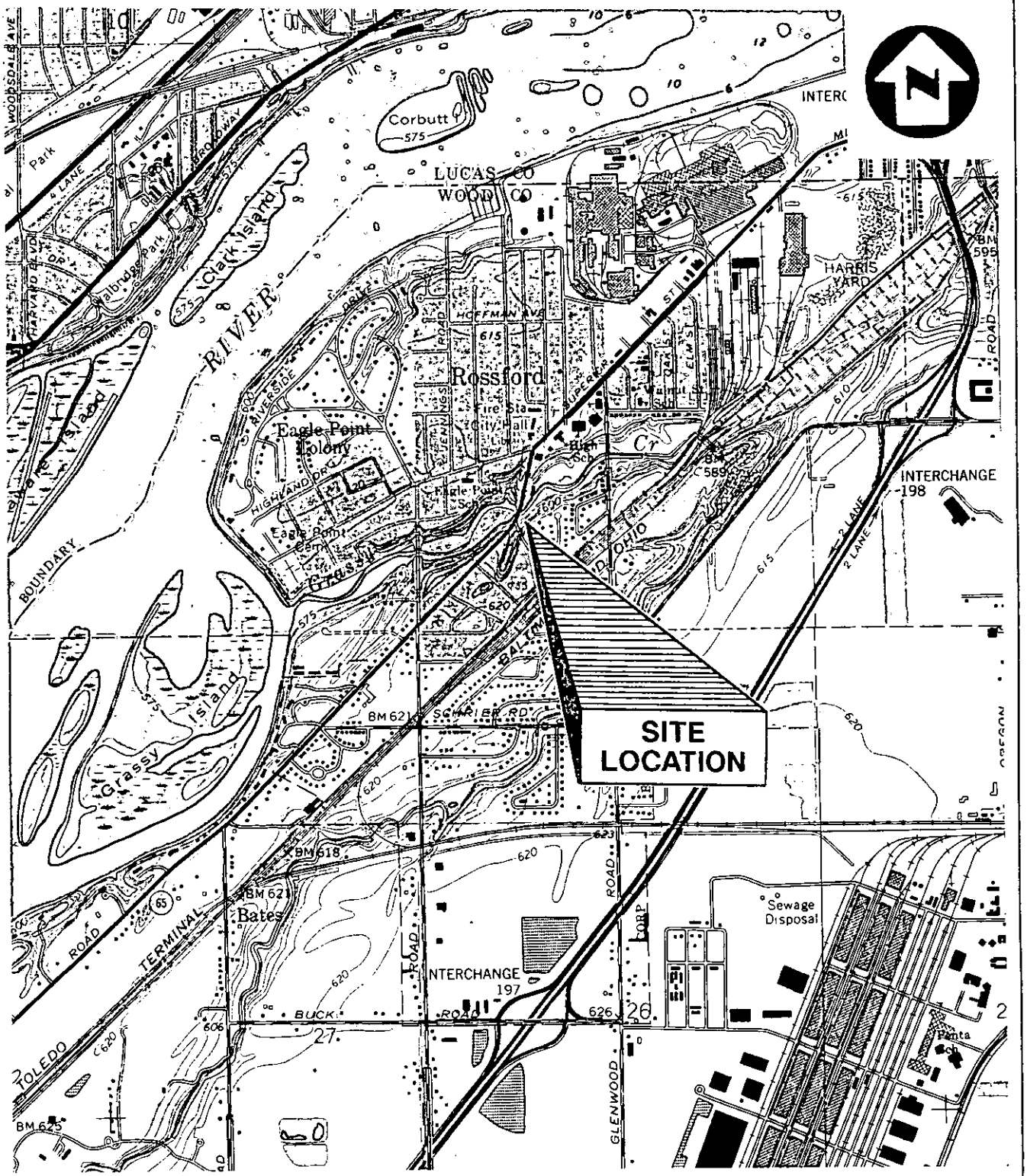
ATC Associates, Inc., October 1997. "UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment".

Hallfrisch, M. 1986. Groundwater Resources of Wood County, Ohio Department of Natural Resources, Division of Water.

White, G. W., 1982. "Glacial Geology of Northeastern Ohio". Department of Natural Resources, Division of Geological Survey, Bulletin 68.

United States Department of the Interior. Geological Survey, Walbridge Quadrangle 7.5 Minute Series (Topographic), 1965.

FIGURE



1000 0 1000 2000 Feet

SCALE

QUADRANGLE LOCATION

SITE LOCATION MAP

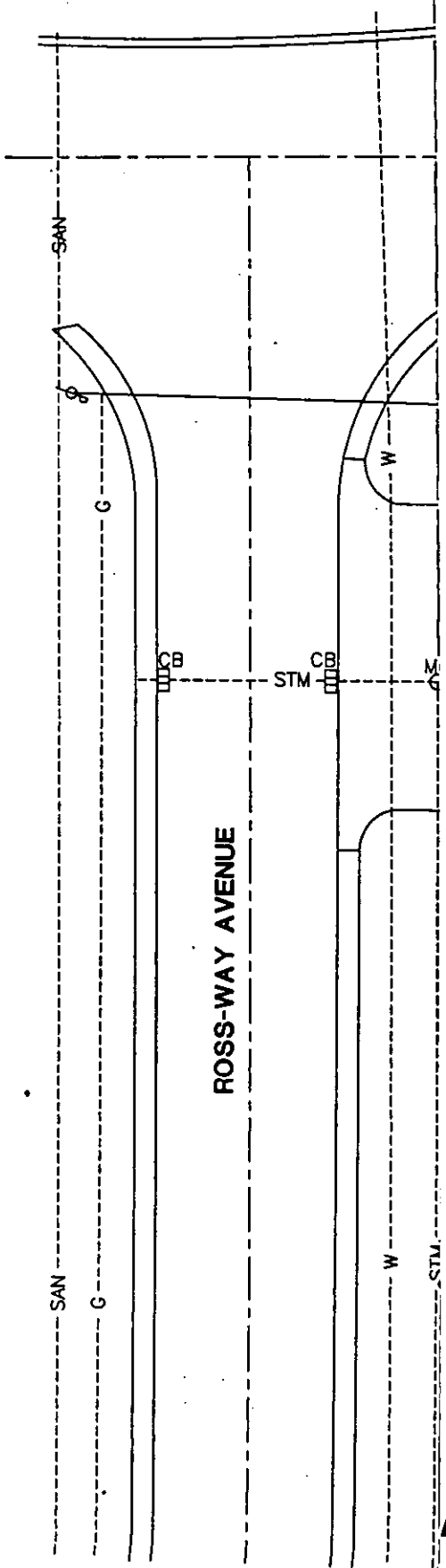
SPEEDWAY SUPERAMERICA LLC. UNIT #3642

939 EAST RIVER RD.
ROSSFORD, OHIO

PARSONS ENGINEERING SCIENCE, INC.

732903
4/3/98 TAM

FIGURE 2



20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

32903C01

732903

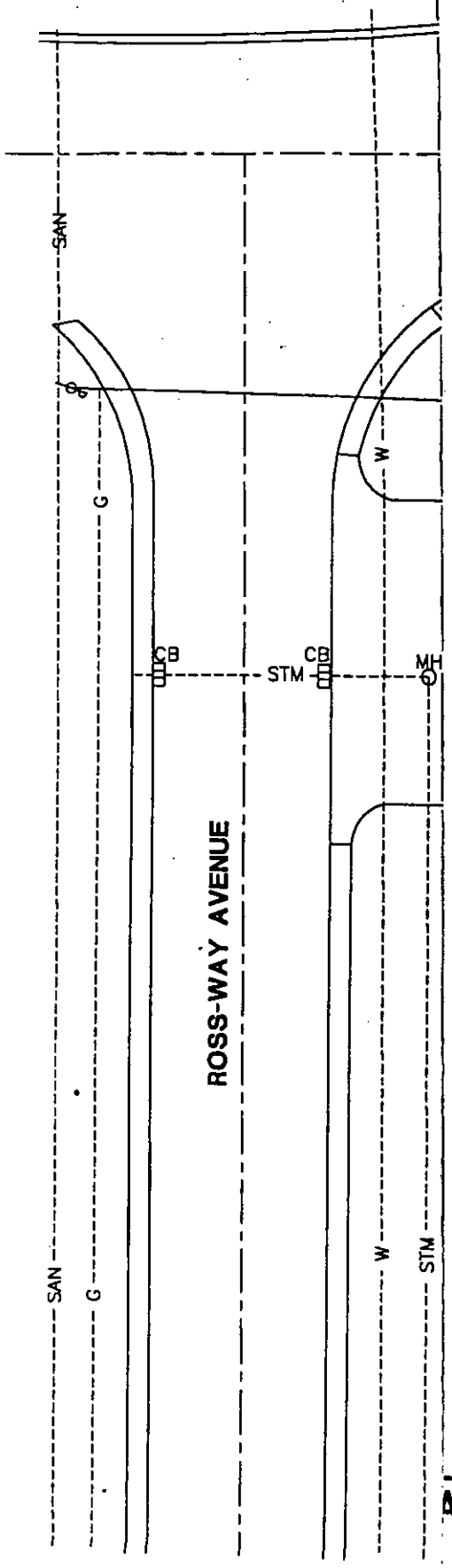
SITE PLAN

AY SUPERAMERICA LLC.

UNIT #3642

939 EAST RIVER ROAD
ROSSFORD, OHIO

FIGURE 3



20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
SAMPLE INTERVAL
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
TOTAL PETROLEUM HYDROCARBONS

CONCENTRATIONS IN PPM

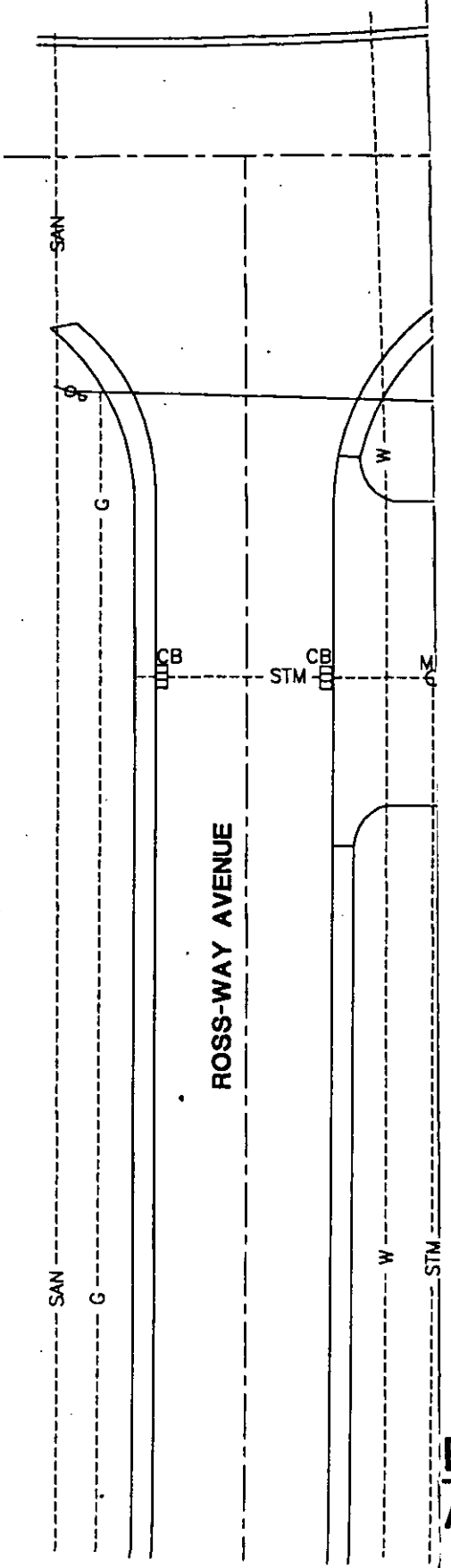
BTEX AND TPH IN SOIL

AY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD
ROSSFORD, OHIO

32903C01

732903.02000

FIGURE 4



20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES

CONCENTRATIONS IN PPM

BTEX IN GROUNDWATER

AY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD
ROSSFORD, OHIO

32903C01

732903.02000

TABLE 1

RESULTS OF VOC FIELD SCREENING - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

11 March and 12 March 1998

Sample Identification	Sample Interval (feet)	VOCs[1] (ppm)
ES - 1 (11 March 1998)	5-7	3.1
	7-9	65.4
	9-11 *	109
	11-13	12.6
	13-15	0.4
	15-17	0.2
	17-19	0.3
	19-21	0.3
	21-23	0.4
	23-25	0.6
	25-27	0.5
	27-29	1.2
	29-31	1.3
	31-33	1.4
	33-35	1.7
	35-37	1.7
	37-39	1.5
	39-41	1.8
	41-43	2.0
	43-45 *	2.0

(1) Volatile Organic Compounds (VOCs) were measured in the field with a Photovac Microtip™ photoionization detector (PID) calibrated with a commercial gas standard of 100 ppm isobutylene-in-air.

* Soil Sample selected for laboratory analysis.

TABLE 1 (continued)

RESULTS OF VOC FIELD SCREENING - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

11 March and 12 March 1998

Sample Identification	Sample Interval (feet)	VOCs[1] (ppm)
ES - 2	5-7	179
(12 March 1998)	7-9 *	1553
	9-11	272
	11-13	127
	13-15	30.6
	15-17	31.7

(1) Volatile Organic Compounds (VOCs) were measured in the field with a Photovac Microtip™ photoionization detector (PID) calibrated with a commercial gas standard of 100 ppm isobutylene-in-air.

* Soil Sample selected for laboratory analysis.

TABLE 2

LABORATORY ANALYSIS - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

Sample Location	Sample Date	Sample Depth (feet)	Volatile Organic Compounds [1]				TPH [2] (ppm)
			Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	
ES-1	11-Mar-98	9 - 11	0.004	<0.002	<0.002	<0.004	<5
	12-Mar-98	43 - 45	<0.002	<0.002	<0.002	<0.004	<5
ES-2	12-Mar-98	7 - 9	<0.125	0.940	1.500	12.000	260
B-1 / MW-1	9-Jul-97	26-28	0.009	<0.002	<0.002	<0.004	<5
B-2	10-Jul-97	10-12	<0.002	<0.002	<0.002	0.014	<5
B-2	10-Jul-97	16-18	<0.002	<0.002	<0.002	<0.004	<5
B-3	10-Jul-97	38-40	0.012	0.010	<0.002	<0.004	<5
Category 2 Action Levels	--	--	0.170	7.000	10.000	47.000	300

(1) Analysis by EPA Method 8020.

(2) Total Petroleum Hydrocarbons (TPH modified for gasoline) by EPA Method 8015.

Note: Soil Borings B-1, B-2, and B-3 were advanced by ATC Associates, Inc.

TABLE 3

LABORATORY ANALYSIS - GROUNDWATER

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

Sample Location	Sample Date	Volatile Organic Compounds [1]			
		Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)
MW-1	15-Jul-97	<0.002	<0.002	<0.002	<0.004
Category 2 Action Levels	--	0.005	1.000	0.700	10.000

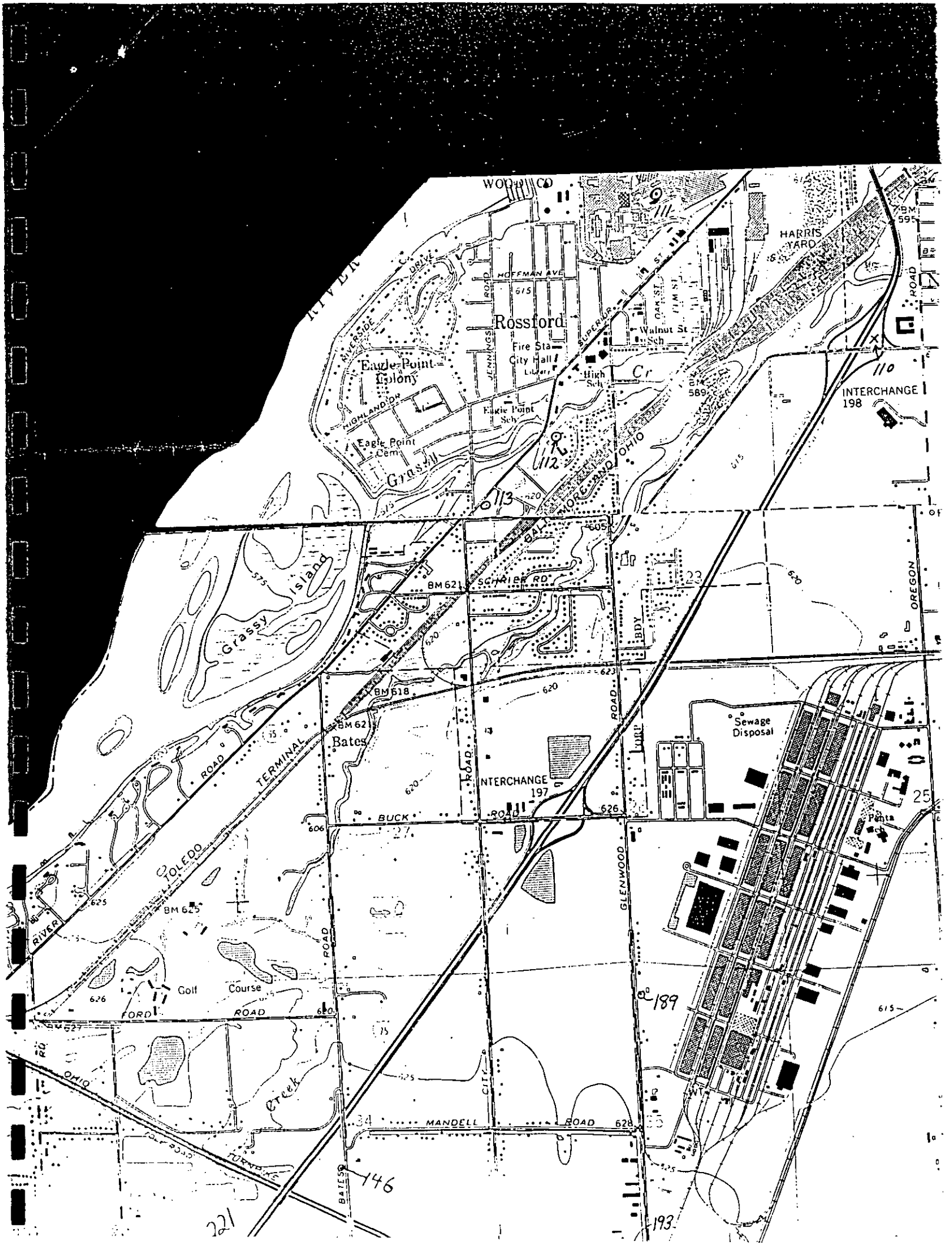
(1) Analysis by EPA Method 8020.

(2) Total Petroleum Hydrocarbons (TPH modified for gasoline) by EPA Method 8015.

Note: Sample collected by ATC Associates, Inc.

APPENDIX A

OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR)
WATER WELL LOGS


Rossford
Eagle Point Colony
Eagle Point Cem.
Eagle Point Sch.
Fire Sta.
City Hall
Library
High Sch.
Walnut St. Sch.
HOFFMAN AVE.
RIVERSIDE DRIVE
HIGHLANDIA
JENNINGS ROAD
SUPERIOR ST.
OAK ST.
ELM ST.
HARRIS YARD
INTERCHANGE 198
INTERCHANGE 197
BALTIMORE AND OHIO
SCHAFER RD.
BUCK ROAD
FORD ROAD
MANDELL ROAD
TERMINAL ROAD
TOLEDO
OREGON
GLENWOOD
BATES ROAD
OHIO TURNPIKE
Grassy Island
Bates
Golf Course
Sewage Disposal
Penta
Creek
BM 625
BM 618
BM 621
BM 595
BM 589
BDY
Cr
RIVER

LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No. 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohio

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4½ Length of casing 81' 4"
Type of screen none Length of screen
Type of pump 1/2 H.P. Sub
Capacity of pump 15 G.P.M.
Depth of pump setting 120 ft.
Date of completion 11/30/1967

BAILING OR PUMPING TEST

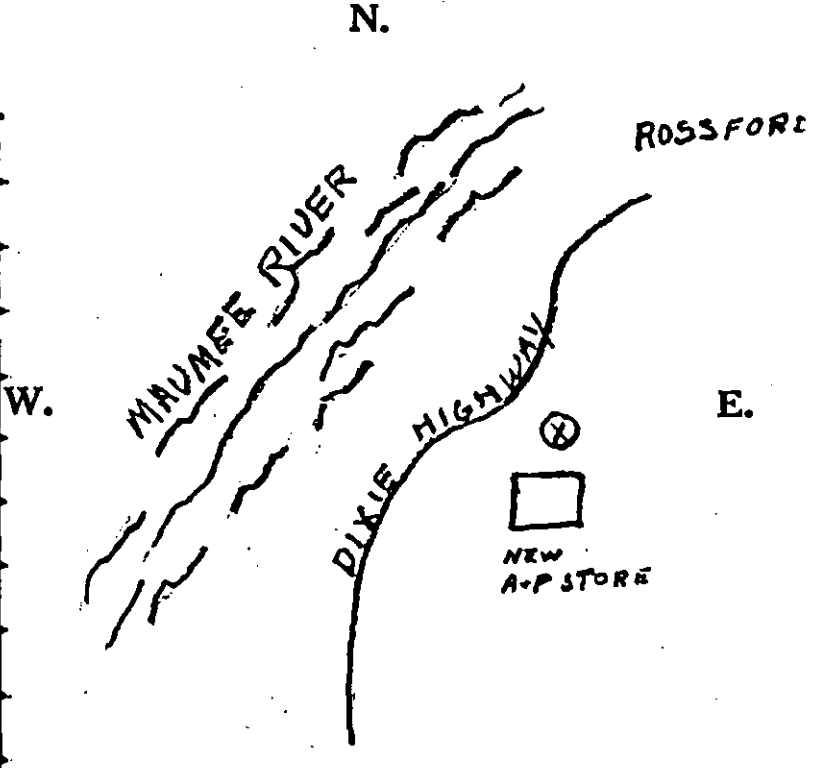
Pumping Rate 20 G.P.M. Duration of test 3 hrs.
Drawdown 10 ft. Date 11/21/1967
Static level-depth to water 75 ft.
Quality (clear, cloudy, taste, odor) clear
Pump installed by Larson Drilling & MAch. Inc.

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft.
Soft Blue Clay	35 ft.	65 ft.
Hard Pan	65 ft.	70 ft.
Soft Blue Clay	70 ft.	77 ft.
Broken Brown Lime	77 ft.	80 ft.
Hard Brown Lime	80 ft.	102 ft.
Hard Gray Lime	102 ft.	115 ft.
Light Brown Lime	115 ft.	130 ft.
Tan Brown Lime	130 ft.	161 ft.
Hard Brown Lime	161 ft.	166 ft.
Bluelsh Gray Lime Hard Traverse	166 ft.	191 ft.
Light Brown Lime	191 ft.	201 ft.

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Larson Drilling & Mach. Inc. Date 4/16/1968
Address 211 W. Sophia St. Maumee, Ohio Signed

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*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

[redacted] WELL LOG AND DRILLING REPORT

EV-5-2723

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 238621

County Wood Township Rossford Section of Township Lot # 19

Owner Lewis Danford Address 1125 Elm Tree Rd. Rossford, Ohio

Location of property Lewis St., Rossford, Ohio

CONSTRUCTION DETAILS

Casing diameter 4½" I.D. Length of casing 70'

Type of screen ..... Length of screen .....

Type of pump ¾ H.P. 2 stage Jet

Capacity of pump 170 GPH. at 120 ft.

Depth of pump setting 150 ft

Date of completion Nov. 27 - 1959

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test 2 hrs.

Drawdown 85 ft. Date Nov. 27, 1959

Developed capacity 480 GPH. at 150 ft.

Static level—depth to water 65 ft.

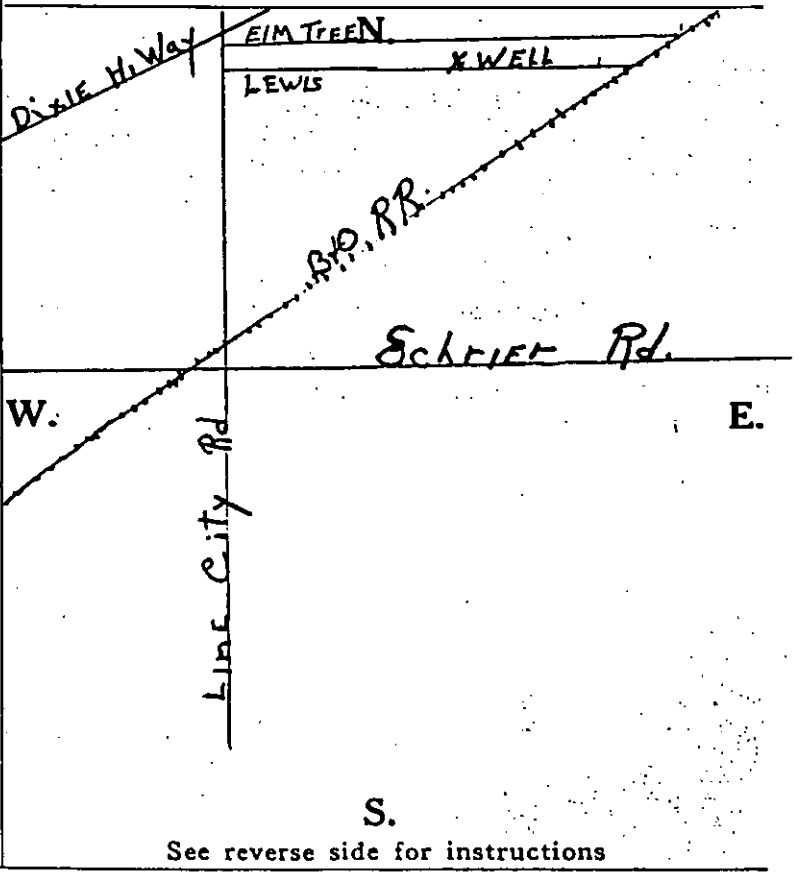
Pump installed by Wendell Bihn

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To ..... Ft.
clay	0	65
LIME STONE	65	176

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Bihn's Well Drilling Date Nov. 27 1959

Address Walbridge Ohio Signed Wendell Bihn

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APPENDIX B

SOIL BORING LOGS

PARSONS
ENGINEERING SCIENCE

LOG OF BORING ES-1

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 11 March 1998	Weather	: Sunny, 20F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 3.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 5"	Scr. Length/slot	: NA

Well: ES-1
Elev.: NA

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	PID (ppm) 0 55 110	DESCRIPTION	GRAPHIC	USCS
0						3" ASPHALT pavement.		
1						FILL material.		FL
2								
3								
4								
5						Tan, moist, plastic, silty CLAY.		
6	1	50%	3 4/5 7	3.1				
7								
8	2	75%	3 3/4 4	65.4				CL
9								
10	3	** 100%	2 3/5 7	109				
11								
12	4	100%	4 6/9 12	12.6		Brown, moist, very stiff, silty CLAY with trace fine gravel.		
13								
14	5	100%	7 13/13 21	0.4				
15								
16	6	100%	6 7/15 18	0.2				CL
17								
18	7	50%	15 15/18 20	0.3				
19								
20	8	100%	8 18/20 21	0.3				
21								
22	9	100%	17 20/22 25	0.4				
23								
24	10	100%	4 6/9 11	0.6		Dark gray, moist, plastic, soft, silty CLAY.		CL
25								

05-20-1998 a:\enviem\crossford\es01.bor

PARSONS
ENGINEERING SCIENCE

LOG OF BORING ES-1

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 11 March 1998	Weather	: Sunny, 20F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 3.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 5"	Scr. Length/slot	: NA

Well: ES-1
Elev.: NA

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	PID (ppm) 0 55 110	DESCRIPTION	GRAPHIC	USCS
25								
26	11	100%	6 11/13 11	0.5				
27								
28	12	100%	3 5/7 9	1.2				
29								
30	13	100%	7 9/10 10	1.3				
31								
32	14	100%	4 5/6 7	1.4				
33								
34	15	100%	9 9/8 9	1.7				
35								CL
36	16	100%	4 4/5 7	1.7				
37								
38	17	100%	3 4/4 4	1.5				
39								
40	18	100%	4 7/7 8	1.8				
41								
42	19	100%	5 5/6 8	2.0				
43								
44	20	** 100%	8 8/12 14	2.0				
45						End of boring at 45 feet.		
46								
47								
48								
49								
50								

Bentonite grout

** Sample submitted for laboratory analysis.

05-20-1998 a:\lerivem\rossford\es01.bor

PARSONS
ENGINEERING SCIENCE

LOG OF BORING ES-2

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 12 March 1998	Weather	: Partly cloudy, 15F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 4.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 8"	Scr. Length/slot	: NA

Well: ES-2
Elev.: NA

Depth in feet	Sample	Recovery %	BLOWS	PID (ppm)	PID (ppm) 0–1600	DESCRIPTION	GRAPHIC	USCS
0						4" ASPHALT.		
1						GRAVEL subbase.		GW
2						Gray and olive, moist, silty CLAY. Fill material: bricks, wood fragments, etc..		
3								
4								
5								
6	1	100%	3 4/6 8	179				
7								
8	2	** 50%	3 6/8 6	1553				
9								
10	3	100%	2 3/4 5	272				CL
11								
12	4	100%	4 4/5 6	127				
13								
14	5	100%	2 2/3 4	30.6				
15								
16	6	100%	3 5/8 4	31.7		Dark gray, moist SILT with trace fine sand.		ML
17						Auger Refusal at 15 feet, spoon to 17 feet.		
18								
19								
20								
21								
22								
23								
24								
25								

Bentonite grout

** Sample submitted for laboratory analysis.

05-20-1998 a:\erivers\rossford\es02.bor

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E River Rd, Rossford Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9 1997 DATE FINISHED: Jul 9 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
0.0		-- --						
	1	4 6	20	0		Asphalt and gravel fill.		
		4				(OH): Brown silty Clay, damp to moist.		
	2	5 8 7	25	0				
		4						
5.0	3	6 9 9	70	0				
		6				(OH): Brwon Clay with some rock fragments grading to silty/sandy near 11 feet, damp.		
	4	12 14 22	80	0				
		9						
	5	10 16 50/2	75	0				
10.0		9						
	6	11 21 28	80	0		(OH): Grey silty Clay, damp		
		5						
	7	8 11 14	80	0				
		5						
15.0	8	16 12 15	90	0				
		6						
	9	11 13 13	90	0				
		6						
	10	8 8 10	100	0.4				
20.0		12				(MH): Grey Silt, damp.		
	11	19 19 14	100	0.4				
		8						
	12	17 21 23	80	0		(MH): Brown-grey Silt, saturated		
		9						
25.0	13	13 12 10	85	0		(OH): Interbedded clayey Silt and silty Clay with thin zones of sandy saturated silt		
		6						
	14	8 10 9	90	2.9				
		8						
	15	15 14 17	80	2.5		(OH): Grey silty Clay, damp		
30.0								

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM 2 inch
CASING MATERIAL PVC
SCREEN MATERIAL: PVC
SLOT SIZE 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9, 1997 DATE FINISHED: Jul 9, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
30.0								
	16	6, 11, 15, 19	80	1.7		(Continued From previous page) (OH): Grey silty Clay, damp.		
	17	6, 5, 5, 3	90	2.1		(MH): Interbedded clayey Silt and sandy Silt, saturated.		
35.0	18	6, 9, 12, 7	80	2.1		(OH): Grey clayey Silt and silty Clay with some sandy silt, saturated		
	19	6, 7, 9, 8	100	2.5				End of boring
	20	10, 9, 13, 12	100	2.5				End of sample depth.
40.0								
45.0								
50.0								
55.0								
60.0								

BOTTOM OF TEST BORING: 40.00'

SPT - STANDARD PENETRATION TEST
REC - SAMPLE RECOVERY
ND - NON-DETECTABLE
FID - FLAME IONIZATION DETECTOR
PID - PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM.: 2 inch
CASING MATERIAL: PVC
SCREEN MATERIAL: PVC
SLOT SIZE: 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emco
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0			Asphalt and gravel fill.	
	2	7, 9, 8, 9	30	0.4			
5.0	3	9, 11, 7, 10	0	NR		No recovery, rock in sample tube.	
	4	7, 7, 9, 8	50	3.4		(OL): Brown silty Clay with some gravel.	
	5	5, 5, 5, 5	0	NR			
10.0	6	7, 5, 6, 4	50	23.4			
	7	5, 7, 11, 17	50	2.5			
15.0	8	7, 11, 17, 19	90	2.1		(OL): Grey silty Clay with more silt and fine gravel.	
	9	7, 9, 11, 14	80	2.5			
	10	6, 11, 18, 17	80	2.1		(OL): Same as above with gravel more abundant.	
20.0	11	8, 11, 15, 11	80	1.2			
	12	9, 12, 15, 9	85	0.8			
25.0	13	7, 9, 14, 11	75	0.4		(CL): Brown-grey silty Clay, damp.	
	14	1, 10, 8, 8	70	0		(CL): Grey very silty Clay with some gravel, damp to moist.	
30.0	15	7, 9, 10, 7	80	0			

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emrp
PROJECT LOCATION: 939 E River Rd Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	6 8 11 17	80	0		(Continued from previous page) (CL): Grey very silty Clay with some gravel, damp to moist.	
	17	6 5 7 8	100	0			
35.0	18	7 9 6 5	100	0		(CL): Grey soift Clay with silt, moist	
	19	5 7 7 5	100	0			
	20	5 4 4 4	100	0			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E. River Rd. Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0	NR		Asphalt and Fill.	
	2	5 7 4 6	50	0.4		(CL): Brown silty Clay, damp	
5.0	3	4 6 5 7	50	0			
	4	4 5 8 7	50	0			
	5	6 5 3 5	0	NR			
10.0	6	1 3 2 5	50	0		(CL): Brown-dark brown silty Clay, damp to moist.	
	7	2 4 6 6	100	0.4			
15.0	8	5 11 9 7	60	0.4			
	9	5 7 10 8	60	0.4		(CL): Grey very silty Clay, damp-moist	
	10	5 9 11 10	80	0.4		(CL): Brown silty Clay, damp Rocks at 26 Feet	
20.0	11	5 7 12 14	70	0			
	12	5 9 21 26	80	0			
25.0	13	7 5 13 11	90	0			
	14	7 9 14 13	50	0.4			
	15	5 8 9 8	90	0.4		(CL): Grey Clay, damp-moist	
30.0							

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emco
PROJECT LOCATION: 939 E River Rd Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10 1997 DATE FINISHED: Jul 10 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	9 4 8 3	60	0.4		(Continued from previous page) (CL): Grey Clay, damp-moist.	
	17	1 2 4 3	100	1.7			
35.0	18	1 2 2 1	60	1.2			
	19	1 2 1 2	60	1.2			
	20	1 2 2 1	60	2.1			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING 40 00'

SPT - STANDARD PENETRATION TEST
REC - SAMPLE RECOVERY
ND - NON-DETECTABLE
FID - FLAME IONIZATION DETECTOR
PID - PHOTO-IONIZATION DETECTOR

APPENDIX C

LABORATORY REPORT - SOIL

Parsons ES Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: Euro - Rosford #3642

Project Number: 732903.02000

Sample Date and Description: 3-11,12-98 / 3 soil

Project Manager: Andy Druax

Does report agree with COC? (YES) *NO Initials: DGG

Is Data Review Requested? YES (*NO) Initials: AT / DGG

REPORT SUBMITTED FOR DATA REVIEW:

Date Mailed: _____ Initials: _____
Date Received : N/A Initials: DGG
Date Completed: N/A Initials: _____

RECEIVED FAXED COPIES OF REVIEW:

Date: _____ Initials: _____

TRACKING FORM COMPLETE ✓ Initials: DGG

*OTHER COMMENTS:

06-03-96 DGG

SX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

Customer: CD-124H-2	ATTENTION: Mr. Andrew Truax (PP)
Speedway SuperAmerica LLC (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : Parsons Engineering Science (Eastern) Phone No : 216-486-9005 C.O.C. #: 8843E Unit # : UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 EAST RIVER RD

TRACKING NUMBER: 81011

UEC ID	CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
08318	ES-1 (9-11')	BENZENE/SOIL	4	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08318	ES-1 (9-11')	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08318	ES-1 (9-11')	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08318	ES-1 (9-11')	XYLENE/SOIL	<4	4	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08319	ES-1 (43-45')	BENZENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
08319	ES-1 (43-45')	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
08319	ES-1 (43-45')	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
08319	ES-1 (43-45')	XYLENE/SOIL	<4	4	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
08320	ES-2 (7-9')	BENZENE/SOIL	<125	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
08320	ES-2 (7-9')	TOLUENE/SOIL	940	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
08320	ES-2 (7-9')	ETHYLBENZENE/SOIL	1500	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
08320	ES-2 (7-9')	XYLENE/SOIL	12000	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98

NOTES: METHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
* = Information not supplied by client. < = less than.
# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : _____ Date: 3-19-98

APPROVED: Mark R. Banister Date: 3/19/98
Mark R. Banister, CIH, Quality Assurance Officer

SX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 03/19/1998
PAGE - 1

Customer: CD-124H-2	ATTENTION: Mr. Andrew Truax (PP)
Speedway SuperAmerica LLC (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : Parsons Engineering Science (Eastern) Phone No. : 216-486-9005 C.O.C. #: 8843E Unit # : UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 EAST RIVER RD

TRACKING NUMBER: 81011

UEC ID	CLIENT ID	ANALYTE	PPM	LOD/PPM	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
08318	ES-1 (9-11')	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	03/11/98	03/17/98	03/17/98
08319	ES-1 (43-45')	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	03/12/98	03/17/98	03/17/98
08320	ES-2 (7-9')	TPH-GASOLINE/SOIL	260	13	CALIF. MODIFIED 8015	03/12/98	03/17/98	03/18/98

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* - Information not supplied by client. < - less than.
# - Information not requested by client. N/A - Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : _____ Date: 3-19-98

APPROVED: Mark R Banister Date: 3/19/98
Mark R. Banister, CIH, Quality Assurance Officer

UEC
USX Engineers & Consultants, Inc
A subsidiary of USX Corporation
USX

H & Environmental Health Laboratory
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

No. 8843 E

732903.02000

Emro Unit Name & No. Emro Rossford #3642 Unit Address 939 East River Road City Rossford State Ohio

Project or AFE No. _____ Lab Work Order No. _____ Consultant Name Andrew Tvax Tel. No. 216-486-9005

Emro Project Manager Phil Pavlovicz Tel. No. 937-322-1873 Consultant Firm Parsons ES City Cleveland State OH.

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested		Container Type/Size	Pres. Used			Condition on Receipt	
				Test	Method No.		HCL	HNO₃	H₂SO₄	Status	Initial
	ES-1 (9-11')	3-11-98 11:00	S	BTEX / TPH	8020 / 8015	4oz.				GOOD	DM
	ES-1 (43-45')	3-12-98 10:30	S	" "	↓ ↓	"				↓	↓
	ES-2 (7-9')	3-12-98 13:00	S	" "	↓ ↓	"				↓	↓

Sampler's Name (please print) Adam Tucker Signature Adam Tucker

Special Instructions _____

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by Adam Tucker, Parsons ES, 3-16-98, 10:15
   Received by D. Gibson 3-16-98 10:15
2. Relinquished by D. Gibson 3/16/98 17:00
   Received by Airborne Exp. 3/16/98 17:00
   Airborne #5036463342
3. Relinquished by _____
   Received by Denny Morrow UEC 3-17-98 11AM
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

X Engineers & Consultants Inc.
H Environmental Laboratories
) Tech Center Drive
Moon Township, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/22/97

PAGE - 1

t er: CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
o Marketing Co. (Eastern) Box 1500 lter St. ingfield, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

ACKING NUMBER: 72522

	CLIENT ID	ANALYTE	PPM	LOD/PPM	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
0	L-1	TPH-GASOLINE/SOIL	1000	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/21/97
	-3	TPH-GASOLINE/SOIL	380	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
2	B1-28	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
3	B2-18	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
	2-12	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
5	B3-40	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97

METHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
* - Information not supplied by client. < - less than.
# - Information not requested by client. N/A - Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information. unless otherwise noted.

LYST : Brian L Schuler Date: 7.22.97

VED: Mark R. Banister Date: 7/23/97

Mark R. Banister, CIH, Quality Assurance Officer

Engineers & Consultants Inc.
& Environmental Laboratories
0 Tech Center Drive
roville, PA 15146
HONE: (412)825-2400 FAX: (412)825-2407
IHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/22/97

CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
Marketing Co. (Eastern) 3 1500 r St. field, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No. : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

KING NUMBER: 72522

CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
L-1	BENZENE/SOIL	1700	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L	TOLUENE/SOIL	19000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L-1	ETHYLBENZENE/SOIL	11000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L-1	XYLENE/SOIL	76000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D	BENZENE/SOIL	150	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D-3	TOLUENE/SOIL	2300	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D-3	ETHYLBENZENE/SOIL	3100	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D	XYLENE/SOIL	26000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
31-28	BENZENE/SOIL	9	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
28	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
28	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
31-28	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
18	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
18	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
32-18	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
18	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
32-12	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
12	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
12	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
32-12	XYLENE/SOIL	14	4	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
40	BENZENE/SOIL	12	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
40	TOLUENE/SOIL	10	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
33-40	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
40	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07710/97	07/15/97	07/22/97

THOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
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= Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

: Kim L Schuler Date: 7-22-97

Mark R. Banister Date: 7/23/97

Mark R. Banister, CIH, Quality Assurance Officer

USX Engineers
& Consultants, Inc
A subsidiary of USX Corporation
USX
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

No 6931E

Emro Unit Name & No. SPEEDWAY #3642 Unit Address 939 E. RIVER RD City ROSSFORD State OH

Project or AFE No. _____ Lab Work Order No. _____ Consultant Name MIJA RANCK Tel. No. 614-238-0984

Emro Project Manager PHIL PAVLOVICZ Tel. No. 937-322-1813 Consultant Firm ATC ASSOCIATES City COLUMBUS State OH

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO₃	Pres. Used: H₂SO₄	Condition on Receipt: Status	Condition on Receipt: Initial
L-1	PIPING LINE	7/9/97 805		BTEX/TPH	8020/8015	4oz				GOOD	DM
D-3	DISPENSER	1345									
B1-28		1420									
B2-18		7/10/97 0830									
B2-12		0810									
B3-40		1435									

Sampler's Name (please print) Mija A. Ranck (MIJA RANCK) Signature _____

Special Instructions please return ice & cooler

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by Mija A Ranck 7/14/97 14:00
   Received by Dawn Moran UEC 7-15-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

APPENDIX D

LABORATORY REPORT - GROUNDWATER

Engineers & Consultants Inc.
Environmental Laboratories
Tech Center Drive
eville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/25/97
PAGE - 1

r: CD-124L-3	ATTENTION: Mr. Bill Glaze (PP-Columbus)
Marketing Co. (Eastern) Box 1500 ngfield, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No : 614-238-0984 C.O.C. #: 3523E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 9999 SITE LOCATION : OH-ROSSFORD

CKING NUMBER: 72590

CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
MW001	BENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
W001	TOLUENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
MW001	ETHYLBENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
MW001	XYLENE/WATER	<4	4	EPA 602	07/15/97	07/18/97	07/24/97

ETHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
- Information not supplied by client. < - less than.
- Information not requested by client. N/A - Not Applicable.
time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ST : _____ Date: 7-25-97

: Mark R. Banister Date: 7/25/97
Mark R. Banister, CIH, Quality Assurance Officer

USX Engineers
& Consultants Inc
A subsidiary of USX Corporation
USX

[redacted] Technology Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Nº 3523 E

Emro Unit Name & No. Speedway Station
Unit Address 939 River Rd City Rossford State Ohio
Project or AFE No. _____ Lab Work Order No. _____
Consultant Name Bill Glaze Tel. No. 614-238-0484
Emro Project Manager Phil Pavlovicz Tel. No. 937 322-1873
Consultant Firm ATC Assoc. City Columbus State Ohio

Field Sample No.	Sample Location	Date & Time Collected	H^2O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO_3	Pres. Used: H_2SO_4	Condition on Receipt: Status	Condition on Receipt: Initial
MW001	Rossford, Ohio	7/15 14:00	H_2O	BTEX 602		2/40 ML				Good	DM

Sampler's Name (please print) Bill Glaze Signature Bill Glaze
Special Instructions Need hard copy by 7-31
Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by _____
   Received by Dawn Marsh UCC 7:18-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

APPENDIX E

BUSTR SITE FEATURE SCORING SYSTEM (SFSS) CHART AND JUSTIFICATION

SITE FEATURE SCORING SYSTEM
OAC 1301:7-9-13(E)(3)(I)

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
Speedway SuperAmerica LLC. 207 Walter Street Springfield, Ohio	Speedway SuperAmerica LLC. 939 East River Road Rossford, Ohio Incident #

	COLUMN A		COLUMN B		COLUMN C		COLUMN D	
SITE FEATURES	Score 20 If True	Score	Score 15 If True	Score	Score 10 If True	Score	Score 5 If True	Score
1. Distance of UST system from closest drinking water supply well or intake currently in use.	>1000 feet		301-1000 feet		<301 feet	10	Inside of designated sensitive area	
2. Average depth to groundwater	>50 feet		31-50 feet		15-30 feet or unknown		<15 feet	5
3. Predominant soil type of substratum.	Clay or Shale	20	Silt or Clayey Sands or Fine Sandstone		Silty Sand or Fine Sandstone or Sandstone or Unknown		Clean Sand or Gravel or Conglomerate	
4. Natural and/or manmade conduits or receptors (points).	<8		8-10		11-13		>13	5
Subtotal:		20		0		10		10

Total Score: 40
Category: 2

NATURAL AND/OR MANMADE CONDUITS OR RECEPTORS
OAC 1301:7-9-13(E)(4)(v)

Basements or subsurface foundations within 100 feet of UST system	4 points	4
Storm sewer within 50 feet of UST system	4 points	4
Sanitary sewer within 50 feet of UST system	4 points	4
Septic system leach field within 50 feet of UST system	2 points	0
Water line main within 50 feet of UST system	1 points	1
Natural gas main within 50 feet of UST system	1 points	1
Bedrock area prone to dissolution along joints or fractures (ie caves & sinkholes) within 100 feet of UST system	1 points	0
Faults or known fractures within 100 feet of UST system	1 points	0
Buried telephone/television cable main within 50 feet of UST system	1 points	0
Buried electric cable main within 50 feet of UST system	1 points	0
	Total Points	**14**

SFSS Action Levels (ppm)

TOTAL SCORE	Category 1 <31	Category 2 31-50	Category 3 51-70	Category 4 >71
Soil BTEX	.006/4/6/28	.170/7/10/47	.335/9/14/67	.500/12/18/85
Groundwater BTEX	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10
Soil TPH (8015)	105	300	450	600
Soil TPH (418.1)	380	642	904	1156

Site Feature Score Justification

1. Distance of UST system from closest potable-water supply source within 1/4 mile.

- The closest potable water well is within approximately 300 feet from the site (Log #362553). Other nearby wells are included in the ODNR well logs in appendix A.

2. Average depth to groundwater.

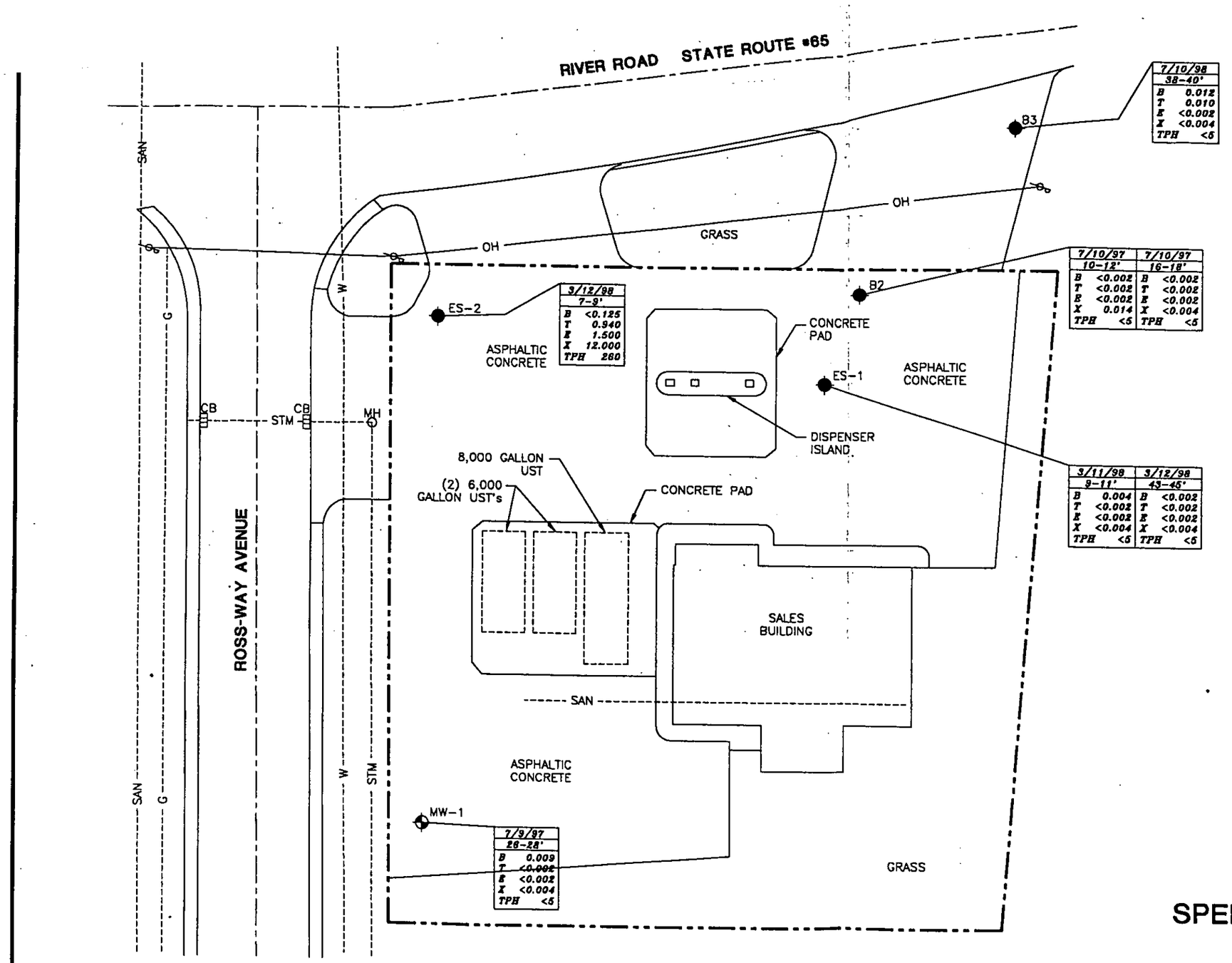
- Depth to groundwater in MW-1 was 11.28 feet on 7 July 1995.

3. Predominant soil type of substratum in the vicinity of the UST excavation.

- Silty clays and clays were encountered throughout the borings. See Appendix B for the soil boring logs.

4. Natural and/or man-made conduits/receptors near UST system.

- Several utilities to the station building are below grade and near the UST system. See Figure 2 for utility and building locations.



20 10 0 20

SCALE IN FEET

LEGEND:

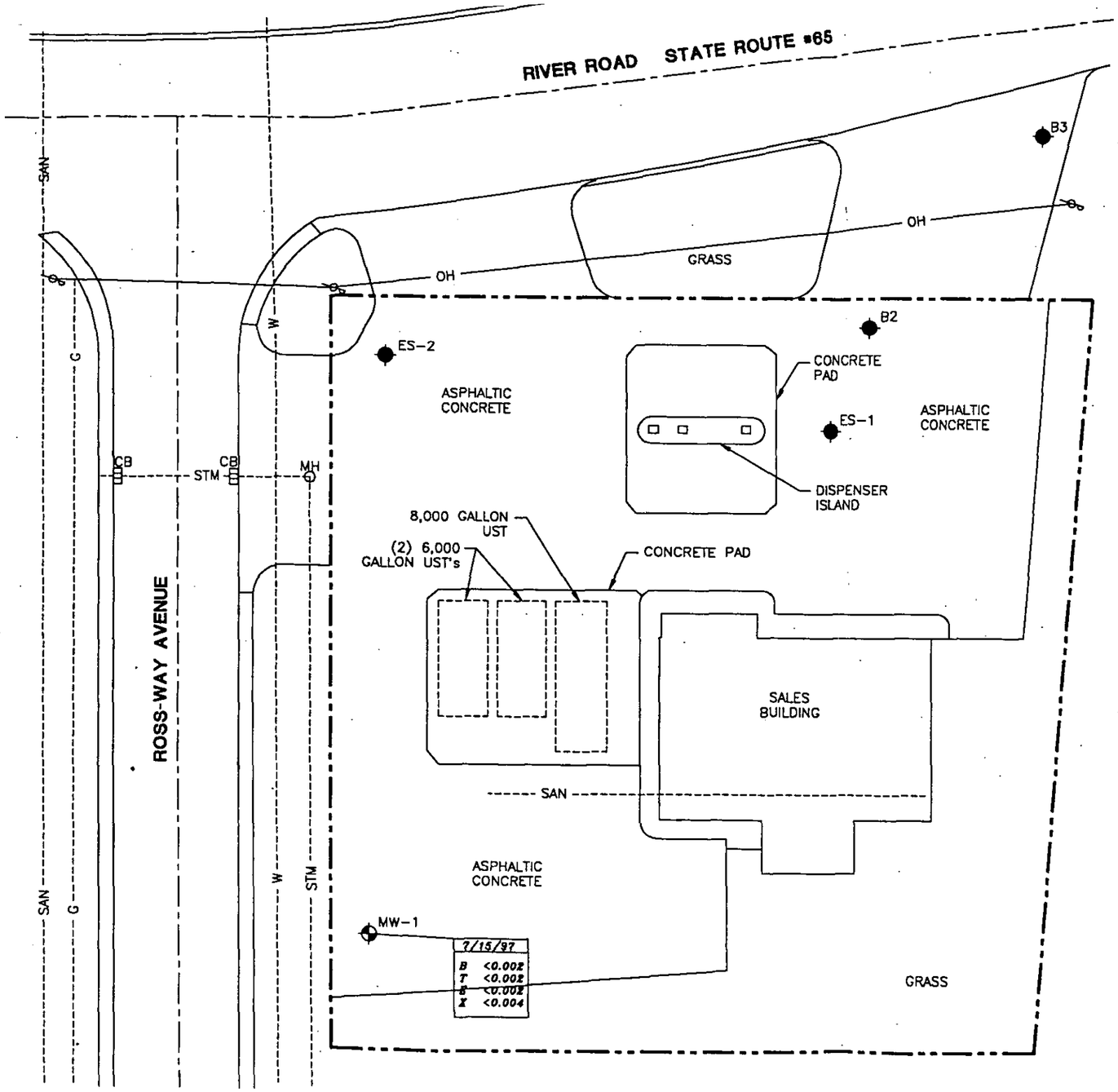
- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
SAMPLE INTERVAL
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
TOTAL PETROLEUM HYDROCARBONS

CONCENTRATIONS IN PPM

BTEX AND TPH IN SOIL
SPEEDWAY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD
POSSE

32903C01



20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES

CONCENTRATIONS IN PPM

BTEX IN GROUNDWATER

SPEEDWAY SUPERAMERICA LLC.

UNIT #3642

939 EAST RIVER ROAD
ROSSFORD, OHIO

32903C01

RECEIVED
2002 JUN 12 AM 10: 16
STATE FIRE MARSHAL

TIER 1 EVALUATION NOTIFICATION CHECKLIST

SPEEDWAY SUPERAMERICA LLC UNIT #3642
939 EAST RIVER ROAD
ROSSFORD, OHIO 43460

BUSTR Release #87000087-N00004 (2)
(OAC 1301: 7-9-13 March 1999)

Prepared For:

SPEEDWAY SUPERAMERICA LLC
P.O. Box 1500
Springfield, Ohio 45501

MAY 2002

Prepared By:

PARSONS
19101 Villaview Road, Suite 100
Cleveland, Ohio 44119-3088

Parsons Job No. 741479

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- Potable Water Source for the Site 3
- Drinking Water Determination 3
- Groundwater Yield Determination 4
- Land Use Determination 4
- Regional Geology 4
- Regional Hydrogeology 4

INTERIM RESPONSE ACTIONS 4

TIER 1 INVESTIGATIVE METHODOLOGY 5
- Soil Sampling Methodology 5
- Local Geology and Hydrogeology 6
- Groundwater Sampling Methodology 6

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2. Surrounding Properties Map
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5. Potentiometric Surface Map – 11 April 2002
6. BTEX, MTBE, and TPH in Soil
7. BTEX and MTBE in Groundwater – 11 April 2002

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Appendix A	Tier I Evaluation Notification Checklist and Drinking Water Determination Checklist
Appendix B	ODNR Potable Water Well Records, Surrounding Property Well Survey, Endorsed Wellhead Protection Area Map, Urban Setting Designations, and State of Ohio Sole Source Aquifers Map
Appendix C	BUSTR Soil Classification Form, Soil Boring Logs, and ODNR Well Log and Drilling Reports
Appendix D	Soil and Groundwater Laboratory Reports

INTRODUCTION

Parsons was retained by Speedway SuperAmerica LLC (SSA) to conduct Tier 1 Evaluation activities at SSA Unit #3642 located at 939 East River Road in Rossford, Wood County, Ohio (Figure 1). This report was prepared in accordance with Ohio Administrative Code (OAC) 1301:7-9-13 (effective 31 March 1999) to address a confirmed release of petroleum hydrocarbons from the gasoline UST system as confirmed on 31 December 1997 when free product was detected in the on-site storm sewers and in nearby Grassy Creek. Based on the cleanup activities, release (#87000087-N00004) was generated. This is the only active release currently at the site. The source area is the area immediately surrounding and downgradient of the gasoline dispensers. The chemicals of concern (COCs) are those associated with Analytical Group 1 (BTEX and MTBE).

SSA has elected to apply the 1999 Corrective Action rule (effective date 31 March 1999) to this release as indicated in the SSA letter to the Bureau of Underground Storage Tank Regulations (BUSTR) dated 27 December 2001.

This document is intended to present and summarize the data required to satisfy the Tier 1 Evaluation Notification Checklist (Appendix A). Supporting information is included below and tables, figures, and appendices have been attached. By submitting this checklist, SSA is informing BUSTR that further evaluation will be conducted at this site, and that a Tier 2 Evaluation Report will be prepared. The Tier 2 Evaluation will detail the data collection procedures and evaluation activities conducted during both the Tier 1 and Tier 2 investigations.

BACKGROUND INFORMATION

Site Description

SSA Unit #3642 is currently an active gasoline retail facility located at 939 East River Road, Rossford, Wood County, Ohio (Figures 1 through 3).

Land use in the area is residential and commercial. The facility is bordered by residences to the west across East River Road. To the south across Rossway Avenue is Rossford Lanes

bowling alley. To the east is a parking lot, and farther to the east is River Ridge Apartments. To the north is a strip mall.

Structures currently located at the site include the following:

- Station building
- Underground storage tank (UST) system:
  - One 8,000-gallon gasoline UST (installed January 1967)
  - Two 6,000-gallon gasoline USTs (installed January 1967)
  - Four gasoline dispensers (installed July 1997)
  - Underground piping associated with the UST system (installed July 1997)
- Above ground utilities include: electric and telephone.
- Below ground utilities include: gas, sanitary sewer, storm sewer, and water.

Structures formerly located at the site include the following:

- UST system:
  - One 550-gallon used oil UST (removed July 1997)
  - Three gasoline dispensers (removed July 1997)

Previous Investigations

The following is a brief outline of the subsurface activities at the site:

- **July 1997:** A closure assessment was conducted in association with the permanent removal of three gasoline dispensers and related underground piping, and one 550-gallon used oil UST. In addition, a site assessment was conducted with the advancement of three soil borings (B-1, B-2, and B-3). Boring B-1 was completed as monitoring well MW-1. Refer to the ATC Associates, Inc. *UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment Report* dated 31 October 1997.

- **March 1998:** Two soil borings (ES-1 and ES-2) were advanced. Refer to the Parsons Engineering Science, Inc. *Site Assessment Report* dated May 1998 for further details.

Source Area

Gasoline is dispensed at the facility, therefore, the COCs at the site are those associated with Analytical Group 1. The current release was confirmed on 31 December 1997 when free product was detected in the on-site storm sewers and in Grassy Creek. The probable sources of petroleum hydrocarbons in soil and groundwater at the site are releases from the gasoline UST system. The current source area is the area immediately surrounding and downgradient of the gasoline dispensers.

The COCs associated with gasoline USTs are benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl-tertiary-butyl-ether (MTBE).

Potable Water Source for the Site

The City of Toledo, whose source is Lake Erie, supplies potable water for the site and surrounding area. Lake Erie is located approximately 8.5 miles northeast of the site.

Drinking Water Determination

For the purpose of this report, the saturated zone (approximately 11 to 35 feet BSG) encountered during drilling at the subject site is considered to be drinking water at this time due to the presence of potable water wells that are located within 2,000 feet of the site. In addition, a surface body of water, Grassy Creek, is located 250 feet of the site. A copy of the Drinking Water Determination Checklist is included in Appendix A. Below is a summary of information gathered to fulfill the requirements of the Drinking Water Determination Checklist:

- As indicated above, drinking water is supplied to the site and surrounding area by the City of Toledo. The city obtains its water from Lake Erie, which is located approximately 8.5 miles northeast of the site. The City of Toledo verified that all surrounding properties are tied-in to the city water supply.
- Communication with the ODNR determined that there are two water wells located within a 2,000-foot radius of the site. A search on the ODNR Division of Water website (*www.dnr.state.oh.us/odnr/water/maptechs/wellogs/app/default.asp*) indicated there are multiple "non-located" well logs within a 2,000-feet radius of the site (Appendix B).
- The addresses of properties within 300 feet of the site were obtained, and postcards were mailed to each address requesting whether or not a potable water well was present on their property. No additional wells have been identified by the survey.
- According to information provided by the OEPA web site (*www.epa.state.oh.us/ddagw/pdu/swap_map.html*), there is no wellhead protection program in the area of SSA Unit #3642 (Appendix B).
- From previous site visits and according to the United States Geological Survey (USGS) Rossford, Ohio 7.5-minute topographic map, there is one surface body of water within 300 feet of the site. It is Grassy Creek, which is located approximately 250 feet north of the site and flows westward into the Maumee River.
- The UST site is not located in an area listed on the Urban Setting Designations posted on the OEPA web site (*www.epa.state.oh.us/derr/vap/usd.html*) (Appendix B).
- The UST site is not located in an area designated as a sole source aquifer (*www.epa.state.oh.us/ddagw/pdu/swap_ssa.html*) (Appendix B).
- Based on the "Ground-Water Resources of Wood County" (Hallfrisch, 1986), SSA Unit #3642 is situated in an area where groundwater is obtained from the carbonate bedrock aquifer. . Groundwater yields of 100 to 500 gallons per minute may be available.
- The site is not located in a sensitive area as defined by OAC Rule 1301:7-9-9.

Groundwater Yield Determination

Based on the groundwater sampling activities conducted during April 2002, the saturated zones encountered by all of the monitoring wells installed at the site are capable of yielding at least 1.5 gallons of water within eight hours. Therefore, for the basis of the attached Tier 1 Evaluation Notification and Drinking Water Determination Checklists (Appendix A), the saturated zones encountered during drilling are considered to be groundwater.

Land Use Determination

Based on a review of the immediately surrounding area, it appears that at least 75% of the surrounding area is residential. Therefore, the current land use will be considered to be residential at this time.

Regional Geology

According to the "Physiographic Regions of Ohio" (Brockman, 1998) the site is located in the Maumee Lake Plains of the Huron-Erie Lake Plains Section of the Central Lowland Physiographic Province. The glacial geology of the area consists of Late Wisconsinan-age lacustrine clay (Pavey, et al, 1999). Bedrock consists of Silurian-age limestone of the Monroe Formation (Bownocker, 1992).

Regional Hydrogeology

Based on the "Ground-Water Resources of Wood County" (Hallfrisch, 1986), SSA Unit #3642 is situated in an area where the principal aquifer is the carbonate bedrock aquifer. Groundwater yields of 100 to 500 gallons per minute may be available.

INTERIM RESPONSE ACTIONS

No interim response actions have been conducted at the site.

TIER 1 INVESTIGATIVE METHODOLOGY

Soil Sampling Methodology

On 6 through 11 March 2002, Northcoast Drilling Service, Inc. advanced six soil borings (MW-2 through MW-6 and ST-1) at SSA Unit #3642 under the supervision of a Parsons geologist. Borings MW-2 through MW-6 were advanced using 4.25-inch ID hollow-stem augers (HSA). Soil boring ST-1 was advanced for the collection of a Shelby Tube sample under the supervision of a Parsons geologist.

The first five feet of each boring was hand dug using a four-inch diameter stainless steel hand auguring device to prevent damaging potentially unmarked underground utilities. Soil samples for MW-2 through MW-6 were then collected continuously from five feet to the total depth of the borings with a two-inch diameter, 24-inch long, split-spoon sampling device using the Standard Penetration Test Method (ASTM Method D1586). Blow counts for each sampled interval are recorded on the soil boring logs (Appendix C). Sampling methodology was consistent with OAC 1301:7-9-13, and with procedures employed at all SSA sites. Water saturated soils were encountered in all of the borings. The headspace above each soil sample was scanned for volatile organic compounds (VOCs) with a Photovac Microtip™ photoionization detector (PID) probe, and the maximum observed reading was recorded in parts per million (ppm) (Appendix C). The samples were preserved in accordance with the prescribed laboratory requirements, placed on ice in a cooler, and transported under chain-of-custody procedures to Bio-Chem Laboratories (Bio-Chem) in Grand Rapids, Michigan. The samples were analyzed for BTEX and MTBE by EPA Method 8021B. The results of the laboratory analysis have been summarized in Table 2 and a complete laboratory report has been included as Appendix D.

Undisturbed soil samples from soil borings ST-1 (5-7') and MW-6 (19-21') were collected with a 24-inch long, one-time use Shelby Tube sampling device using the Standard Method for Thin-Walled Tube Sampling of Soils (ASTM D-1587). The ends of both Shelby Tubes were then sealed with paraffin, capped, and sealed with tape. The Shelby Tubes were

then stored in a cool place where shock, vibration, and disturbance were kept at a minimum until delivery to JLT Laboratories, Inc. of Canonsburg, PA.

Copies of the soil boring/monitoring well logs along with the well log and drilling reports have been included as Appendix C. A cross section map (Figure 4) has been constructed to illustrate subsurface conditions from MW-5 to MW-6.

Local Geology and Hydrogeology

Soils encountered beneath the asphalt and concrete pavement and base fill materials, consisted of brown to gray silty clays. Dark gray, poorly sorted sand was encountered in MW-5 at 32 feet BSG down to the total depth of the boring. Based upon the measured groundwater elevations, there appears to be two distinctive groundwater zones, each of which exhibits movement towards the south.

Groundwater Sampling Methodology

On 11 April 2002 the site was surveyed and depth to fluid measurements were recorded for all monitoring wells (MW-1 through MW-6). The elevation of all the site monitoring wells was measured at the north side of the monitoring well casing relative to the site benchmark. On 11 April 2002 depth to fluid measurements were collected and referenced to the north side of the monitoring well casing. Table 1 summarizes the depth to fluid measurements and relative elevations. A groundwater surface map was generated using this data and is included as Figure 5.

On 11 April 2002, groundwater samples were collected from monitoring wells MW-1 through MW-6. Each monitoring well was purged of static water in preparation for sample collection. Purging of monitoring well MW-1 consisted of bailing the well dry. Purging of monitoring wells MW-2 through MW-6 consisted of bailing three well volumes of groundwater. The wells were then allowed to recharge before water samples were collected.

Water samples were collected with disposable bailers, and divided between two laboratory supplied 40-milliliter vials. The samples were preserved in accordance with the prescribed laboratory requirements, placed on ice in a cooler, and transported under chain-of-

custody procedures to Bio-Chem Laboratories in Grand Rapids, Michigan. The samples were analyzed for BTEX and MTBE by EPA Method 8021B. The results of the laboratory analysis have been summarized in Table 3 and the complete laboratory report has been included as Appendix D

All soils generated during drilling activities and the purge and development water generated during sampling activities were stored onsite in labeled 55-gallon, closed top drums, awaiting proper disposal.

ACTION LEVEL DETERMINATION

Information collected for this Tier 1 Evaluation indicates the following:

- The COCs are Analytical Group 1 (BTEX and MTBE).
- The uppermost-saturated zone is considered to be groundwater and a drinking water source.
- The average depth to the groundwater is between 15 and 30 feet BSG.
- The soil type that best represents the soil underlying the UST site is silty/clayey sands. The silty/clayey sands soil type was determined due to its presence above the saturated zone.

Based on the above information, the Site Specific Target Levels which apply to SSA Unit #3642 are:

- Table 1301:7-9-13(I)(3)(d)(i) – Groundwater ingestion pathway
- Table 1301:7-9-13(I)(3)(d)(ii) – Soil direct contact pathway
- Table 1301:7-9-13(I)(3)(d)(iv)(b) – Silty/clayey sand soil leaching to drinking water pathway
- Table 1301:7-9-13(I)(3)(d)(v)(b) – Silty/clayey sand soil volatilization to indoor air pathway
- Table 1301:7-9-13(I)(3)(d)(vi)(b) – Groundwater to indoor air volatilization pathway for silty/clayey sand

Based on these tables, the maximum allowable concentrations in sand/gravel soil types are listed below:

	Soil	Groundwater
Benzene	0.240 ppm	0.005 ppm
Toluene	112 ppm	1.0 ppm
Ethylbenzene	131 ppm	0.700 ppm
Xylenes	1,500 ppm	10.0 ppm
MTBE	0.890 ppm	0.040 ppm

SUMMARY

Depths to fluid measurements encountered at the site are summarized on Table 1 and Figure 5. The laboratory analytical results for soil samples are summarized in Table 2. The distribution of BTEX and MTBE in soil samples is depicted on Figure 6. Copies of the laboratory reports are included in Appendix D.

The laboratory analytical results for groundwater samples are summarized in Table 3 and the distribution of BTEX and MTBE in groundwater samples is depicted on Figure 7. A copy of the laboratory report is included as Appendix D.

A Tier 1 screening level table has been included as Table 5 to compare results of soil and groundwater sample analyses to the respective Tier 1 Action Levels.

CONCLUSION

The Tier 1 Evaluation results indicate that the maximum benzene concentrations detected in soil exceed the Tier 1 Action Levels for the silty/clayey sand soil type. In addition, the maximum benzene, ethylbenzene, and/or MTBE concentrations detected in groundwater exceeded the Tier 1 Action Level for the groundwater ingestion pathway at wells MW-4 and MW-5. Based on the results presented in this report, SSA will initiate a Tier 2 Evaluation of the site.

REFERENCES

Bownocker, J.A., reprint of 1992. "Geologic Map of Ohio" State of Ohio Department of Natural Resources (ODNR), Division of Geological Survey (map).

Brockman, C.S., 1998. "Physiographic Regions of Ohio", ODNR, Division of Geological Survey (map).

Hallfrisch, M., 1986. "Ground-Water Resources of Wood County", ODNR, Division of Water (map).

Pavey, R.R., et al, 1999. "Quaternary Geology of Ohio", ODNR, Division of Geological Survey (map).

TABLE 1

DEPTH TO FLUID MEASUREMENTS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Well Identification	Date	Well Diameter (inches)	Total Depth (feet)	Depth to Fluid (feet)	Depth to Water (feet)	PSH Thickness (feet)	Relative Well Elevation (feet)	Relative Groundwater Elevation (feet)
MW-1	11-Apr-02	2	34.16	11.81	11.81	0.00	100.88	89.07
MW-2	11-Apr-02	2	39.89	33.48	33.48	0.00	97.19	63.71
MW-3	11-Apr-02	2	41.22	35.11	35.11	0.00	98.44	63.33
MW-4	11-Apr-02	2	15.92	6.96	6.96	0.00	97.98	91.02
MW-5	11-Apr-02	2	32.43	10.81	10.81	0.00	97.91	87.10
MW-6	11-Apr-02	2	38.46	26.14	26.14	0.00	96.70	70.56
S-1	11-Apr-02	4	10.19	3.12	3.12	0.00	99.04	95.92
S-2	11-Apr-02	12	9.85	3.23	3.23	0.00	99.37	96.14

PSH Phase Separated Hydrocarbons

(1) North side of manhole cover (surface grade) relative to the site banchmark, assigned an arbitrary value of 100.00 feet. As of April 2002, the site benchmark is the top bolt of the fire hydrant located at the western corner of the site near the Speedway sign.

(1) When PSH is present, groundwater elevations are corrected by first multiplying PSH thicknessby the specific gravity of hydrocarbons (assumed to be 0.76), then subtracting the calculated PSH thickness from the depth to water measurement.

TABLE 2

RESULTS OF LABORATORY ANALYSIS - SOIL

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Interval (feet)	Sample Date	Volatile Organic Compounds (VOCs) [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPH-GRO *(Method 8015)* (ppm)
Action Levels (silty/clayey sand soil):			**0.240**	**112**	**131**	**1,500**	**0.890**	**NA**
Closure Assessment and Site Assessment - July 1997								
L-1	4'	09-Jul-97	1.7	19.0	11.0	76.0	---	1,000
D-3	2'	09-Jul-97	0.150	2.3	3.1	26.0	---	380
B-1/MW-1	26-28'	09-Jul-97	0.009	< 0.002	< 0.002	< 0.004	---	< 5.0
B-2	10-12'	10-Jul-97	< 0.002	< 0.002	< 0.002	0.014	---	< 5.0
	16-18'	10-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
B-3	38-40'	10-Jul-97	0.012	0.010	< 0.002	< 0.004	---	< 5.0
UST001 (Used Oil UST)	6'	15-Jul-97	< 0.005	< 0.005	< 0.005	< 0.010	---	< 10.0
Site Assessment - March 1998								
ES-1	9-11'	11-Mar-98	0.004	< 0.002	< 0.002	< 0.004	---	< 5.0
	43-45'	12-Mar-98	< 0.002	< 0.002	< 0.002	< 0.004	---	< 5.0
ES-2	7-9'	12-Mar-98	< 0.125	0.940	1.5	12.0	---	260
Tier 1 Evaluation - March 2002								
MW-2	9-11'	06-Mar-02	< 0.050	0.100	0.400	5.660	< 0.050	---
	33-35'	06-Mar-02	0.013	< 0.010	< 0.010	< 0.030	< 0.010	---
MW-3	9-11'	07-Mar-02	0.018	0.011	0.013	0.088	< 0.010	---
	33-35'	07-Mar-02	0.055	0.035	0.016	0.076	< 0.010	---
MW-4	7-9'	07-Mar-02	**0.400**	0.017	0.140	0.142	0.350	---
	9-11'	07-Mar-02	**0.360**	0.021	0.059	0.137	0.210	---
MW-5	5-7'	07-Mar-02	0.180	0.028	0.064	0.301	0.065	---
	7-9'	07-Mar-02	**0.400**	4.600	8.300	68.0	0.200	---
	9-11'	07-Mar-02	**1.300**	7.500	11.000	84.0	< 0.050	---
	13-15'	07-Mar-02	**1.000**	1.000	2.000	18.7	0.460	---
	29-31'	08-Mar-02	0.050	0.034	0.013	0.078	< 0.010	---
MW-6	1-3'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	5-7'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	17-19'	11-Mar-02	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010	---
	29-31'	11-Mar-02	0.019	0.019	0.010	0.062	< 0.010	---

MTBE	Methyl-tertiary-butyl-ether
TPH-GRO	Total Petroleum Hydrocarbons - Gasoline Range Organics
ppm	parts per million
Bold	indicates value above Tier 1 Action Levels
(1)	Samples analyzed by EPA Method 8020 or 8260, with the exception of sample UST001 which was analyzed for VOAs by EPA Method 8240 and TPH by EPA Method 418.1.
---	Not analyzed for indicated parameter.

TABLE 3

RESULTS OF LABORATORY ANALYSIS - GROUNDWATER

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification	Sample Date	Volatile Organic Compounds [1] Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
Action Levels		**0.005**	**1.0**	**0.7**	**10.0**	**0.040**
MW-1	15-Jul-97	< 0.002	< 0.002	< 0.002	< 0.004	---
	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-2	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-3	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004
MW-4	11-Apr-02	**3.1**	**0.069**	**2.1**	9.630	**2.6**
Duplicate	11-Apr-02	**2.8**	**0.110**	**2.0**	9.320	**2.6**
MW-5	11-Apr-02	0.0018	< 0.001	0.0012	< 0.0047	**0.270**
MW-6	11-Apr-02	< 0.001	< 0.001	< 0.001	< 0.003	< 0.004

MTBE Methyl-Tertiary-Butyl-Ether

ppm parts per million
Bold Value exceeds Action Levels

(1) Samples analyzed by EPA Method 602 or 8021.

TABLE 4

RESULTS OF LABORATORY ANALYSIS - GEOTECHNICAL PARAMETERS

Speedway SuperAmerica LLC Unit #3642
939 East River Road
Rossford, Ohio

Sample Identification Sample Interval (feet) Sample Date	MW-3 9-11' 07-Mar-02	MW-3 33-35' 07-Mar-02	ST-1 5-7' 11-Mar-02	MW-6 19-21' 11-Mar-02
TOC (%) (ASTM D2974)	1.8	1.9	---	---
USCS Soil Classification (ASTM D2487)	---	---	Sandy Silty CLAY (CL-ML)	Sandy Silty CLAY (CL)
USCS Grain Size Distribution (ASTM D422)				
Gravel (%)	---	---	8.5	4.2
Sand (%)	---	---	23.9	20.2
Silt (%)	---	---	42.5	43.3
Clay (%)	---	---	25.1	32.3
Atterburg limits (ASTM D4318)				
Liquid Limit	---	---	24	32
Plastic Limmit	---	---	18	19
Plasticity Index	---	---	6	13
Moisture Content (w%) (ASTM D2216)	---	---	16.1	16.35
Specific Gravity (ASTM D854)	---	---	2.73	2.73
Total Porosity (%) (Army Corps of Engineers)	---	---	31.79	31.25
Vertical Hydraulic Conductivity (cm/sec) (ASTM D5084)	---	---	4.63E-08	1.25E-08

TOCs analyzed by Bio-Chem Laboratories located in Grand Rapids, Michigan.
Shelby tube sample analyzed by JLT Laboratories, Inc located in Canonsburg, Pennsylvania.

--- sample not analyzed for indicated parameter.

TABLE 5

TIER 1 SCREENING LEVELS
Silty / Clayey Sands Soil Type
OAC 1301: 7-9-13 (I)(3)

SSA Site #: *3642*
Address: *939 E River Rd*
City / County / State: *Rossford / Wood / OH*

SSA Project Manager: *Brian Epperson*
BUSTR Incident #: *87000087-N00004*
Consultant Project #: *741479*

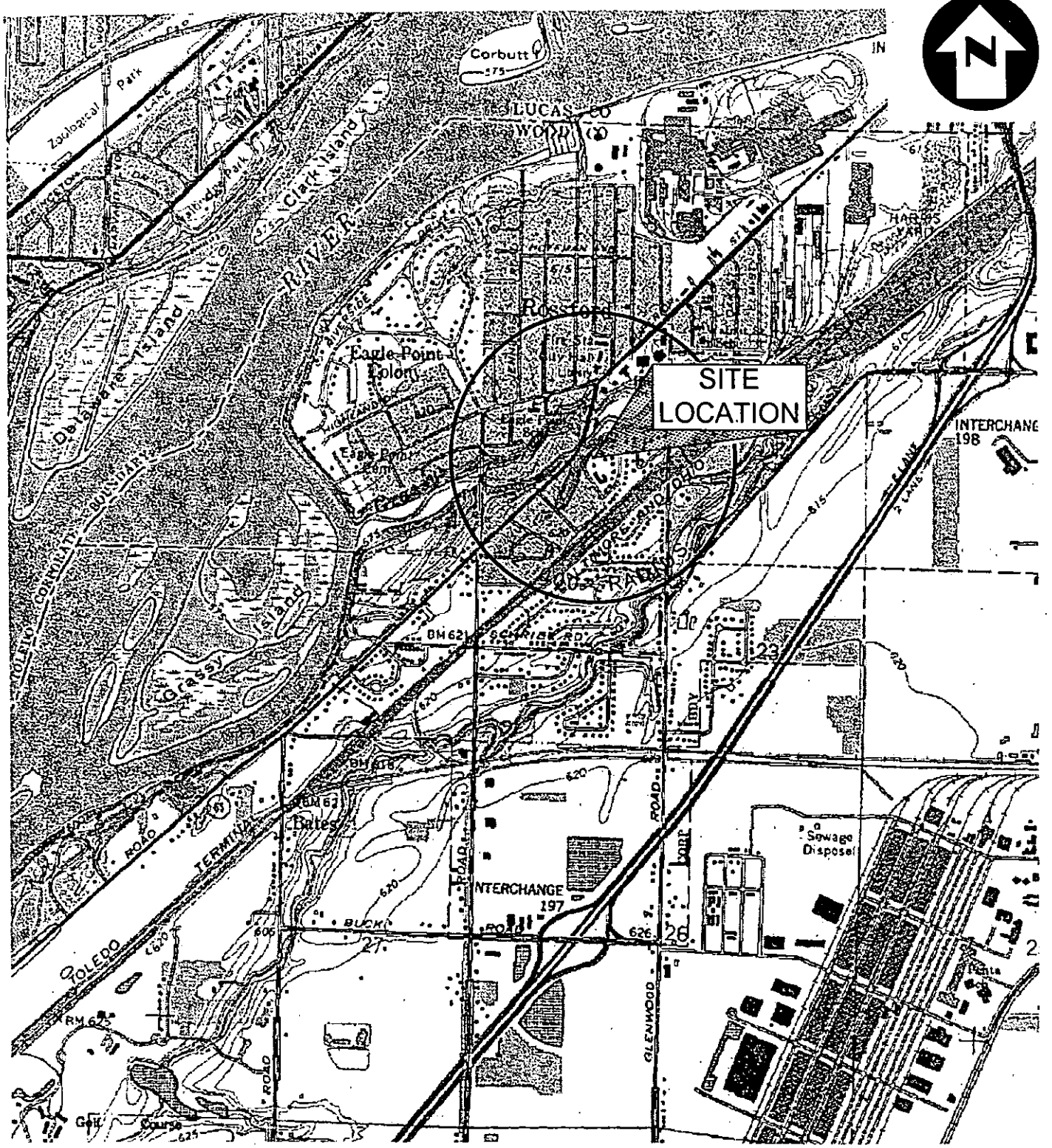
Media	Maximum Site		Ground Water	Ground Water to Indoor Air				Maximum Site		Soil	Soil				Soil				Soil
Pathway	Ground Water Concentration	Location	Ingestion [1] *OAC 7-9-13: (I)(3)(d)(i)*	Volatilization *OAC 1301: 7-9-13 ((I)(3)(d)(v)(b)*				Soil Concentration	Location	Direct Contact [1] *OAC 7-9-13: (I)(3)(d)(ii)*	Leaching to Drinking Ground Water *OAC 7-9-13: (I)(3)(g)(b)*				Leaching to Non-Drinking Ground Water *OAC 7-9-13: (I)(3)(iii)(b)*				Volatilization to Indoor Air *OAC 7-9-13: (I)(3)(v)(b)*
Units	(mg/L)		(mg/L)	(mg/L)				(mg/Kg)		(mg/Kg)	(mg/Kg)				(mg/Kg)				(mg/Kg)
Avg. Depth to Ground Water (feet bgs):				<15 ft	15-30 ft	31-50 ft	> 50 ft				<15 ft	15-30 ft	31-50 ft	> 50 ft	<15 ft	15-30 ft	31-50 ft	> 50 ft	
VOLATILES																			
benzene	*3.1*	MW-4	0.005	3.99	3.99	4.06	4.16	*1.7*	L-1	8.2	0.240	0.240	0.270	0.300	117	118	118	120	0.950
toluene	0.110	MW-4	1.00	--	--	--	--	19	L-1	520	112	112	--	--	--	--	--	--	--
ethylbenzene	*2.1*	MW-4	0.700	--	--	--	--	11	MW-5(9-11)	230	131	131	--	--	--	--	--	--	--
total xylenes	9.630	MW-4	10.0	--	--	--	--	84	MW-5(9-11)	1500	--	--	--	--	--	--	--	--	--
ADDITIVES																			
MTBE	2.6	MW-4	0.040	--	--	--	--	0.46	MW-5	130	0.890	0.890	1.000	1.190	--	--	--	--	--
PAH																			
benzo(a)anthracene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
benzo(a)pyrene	--	--	0.0002	--	--	--	--	--	--	0.550	--	--	--	--	--	--	--	--	--
benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
benzo(k)fluroanthene	--	--	--	--	--	--	--	--	--	55.0	--	--	--	--	--	--	--	--	--
chrysene	--	--	--	--	--	--	--	--	--	550	--	--	--	--	--	--	--	--	--
dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	--	0.550	--	--	--	--	--	--	--	--	--
indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	5.50	--	--	--	--	--	--	--	--	--
napthalene	--	--	0.570	--	--	--	--	--	--	1800	--	--	--	--	--	--	--	--	--
CHLORINATED VOCs [2]																			
carbon tetrachloride	--	--						--	--										
dichloroethane (1,1 -)	--	--						--	--										
dichlorehylene (1,1 -)	--	--						--	--										
tetrachoroethene (PCE)	--	--						--	--										
trichloroethane (1,1,1 -)	--	--						--	--										
trichloroethylene (TCE)	--	--						--	--										
vinyl chloride	--	--						--	--										
Pathway Complete?			Yes	--	No	--	--			No	--	Yes	--	--	--	--	--	--	Yes

Analytical Group(s): *1*
Current property use: *Speedway facility*
SSA owned property (yes/no)?: *Yes*
Number of on-site monitoring wells: *6*
Number of off-site monitoring wells: *0*

Qtrs. existing gw data?: *1*
3rd party claims?: *Unknown*
list on-site wells: *MW-1 through MW-6*
list off-site wells: *NA*

On-site Potable Water Well (yes/no): *no*
Number of Private Potable Wells within 2,000 feet: *2*
Number of Public Water Sources within 2,000 feet: *0*
Number of Surface Water Bodies within 300 feet: *1*

Notes: [1] Standards apply regardless of soil type.
[2] Action levels for Chlorinated VOCs can be developed during a Tier II evaluation.
"--" Indicates that the particular chemical of concern is not applicable to this particular pathway
"NA" indicates that no data for that parameter are available
Analytical data in bold indicates that the Tier I level was exceeded for one or more pathways



SPEEDWAY SUPERAMERICA LLC

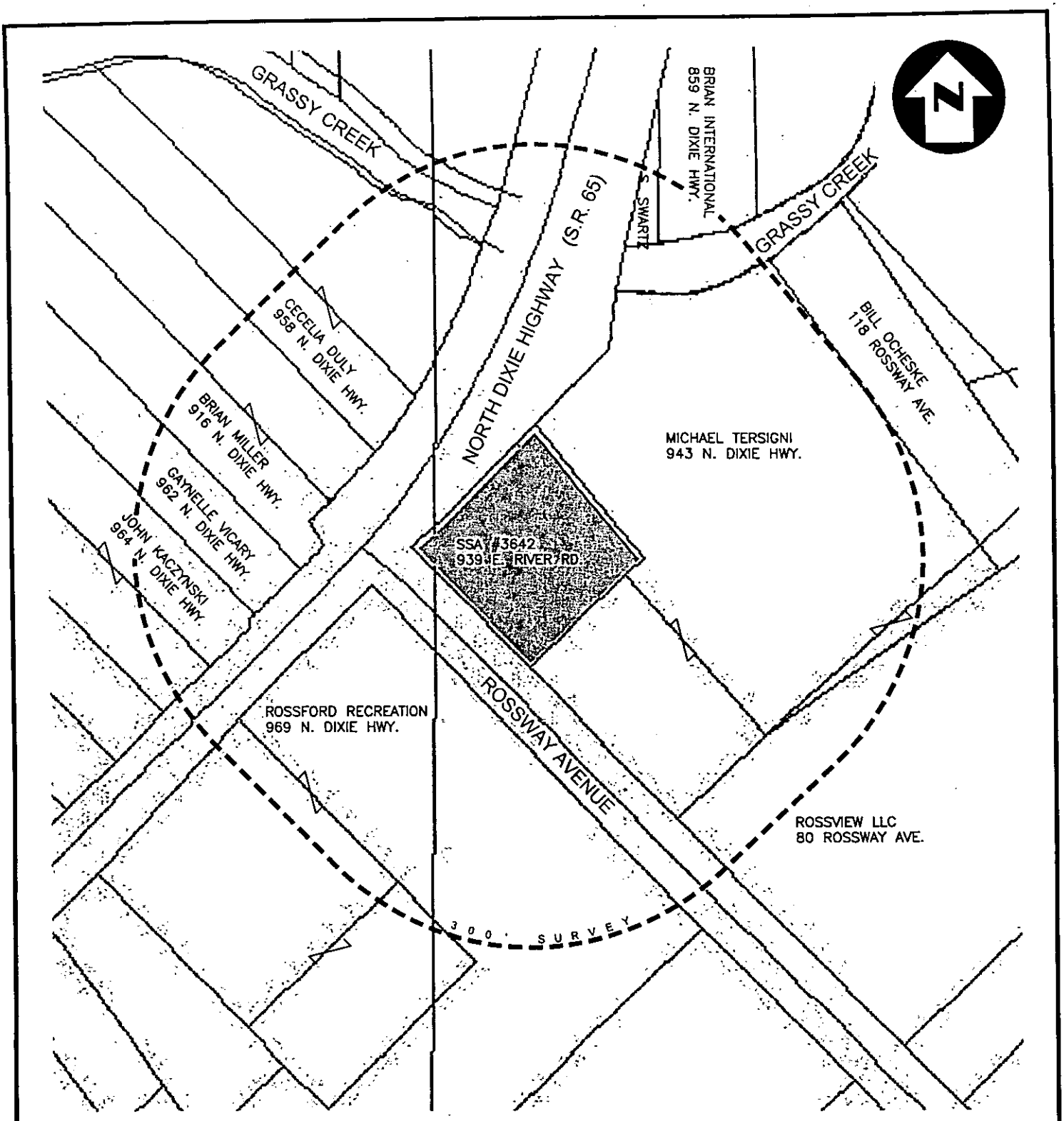
FIGURE 1

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SITE LOCATION MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

\\CLEFS01\PROJECTS\SSA...32903SLM.DWG 5/13/02



150 75 0 150

SCALE IN FEET

OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

\\CLEFS01\P:\SSA...41479APM.DWG 5/10/02

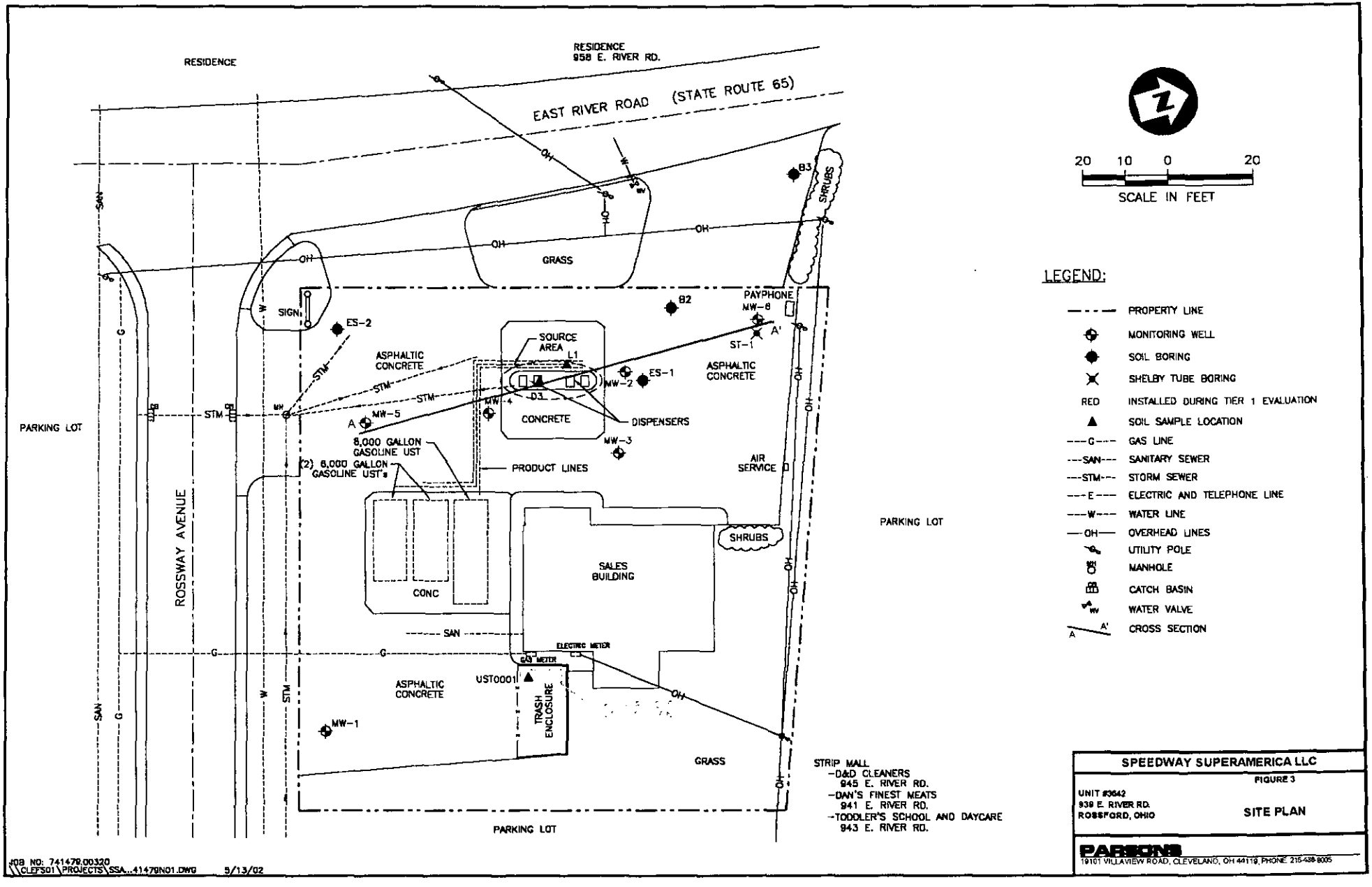
SPEEDWAY SUPERAMERICA LLC

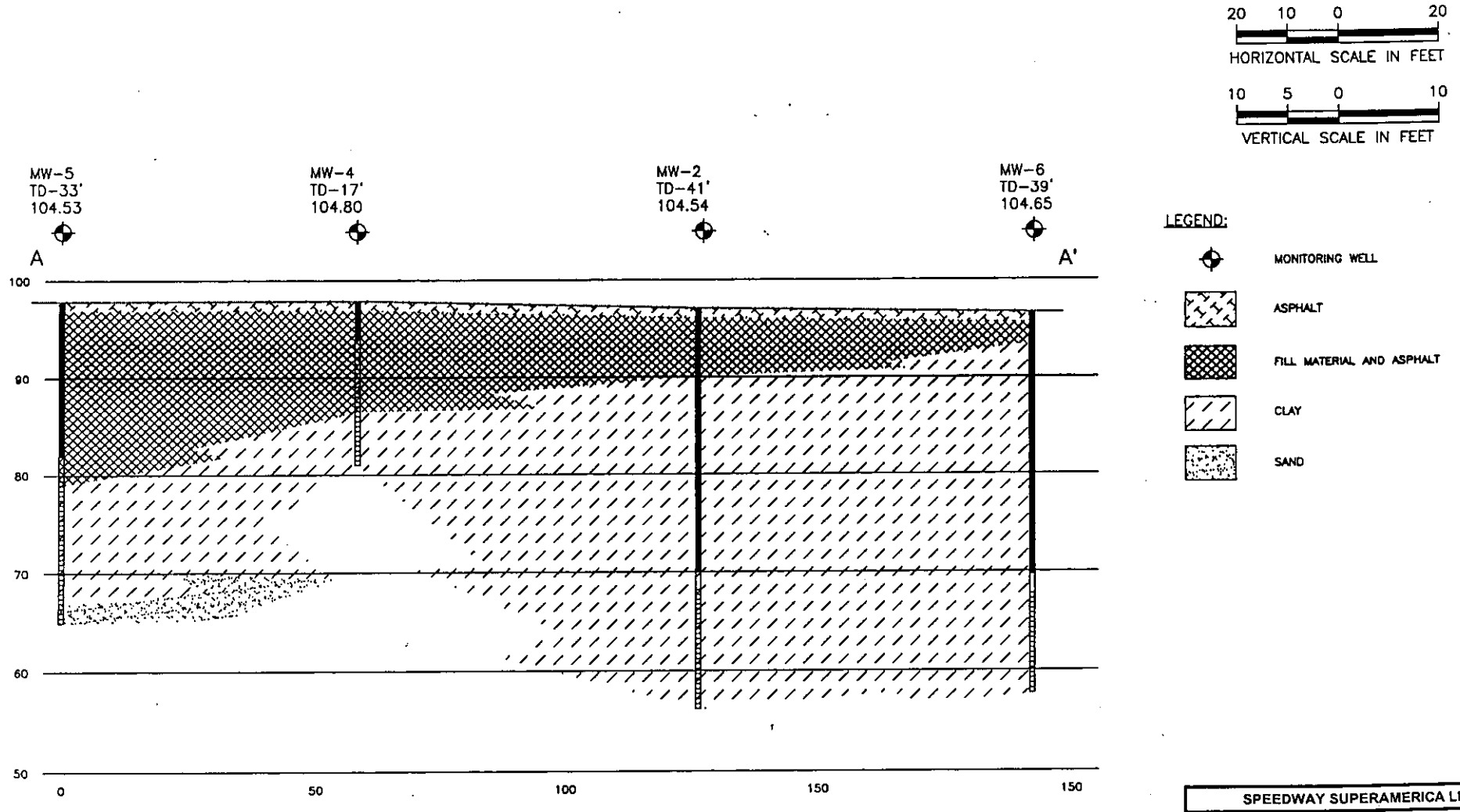
FIGURE 2

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

SURROUNDING PROPERTIES MAP

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005


RESIDENCE
RESIDENCE
958 E. RIVER RD.
EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
PARKING LOT
PARKING LOT
PARKING LOT
GRASS
GRASS
SHRUBS
SHRUBS
SIGN
ES-2
B2
B3
PAYPHONE
MW-6
ST-1
A'
SOURCE AREA
L1
ASPHALTIC CONCRETE
ASPHALTIC CONCRETE
ASPHALTIC CONCRETE
ES-1
MW-2
D3
MW-4
MW-5
A
CONCRETE
DISPENSERS
MW-3
8,000 GALLON GASOLINE UST
(2) 8,000 GALLON GASOLINE UST's
PRODUCT LINES
AIR SERVICE
CONC
SALES BUILDING
ELECTRIC METER
GAS METER
UST0001
TRASH ENCLOSURE
MW-1
STRIP MALL
-D&D CLEANERS
945 E. RIVER RD.
-DAN'S FINEST MEATS
941 E. RIVER RD.
-TODDLER'S SCHOOL AND DAYCARE
943 E. RIVER RD.
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
SOIL BORING
SHELBY TUBE BORING
RED INSTALLED DURING TIER 1 EVALUATION
SOIL SAMPLE LOCATION
GAS LINE
SANITARY SEWER
STORM SEWER
ELECTRIC AND TELEPHONE LINE
WATER LINE
OVERHEAD LINES
UTILITY POLE
MANHOLE
CATCH BASIN
WATER VALVE
CROSS SECTION
SPEEDWAY SUPERAMERICA LLC
FIGURE 3
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO
SITE PLAN
PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-438-6005
JOB NO: 741479.00320
\\CLEFS01\PROJECTS\SSA...41479N01.DWG 5/13/02



SPEEDWAY SUPERAMERICA LLC

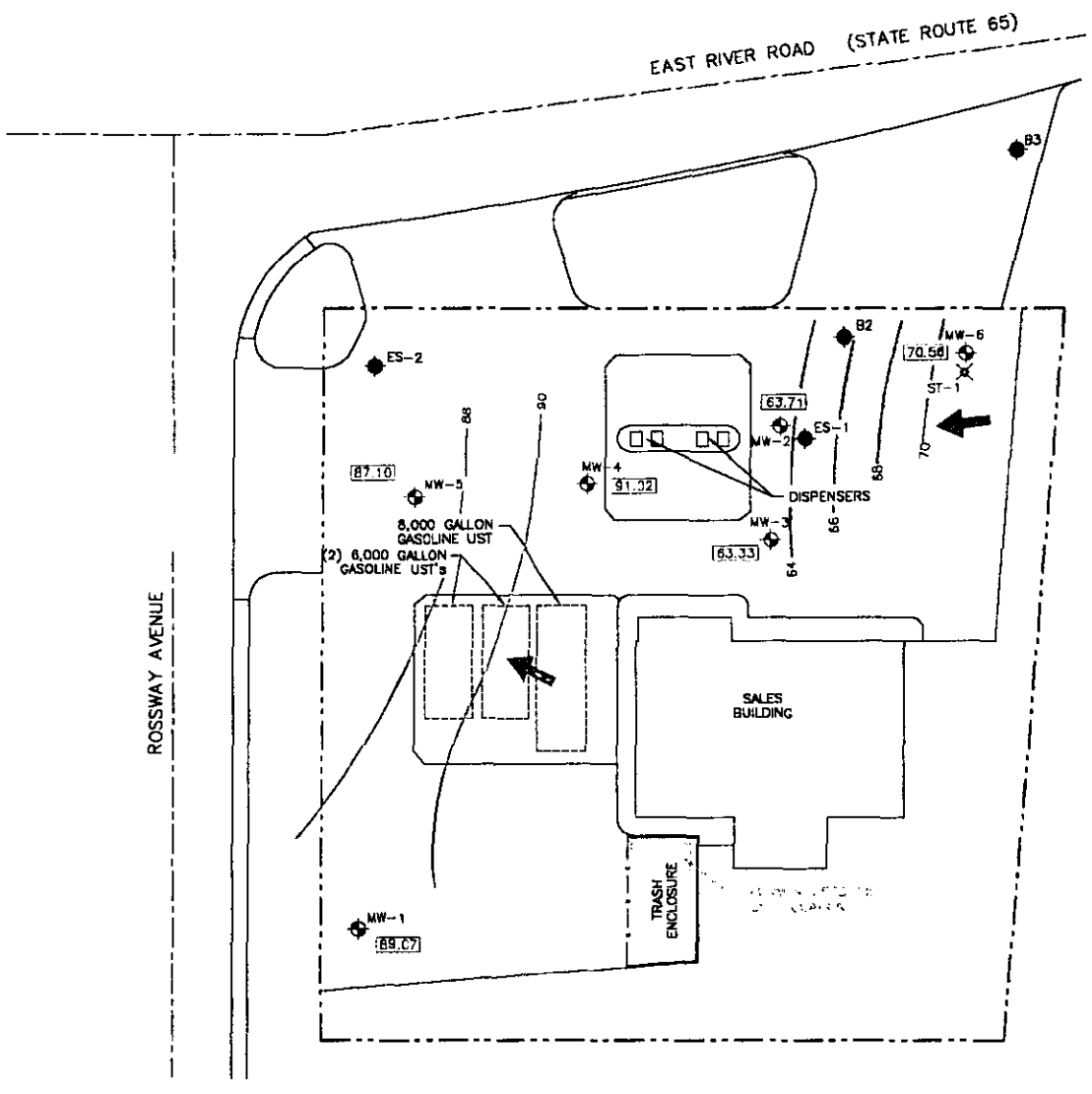
FIGURE 4

UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

CROSS SECTION

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE: 216-486-9005

JOB NO: 741479.00320
\\CLEFS01\PROJECTS\SSA...41479N01.DWG 5/13/02



N

20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- RED — INSTALLED DURING TIER 1 EVALUATION
- 92.69 — RELATIVE GROUNDWATER ELEVATION (FEET)
- 70 — EQUIPOTENTIAL CONTOUR LINE (2 FOOT CONTOUR INTERVAL)
- GROUNDWATER FLOW DIRECTION
- 92.69 — RELATIVE GROUNDWATER ELEVATION (FEET)
- 88 — EQUIPOTENTIAL CONTOUR LINE (2 FOOT CONTOUR INTERVAL)
- GROUNDWATER FLOW DIRECTION

JOB NO: 741479.00320
\\CLEFS01\PROJECTS\SSA...41479N01.DWG 5/13/02

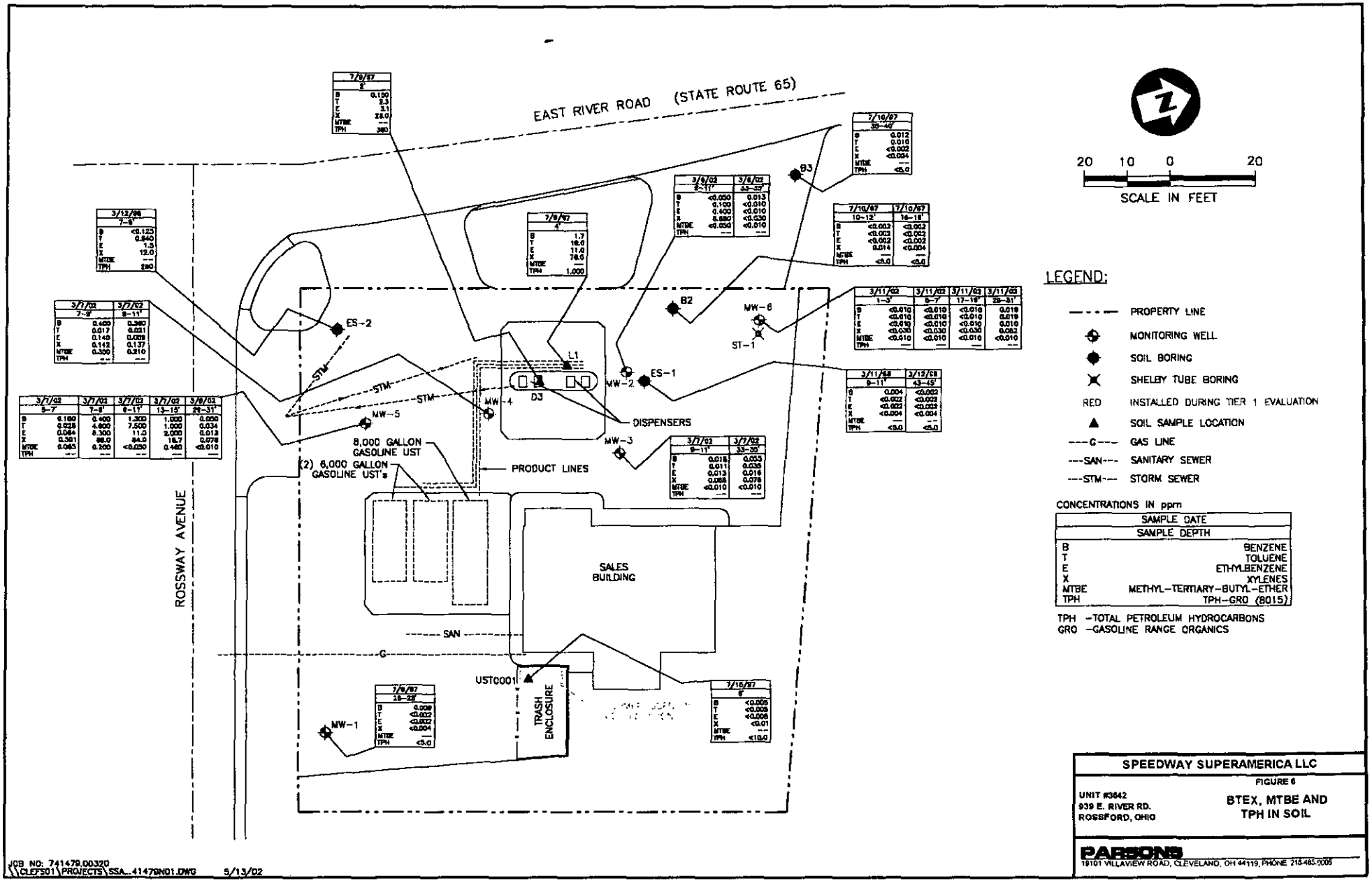
SPEEDWAY SUPERAMERICA LLC

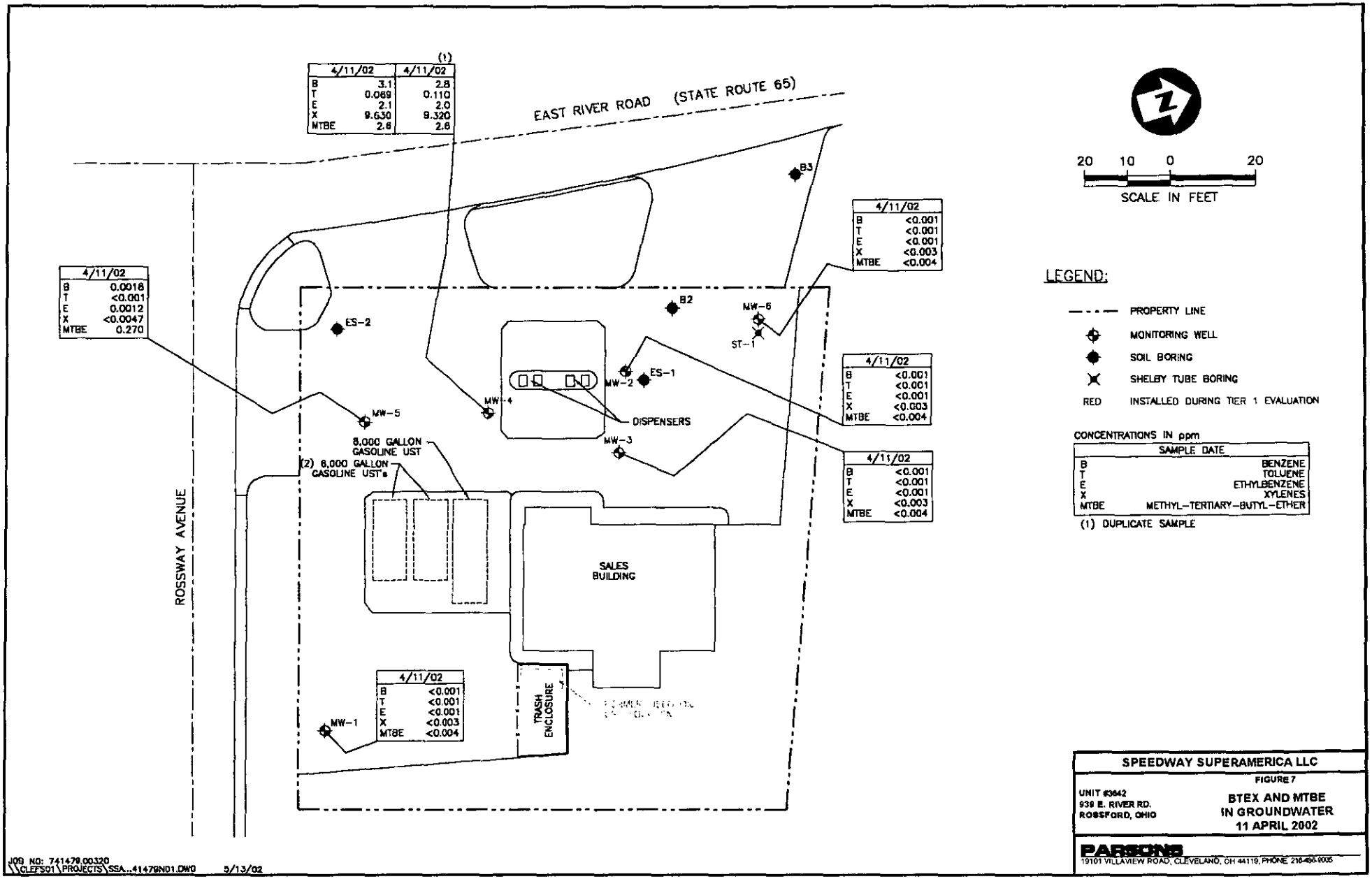
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO

FIGURE 5

POTENTIOMETRIC SURFACE MAP
11 APRIL 2002

PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216-496-9005


EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
ES-2
ES-1
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
ST-1
B2
B3
D3
L1
STM
STM
STM
DISPENSERS
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE UST's
PRODUCT LINES
SALES BUILDING
SAN
G
UST0001
TRASH ENCLOSURE
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
SOIL BORING
SHELBY TUBE BORING
RED INSTALLED DURING TIER 1 EVALUATION
SOIL SAMPLE LOCATION
---G--- GAS LINE
---SAN--- SANITARY SEWER
---STM--- STORM SEWER
CONCENTRATIONS IN ppm
SAMPLE DATE
SAMPLE DEPTH
B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
MTBE METHYL-TERTIARY-BUTYL-ETHER
TPH TPH--GRO (8015)
TPH -TOTAL PETROLEUM HYDROCARBONS
GRO -GASOLINE RANGE ORGANICS
SPEEDWAY SUPERAMERICA LLC
FIGURE 6
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO
BTEX, MTBE AND TPH IN SOIL
PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216.485-0005
JOB NO: 741479.00320
\\CLEFS01\PROJECTS\SSA...41479N01.DWG 5/13/02


EAST RIVER ROAD (STATE ROUTE 65)
ROSSWAY AVENUE
(1)
4/11/02 | 4/11/02
B 3.1 | 2.8
T 0.069 | 0.110
E 2.1 | 2.0
X 9.630 | 9.320
MTBE 2.6 | 2.6
4/11/02
B 0.0018
T <0.001
E 0.0012
X <0.0047
MTBE 0.270
4/11/02
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
4/11/02
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
4/11/02
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
4/11/02
B <0.001
T <0.001
E <0.001
X <0.003
MTBE <0.004
ES-2
ES-1
B2
B3
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
ST-1
DISPENSERS
8,000 GALLON GASOLINE UST
(2) 6,000 GALLON GASOLINE UST's
SALES BUILDING
TRASH ENCLOSURE
20 10 0 20
SCALE IN FEET
LEGEND:
PROPERTY LINE
MONITORING WELL
SOIL BORING
SHELBY TUBE BORING
RED INSTALLED DURING TIER 1 EVALUATION
CONCENTRATIONS IN ppm
SAMPLE DATE
B BENZENE
T TOLUENE
E ETHYLBENZENE
X XYLENES
MTBE METHYL-TERTIARY-BUTYL-ETHER
(1) DUPLICATE SAMPLE
SPEEDWAY SUPERAMERICA LLC
FIGURE 7
UNIT #3642
939 E. RIVER RD.
ROSSFORD, OHIO
BTEX AND MTBE IN GROUNDWATER
11 APRIL 2002
PARSONS
19101 VILLAVIEW ROAD, CLEVELAND, OH 44119, PHONE 216-496-9005
JOB NO: 741479.00320
\\CLEFS01\PROJECTS\SSA...41479N01.DWG 5/13/02

APPENDIX A

TIER I EVALUATION NOTIFICATION CHECKLIST
AND
DRINKING WATER DETERMINATION CHECKLIST

Tier Evaluation Notification Checklist (page 1 of 1)

Submit to BUSTR within 180 days of a confirmed release.

Contact Person: Brian Epperson
Phone Number: 937-863-6514
Facility Name: SSA Unit #3642
Facility Address: 939 E. River Road
Rossford, Ohio
County: Wood County
Facility Number: 87000087-N00004
Site Longitude/Latitude: Lat 41°36'10" / Long 83°33'56"

Indicate page number for each item below.

p. 1 & 7 Tier 1 decisions.

Chemicals of Concern (COC) Determination:

p. 2 Analytical Group 1 (i.e., gasoline, aviation gasoline);
NA Analytical Group 2 (i.e., diesel, kerosene, stoddard solvent, jet fuel);
NA Analytical Group 3 (i.e., used oil, new oil, unknown).

- Depth to ground water (in feet):

<15 p. 3 15-30 30-50 >50.

Soil Type:

NA Sand/gravel;
p. 7 Silty/clayey sands;
NA Clay/silt.

Action Level Category Determination:

p. 7 Drinking water;
NA Non-drinking water;
NA Not ground water.

Additional Required Information:

App D Laboratory data;
App C Boring logs/well construction diagrams;
Fig 5 Ground water flow direction;
Fig 3 Site map;
above Site longitude and latitude;
p. 2 Site history;
p. 4 Land use determination:
p. 2 Source area identified;
p. 4-5 Geologic and hydrogeologic characteristics of the site and surrounding area;
NA Immediate response actions;
NA Interim response action (IRA).

Preparer Name Andrew Shrock Parsons Preparer Signature _____ Date 5/23/02

O/O Name Brian Epperson Speedway SuperAmerica O/O Signature _____ Date 5/24/02

GROUND WATER / DRINKING WATER DETERMINATION CHECKLIST (page 1 of 1)

Contact Person: Brian Epperson
Phone Number: 937-863-6514

Facility Name: SSA Unit #3642
Facility Address: 939 E. River Road
Rossford, Ohio
County: Wood

Facility Number: 87000087

Note: During the Tier I Evaluation ground water is assumed to be drinking water unless appropriate documentation is provided.

Enter YES, NO, or NA along with the page number where this information can be located in the associated report.

Ground Water Determination

Yes, p. 4 The saturated zone is capable of yielding at least 1.5 gallons within 8 hours.

NA The in situ hydraulic conductivity is greater than 5.0×10^{-6} centimeters per second.

Note: If the answer to either question is yes then the saturated zone is groundwater. If the yield or hydraulic conductivity are not determined then the saturated zone is considered groundwater.

Drinking Water Evaluation - Current and Potential Future Use

During the Tier 1 Evaluation, groundwater underlying the site will always be considered a drinking water source if any of the following apply:

No, p. 3 The UST site or surrounding area is located within a wellhead protection area.

Yes, p. 3 A drinking water source is identified within the surrounding area, even if the source is completed into a lower saturated zone than the saturated zone being evaluated on the UST site.

Yes, p. 3 A surface water body is located within 300 feet of the UST site.

No, p. 3 The UST site and surrounding area is located in a "sensitive area" per OAC 1301:7-9-9.

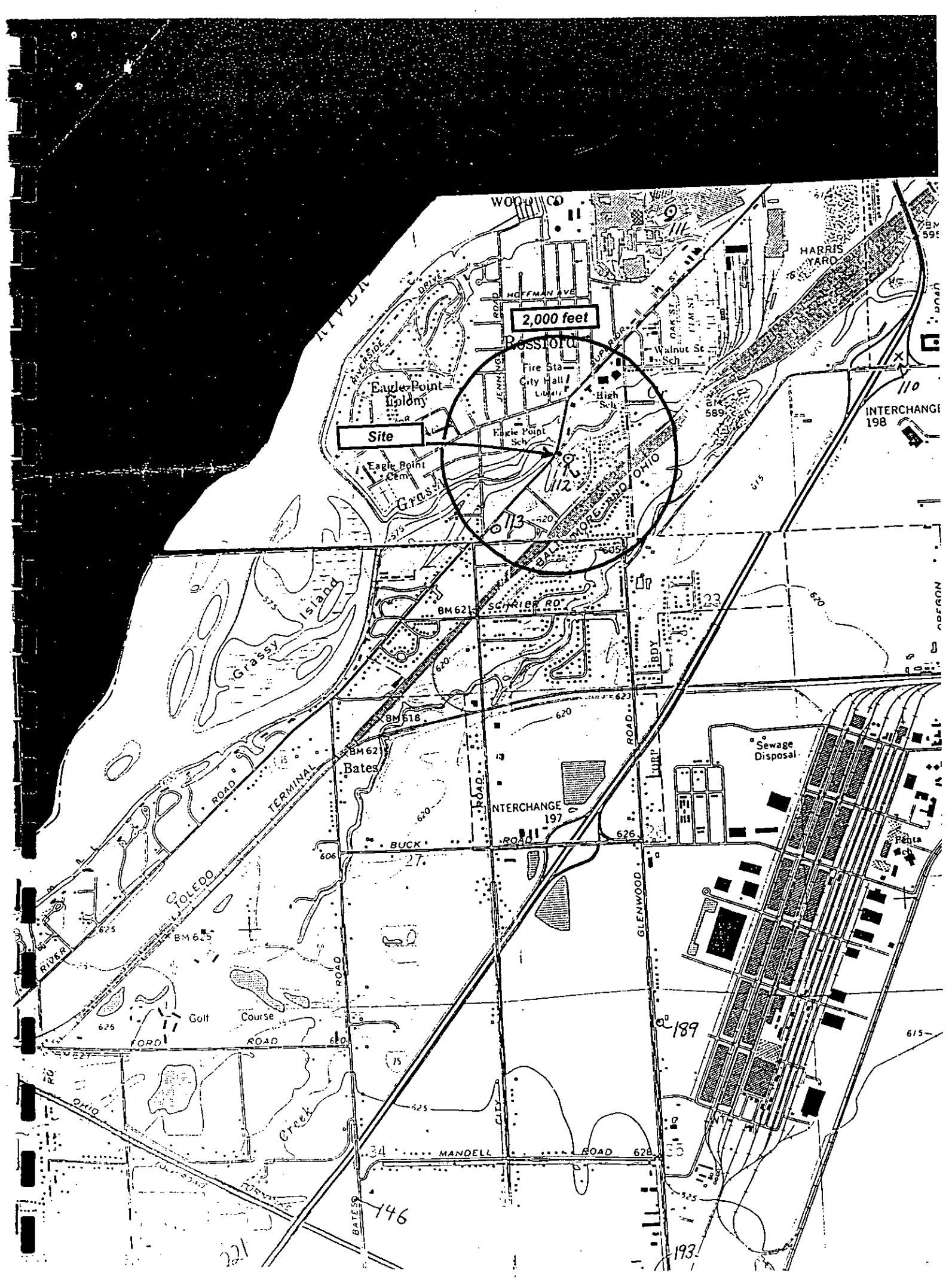
No, p. 3 The UST site or surrounding area overlays a sole-source aquifer, as listed by USEPA.

_____ Groundwater yield at the site is at or above three-gallons per minute, unless one of the following exists:

- Yes, p. 3 Greater than 90% of the properties in the surrounding area are tied into a municipal water system.
- _____ An ordinance requires a mandatory tie-in to a municipal water system for all properties in the surrounding area.
- _____ An ordinance prohibits the installation of potable water wells at all properties in the surrounding area.

APPENDIX B

ODNR POTABLE WATER WELL RECORDS, SURROUNDING PROPERTY WELL SURVEY, ENDORSED WELLHEAD PROTECTION AREA MAP, URBAN SETTING DESIGNATIONS, AND STATE OF OHIO SOLE SOURCE AQUIFERS MAP


2,000 feet
Site
Rossford
Eagle Point Colony
Eagle Point Cem
Eagle Point Sch
Fire Sta
City Hall
High Sch
Walnut St Sch
HARRIS YARD
INTERCHANGE 198
Grassy Island
SCHRIER RD
BM 621
BM 618
Bates
INTERCHANGE 197
Sewage Disposal
TERMINAL ROAD
TOLEDO
BUCK ROAD
GLENWOOD
BM 625
Golf Course
FORD ROAD
Ohio Creek
MANDELL ROAD
BATES
CITY
BALTIMORE AND OHIO
HOFFMAN AVE
RIVERSIDE DRIVE
OAK ST
ELM ST
WOOD CO
110
111
112
113
146
189
193

ORIGINAL

[redacted] LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No. 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohi

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4¼ Length of casing 81' 4"
Type of screen none Length of screen
Type of pump 1/2 H.P. Sub
Capacity of pump 15 G.P.M.
Depth of pump setting 120 ft.
Date of completion 11/30/1967

BAILING OR PUMPING TEST

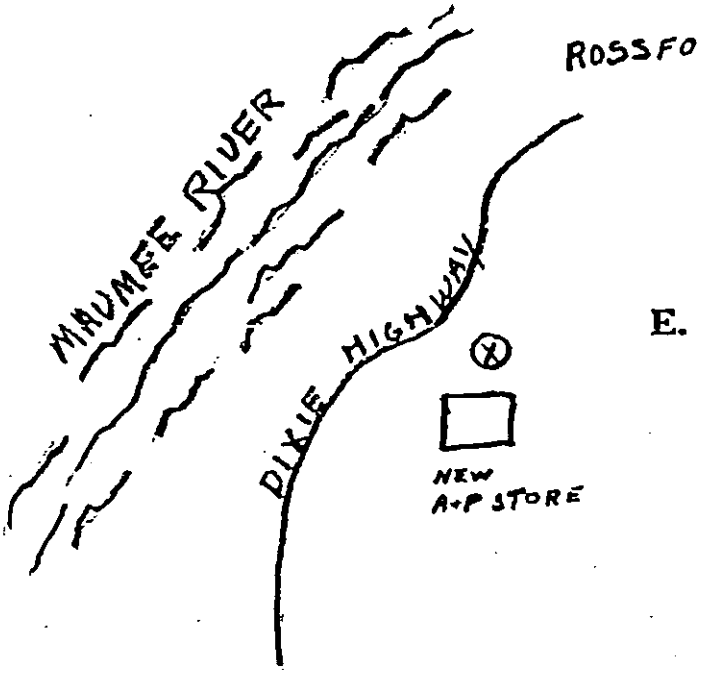
Pumping Rate 20 G.P.M. Duration of test 3 hrs.
Drawdown 10 ft. Date 11/21/1967
Static level-depth to water 75 ft.
Quality (clear, cloudy, taste, odor) clear
Pump installed by Larson Drilling & Mach. Inc

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft
Soft Blue Clay	35 ft.	65 ft
Hard Pan	65 ft.	70 ft
Soft Blue Clay	70 ft.	77 ft
Broken Brown Lime	77 ft.	80 ft
Hard Brown Lime	80 ft.	102 ft
Hard Gray Lime	102 ft.	115 ft
Light Brown Lime	115 ft.	130 ft
Tan Brown Lime	130 ft.	161 ft
Hard Brown Lime	161 ft.	166 ft
Blueish Gray Lime Hard Traverse	166 ft.	191 ft
Light Brown Lime	191 ft.	201 ft

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Larson Drilling & Mach. Inc. Date 4/16/1968
Address 211 W. Sophia St. Maumee, Ohio Signed [signature]

*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

WELL LOG AND DRILLING REPORT

EV-5-2723

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 238621

County Wood Township Rossford Section of Township Lot #19

Owner Lewis Danford Address 1125 Elm Tree Rd. Rossford, Ohio

Location of property Lewis St, Rossford, Ohio

CONSTRUCTION DETAILS

Casing diameter 4" I.D. Length of casing 70'

Type of screen ..... Length of screen .....

Type of pump 3/4 H.P. 2 stage Jet

Capacity of pump 170 G.P.H. at 120 ft.

Depth of pump setting 150 ft

Date of completion Nov. 27 - 1959

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test 2 hrs.

Drawdown 85 ft. Date Nov. 27, 1959

Developed capacity 480 G.P.H. at 150 ft.

Static level—depth to water 65 ft.

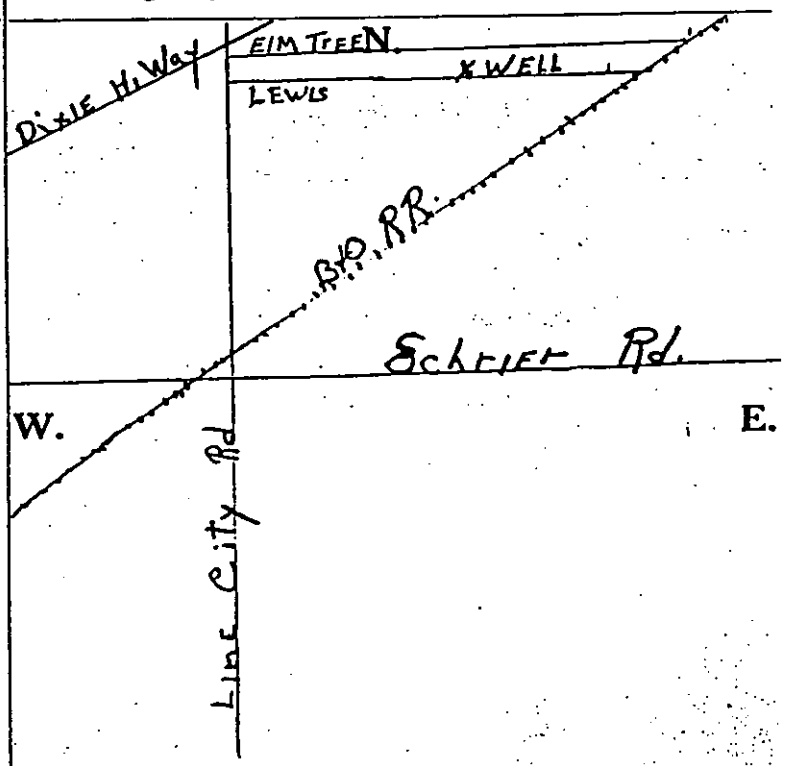
Pump installed by Wendell Bihn

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Clay	0	65
LIME STONE	65	176

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Bihn's Well Drilling Date Nov. 27 1959

Address Walbridge Ohio Signed Wendell Bihn

113

Netscape | Mail | Maps | IM | Search | Shopping | Netscape Presents:

Online water well search

MAPQUEST

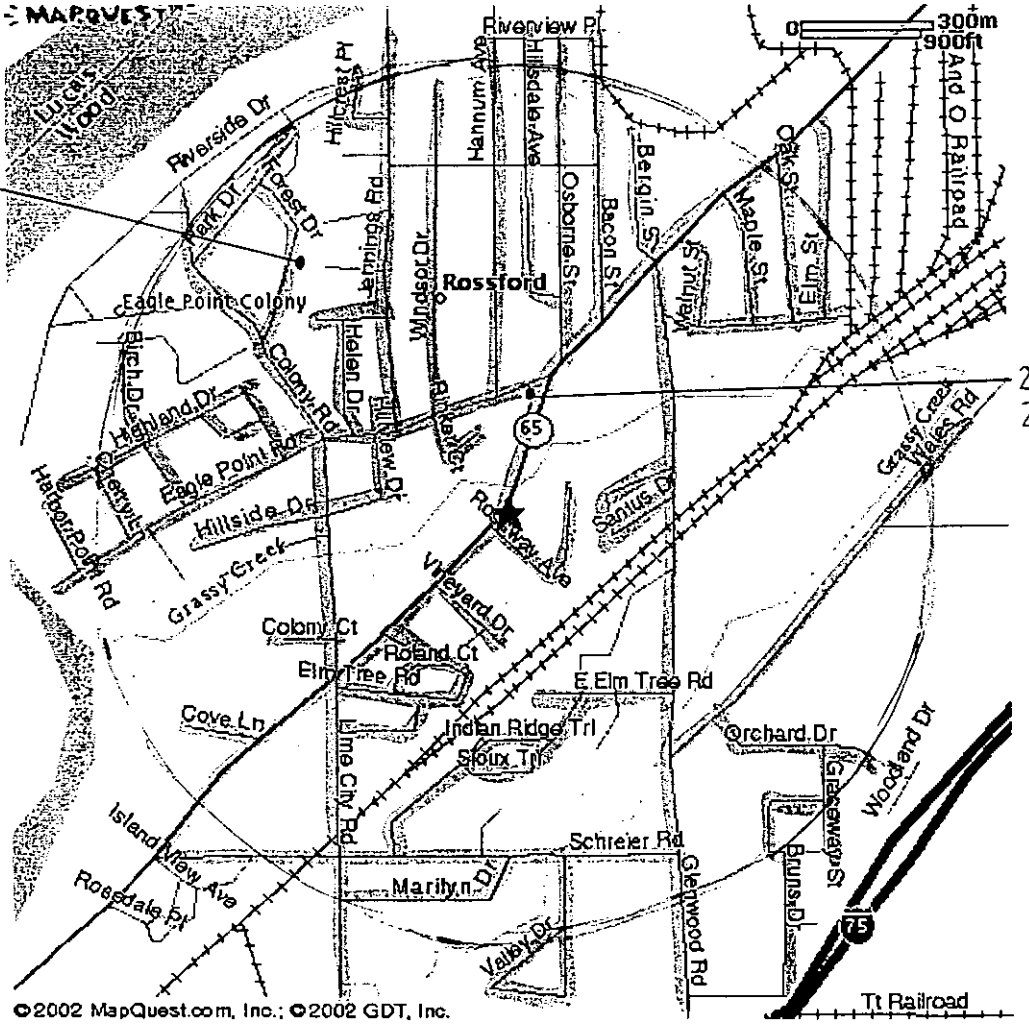
939 Dixie Hwy
Rossford, OH
43460-1332, US

SEND TO PRINTER

Back

18 Forest

27207 Dixie (g.v.)
26520 " (g.v.)



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NAVTECH ON BOARD

MAPQUEST™
where to go
how to get there!

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OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

26980 65, MIKE SERVOSS, 876393

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

21378 DIXIE HIGHWAY, TIM MILLER, 664232
23960 DIXIE HIGHWAY, JOHN FOX, 788540
24153 DIXIE HIGHWAY, RONALD EUTON, 765063
24525 DIXIE HIGHWAY, CLARENCE RUSSELL, 845500
24750 DIXIE HIGHWAY, MARVIN ADAMS, 622744
25303 DIXIE HIGHWAY, IMOGENE BORNES, 793093
26520 DIXIE HIGHWAY, KELLY'S DELI, 684136
27207 DIXIE HIGHWAY, KING EQUIPMENT, 611920
DIXIE HIGHWAY, CHAS LOBER, 26403
DIXIE HIGHWAY, MELVIN GALLART, 71173
DIXIE HIGHWAY, CARL ECKEL, 79242
DIXIE HIGHWAY, ROBERT MARTIN, 79835
DIXIE HIGHWAY, EARL HILTNER, 92299
DIXIE HIGHWAY, GLEN BOOS, 97032
DIXIE HIGHWAY, MEAD, 97033
DIXIE HIGHWAY, LEONARD HULL, 97034
DIXIE HIGHWAY, JIM LEONALD, 97035
DIXIE HIGHWAY, SCRERAME, 97036
DIXIE HIGHWAY, CRISS LEYDORP, 97038
DIXIE HIGHWAY, SOUTH DIXIE SUPPLY, 97054
DIXIE HIGHWAY, ROBERT HENSCHEN, 124650
DIXIE HIGHWAY, BEN PARRISH, 126062
DIXIE HIGHWAY, VICTOR PYERES, 127894
DIXIE HIGHWAY, FRED EKEL, 173546
DIXIE HIGHWAY, ROBERT HALBERT, 206401
DIXIE HIGHWAY, MERLIN MOSER, 206433
DIXIE HIGHWAY, CATIPILLAR TRACTOR C, 209098
DIXIE HIGHWAY, OCLEY MCMULLEN, 212865
DIXIE HIGHWAY, BLUE BIRD HOMES, 273284
DIXIE HIGHWAY, W SMITH, 334670
DIXIE HIGHWAY, JOHN MEIER, 342921
DIXIE HIGHWAY, WE SMITH & SONS, 359061
DIXIE HIGHWAY, ROBERT DESTATE, 362525
DIXIE HIGHWAY, FRED BOSTLEMAN CO., 375562
DIXIE HIGHWAY, JOHN CHRISTOFF, 393029
DIXIE HIGHWAY, MAXWELL & ASSOCIATES, 429980
DIXIE HIGHWAY, DON DUHAMMEL, 592828
DIXIE HIGHWAY, CHRIS HAAS, 770029
DIXIE HIGHWAY, JOHN CHRISTOFF, 9987035

Map Quest and Maps On Us Can't get Lorain Ohio addresses

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

LIME CITY/REITZ, MARTIN HAAS, 129800

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

LIME CITY/SCHROEDER, FRED MORLOCK, 547348

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

MARILYN, JAMES MARTIN, 65620
MARILYN, ERVIN RHODES, 65621
MARILYN, MAX MITSCHING, 78401
MARILYN, FRED AGEE, 78415

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

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Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

SCHREIER, WM COMPTON, 26426
SCHREIER, RALPH BARKER, 99562
SCHREIER, ROY INMAN, 164485

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

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Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

GLENWOOD/SCHREIER, ARTHUR SARVER, 26415
GLENWOOD/SCHREIER, JAMES SARVER, 78438

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

ELM TREE, FRANK PASTOREK, 285383

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

HELEN, DAVID RUSSEL, 238632

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

19312 GLENWOOD, ROBERT BUSH, 506163
26072 GLENWOOD, RW SERVICES INC., 724269
26250 GLENWOOD, DUKE HAAS, 797316
26408 GLENWOOD, NUTRI SOIL SYSTEMS, 936501
26624 GLENWOOD, FRED WYCKOFF, 592818
26670 GLENWOOD, SANDALWOOD BUSINESS, 902698
26692 GLENWOOD, JAMES BALDWIN, 655249
26692 GLENWOOD, JAMES BALDWIN, 664229
26898 GLENWOOD, MICHAEL VALERINS, 725079
26898 GLENWOOD, DEBRA VALERIUS, 879440
26924 GLENWOOD, STEVE KANAAR, 611220
26924 GLENWOOD, SAM MEYERHOLTZ, 902696
26950 GLENWOOD, MARIETTA SIEFERT, 513055
27200 GLENWOOD, GIBEL ELECTRIC, 557539
27811 GLENWOOD, STEPHEN/BRENDA COX, 702543
GLENWOOD, PHEBE HOAS, 26437
GLENWOOD, LEI SARVER, 78439
GLENWOOD, RICHARD BECK, 79845
GLENWOOD, B MILLS, 139860
GLENWOOD, ROBERT FRANTZ, 164466
GLENWOOD, FOREST SARVER, 195897
GLENWOOD, ROBERT GOEBEL, 195900
GLENWOOD, BENIE HOORELBEKE, 206404
GLENWOOD, CHESTER SCHULTZ, 238605
GLENWOOD, ROBERT SABO, 262464
GLENWOOD, LEON SEHRAMM, 273283
GLENWOOD, CLARENCE HERMAN, 295960
GLENWOOD, ROBERT FORTER, 311552
GLENWOOD, JOSEPH SALOVARIA, 311573
GLENWOOD, WYCKOFF, 320214
GLENWOOD, B & R MILLS, 320221
GLENWOOD, GLEN REITZEL, 331563
GLENWOOD, ARTHUR CLEMENTS, 332875
GLENWOOD, CITY FIRE EQUIPMENT, 396428
GLENWOOD, DYNA LITE CORP, 396435
GLENWOOD, SERVICE SPRING, 433951
GLENWOOD, C.P.H. CREDIT UNION, 487329
GLENWOOD, BRUNS FLORIST&GREENH, 506200
GLENWOOD, CHAS REITZEL, 519918
GLENWOOD, TRI-STATE EXPEDITED, 651108
GLENWOOD, JEFF MALONE, 821986
GLENWOOD, KENNETH HAAS, 848557
GLENWOOD, CECIL FOOTE, 9987115

Maps on file + Map Quest could not locate exact addresses.

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

Back to Division Programs and Services

Search for All Roads within WOOD county

Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

23983 LIME CITY, VERNON WARNS, 788566
25037 LIME CITY, NICHOLAS HAAS, 621975
25221 LIME CITY, RICHARD LEE, 776347
25920 LIME CITY, DOROTHY LEBAY, 725078
26416 LIME CITY, TONY KNIGHT, 743622
26932 LIME CITY, C SAWYER, 621998
27696 LIME CITY, PHINES MACDONALD, 557545
28897 LIME CITY, KEN BYLOW, 421567
29058 LIME CITY, HOMER PAYNE, 632517
29392 LIME CITY, NORMAN BROSSIA, 621967
29461 LIME CITY, ARTHUR BROSSEA, 611234
29901 LIME CITY, NANCY ROGERS, 797155
29901 LIME CITY, NANCY ROGERS, 797156
29921 LIME CITY, JOHN AUSSOR, 800176
262281 LIME CITY, HOWARD CUNNINGHAM, 622000
LIME CITY, BLAIR HRURY, 56797
LIME CITY, CHAS TIMMEY, 56798
LIME CITY, JOHN BURKARD, 79832
LIME CITY, RONALD HENRY, 79847
LIME CITY, LIME CITY HALL, 92268
LIME CITY, CARL SHRAMMER, 104373
LIME CITY, BERNARD CHESTER, 104380
LIME CITY, FRANK HAAS, 120015
LIME CITY, RUSSELL WATSON, 120029
LIME CITY, GLEN HANELY, 122483
LIME CITY, JOHN BAKER, 122492
LIME CITY, LYLE ECKEL, 122494
LIME CITY, JOSEPH KOPP, 122497
LIME CITY, JOE HARRIS, 128852
LIME CITY, VERMON CARSTANSON, 139884
LIME CITY, EARL MCDONALD, 139890
LIME CITY, HUBER BRIMACOMBE, 164451
LIME CITY, CLEMET HUSSAR, 164471
LIME CITY, HENRY SCHMITT, 189731
LIME CITY, LOUIS WHEDE, 195880
LIME CITY, IVAN BOYER, 195895
LIME CITY, PHILIP RUDOLPH, 206424
LIME CITY, LARRY ATTERTON, 228270
LIME CITY, JAMES VETTER, 233815
LIME CITY, E SMITH, 238607
LIME CITY, MELVIN SHANKS, 238633
LIME CITY, D FLEMING, 253083
LIME CITY, SYRIE LAROY, 253092

Maps Drills + Map Quest could not locate exact addresses.

LIME CITY, VERNON WORMS, 253097
LIME CITY, KARL WILLIAMS, 262451
LIME CITY, ZANE CORDELL, 262462
LIME CITY, PERRYSBURG, 262499
LIME CITY, ERNEST HAAS, 285353
LIME CITY, GEORGE WOLFE, 295963
LIME CITY, GEORGE MURRY, 311579
LIME CITY, CLAYTON SNYDER, 320250
LIME CITY, DALE VOLLMAR, 330120
LIME CITY, JOHN ANDRYE, 331552
LIME CITY, OGLE JENKINS, 331560
LIME CITY, RONALD EUTON, 331578
LIME CITY, GLEN HANDY, 331592
LIME CITY, ROBERT ARTZ, 342903
LIME CITY, HOWARD HAAS, 342905
LIME CITY, RALPH ARTZ, 342906
LIME CITY, CYRIL LAROY, 342913
LIME CITY, FLOYD KAZMAIER, 342930
LIME CITY, RICHARD HAHNN, 348404
LIME CITY, CARL KOPP, 364635
LIME CITY, GLEN SCHALLER, 381619
LIME CITY, RON EUTON, 381638
LIME CITY, JOHN UHLER, 396411
LIME CITY, CHAS POWELL, 396413
LIME CITY, JOHN MACKEY, 396445
LIME CITY, RICHARD BECK, 421583
LIME CITY, DESHLER LUMBER CO., 435530
LIME CITY, RICHARD BEARD, 513193
LIME CITY, CECIL ADKINS, 607265
LIME CITY, PERRYSBURG ESTATES, 618167
LIME CITY, PERRYSBERG TWP TRUST, 661238
LIME CITY, JEFF EBERLY, 932653
LIME CITY, LAWRENCE TREMSKY, 9987117
LIME CITY, CHAS SARADIN, 9987137

OHIO DEPARTMENT of NATURAL RESOURCES

Enter Search Term:

Water Well Log
Select A Road

Back to Well Logs and Drilling Reports Main Page

Back to Technical Services Section Main Page

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Search for All Roads within WOOD county

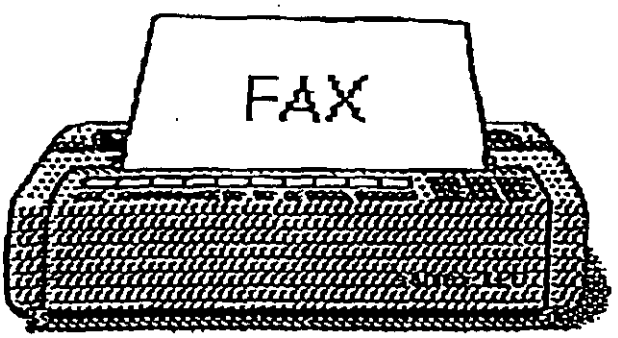
Search for a List of Roads within a Township located in WOOD County

Select a Well Log from the list below.

- Address, Orignal Owners Name, Well Log Number

418 FOREST, CLYDE ROWLEY, 58196

CITY OF TOLEDO



DEPT. OF PUBLIC UTILITIES
Ohio Building
420 Madison Avenue
Suite 100
Toledo, Ohio 43604-1219
(419) 245-1800
FAX (419) 936-7853

DATE: 3/13/02

TO: Suzanne Maeks

FROM: KM/CS

PAGES TO FOLLOW: 6

MESSAGE:

1053

918	Peck St.	919	Sherman St.	1015	Sherman St.	923	Sherman St.
920	Peck St.	915	Sherman St.	922	Baker St.	921	Sherman St.
926	Peck St.	909	Sherman St.	926	Baker St.	929	Baker St.
928	Peck St.	908	Sherman St.	930	Baker St.	1712	Lagrange Rd.
930	Peck St.	910	Sherman St.	1015	Baker St.	909	Baker St.
1817	Lagrange Rd.	912	Sherman St.	1017	Baker St.	911	Baker St.
1815	Lagrange Rd.	914	Sherman St.	1014	Sherman St.	915	Baker St.
1813	Lagrange Rd.	916	Sherman St.	1018	Sherman St.	921	Baker St.
1811	Lagrange Rd.	920	Sherman St.	1013	Sherman St.	925	Baker St.
1805	Lagrange Rd.	922	Sherman St.	1708	Lagrange Rd.	1812	Lagrange Rd.
1801	Lagrange Rd.	928	Sherman St.	1702	Lagrange Rd.	1808	Lagrange Rd.
1707	Lagrange Rd.	930	Sherman St.	1626	Lagrange Rd.	1724	Lagrange Rd.
1701	Lagrange Rd.	1806	Locust St.	1622	Lagrange Rd.	1720	Lagrange Rd.
1617	Lagrange Rd.	1810	Locust St.	1618	Lagrange Rd.	1716	Lagrange Rd.
1816	Lagrange Rd.	1706	Locust St.	925	Sherman St.		

3642

969 E. River Rd.
964 E. River Rd.
962 E. River Rd.
916 E. River Rd.
954 E. River Rd.
943 E. River Rd.
958 E. River Rd.
859 E. River Rd.
118 Rossway Ave.
80 Rossway Ave.

958 E. RIVER RD.

Current Resident: [redacted] Rd. Rossford, Ohio 43460

)ear Resident:

At the request of the Ohio Bureau of Underground Storage Tank Regulations, Parsons is conducting a water well survey in your area. Your cooperation is appreciated.

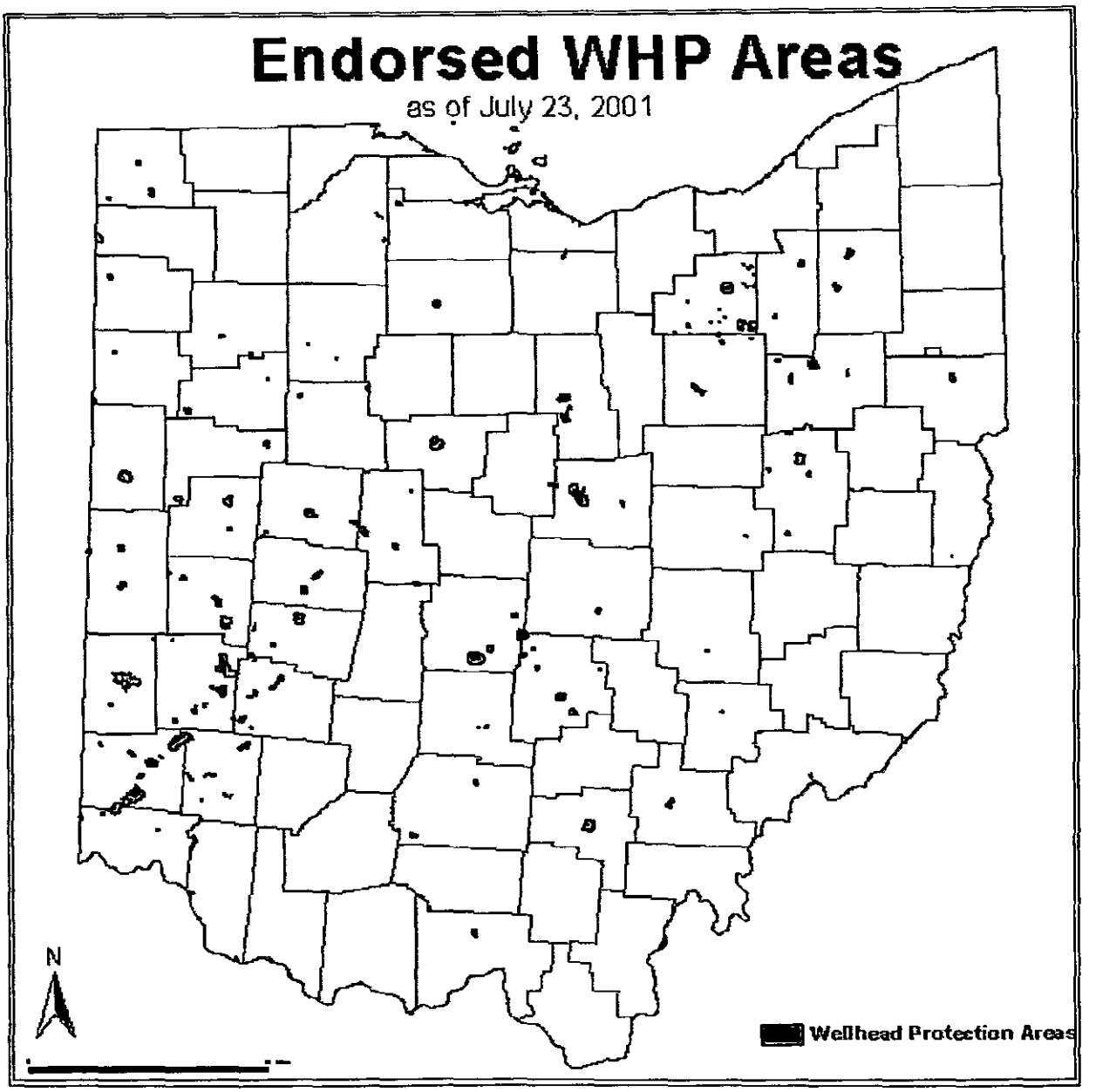
Please check the appropriate response(s) and return the postcard. If no reply is received by 02/26/02, it will be assumed that you do not have a well and are unaware of any wells in your area.

X I do not have, nor has there ever been, a well on my property.
___I had a well on my property; however, it was sealed on _____ (date).
___I have a well on my property; however, it is not in use.
___I have and am currently using a well on my property for _____(drinking, watering the lawn, etc.)
___I know of a well at_____ (address)

If you have any questions, please contact Adam Tucker at (216) 486-9005. Thank you for your cooperation.

PARSONS

5642

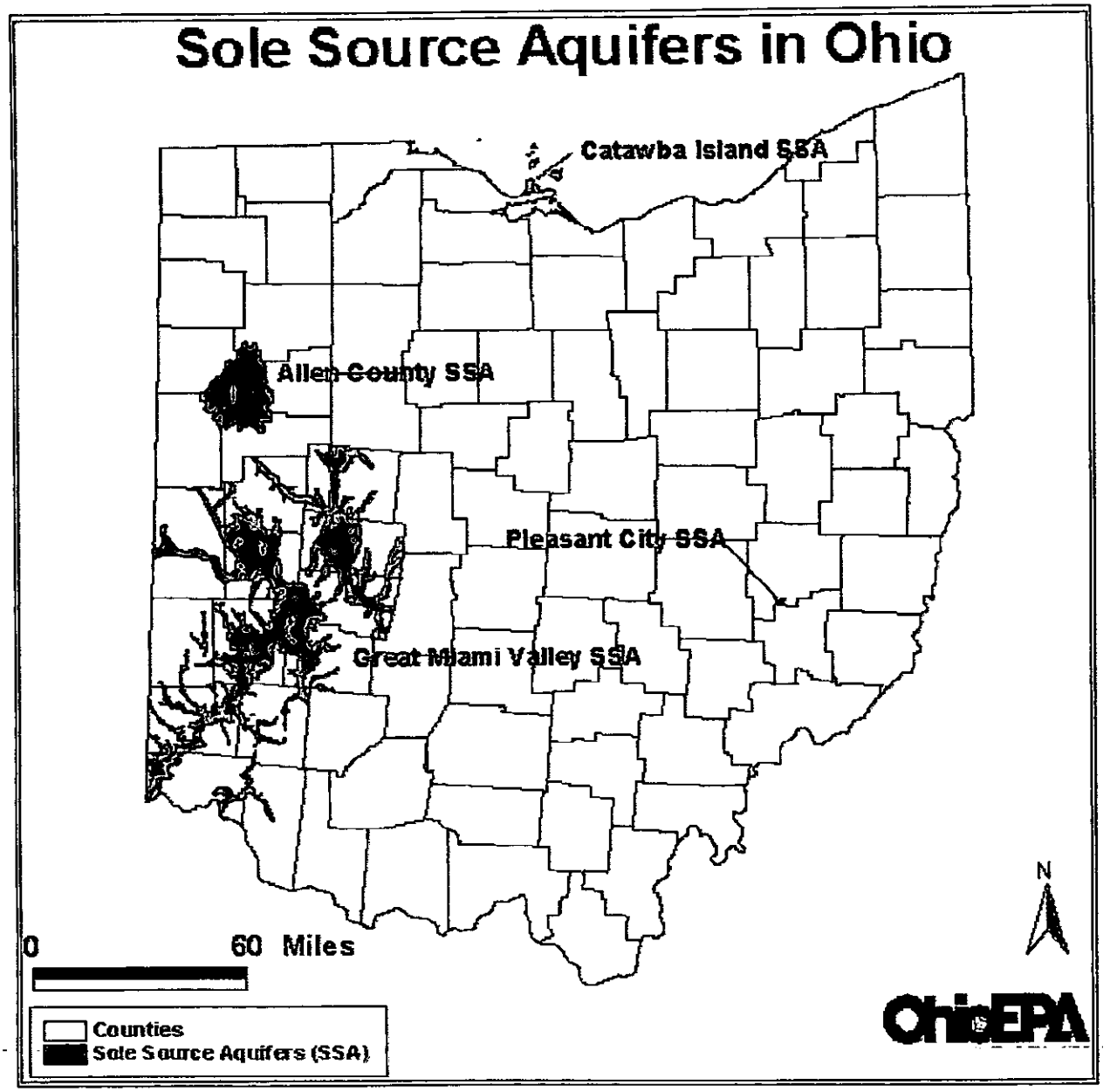

Endorsed WHP Areas
as of July 23, 2001
N
Wellhead Protection Areas

Urban Setting Designations

USD Name	County	OEPA District	City	Status	Date USD Received	Date USD Issued
Akron/Opportunity Park	Summit	NEDO	Akron	Issued	01/23/97	08/11/98
Former Coyne Laundry/Catholic Charities	Cuyahoga	NEDO	Cleveland	Issued	02/25/97	09/17/97
Former Hartman Electrical Site	Richland	NWDO	Mansfield	Issued	01/12/98	09/01/98
Toledo/Oregon Properties USD	Lucas	NWDO	Toledo/Oregon	Issued	01/21/98	09/11/98
Van Leer Containers, Inc.	Cuyahoga	NEDO	Cleveland	Withdrawn	01/29/98	Withdrawn
Former Collinwood Maintenance Facility	Cuyahoga	NEDO	Cleveland	Issued	02/03/98	05/01/98
Miranova Property & Three Sites Cols.	Franklin	CDO	Columbus	Issued	04/06/98	09/24/98
City of Cleveland - Inner West Side Area	Cuyahoga	NEDO	Cleveland	Issued	08/17/98	05/07/99
City of Cleveland - West Area	Cuyahoga	NEDO	Cleveland	Issued	08/17/98	05/07/99
City of Cleveland - Inner East Side Area	Cuyahoga	NEDO	Cleveland	Issued	08/17/98	05/07/99
City of Cleveland - Southeast Area	Cuyahoga	NEDO	Cleveland	Issued	08/17/98	05/07/99
City of Cleveland - Industrial Valley Area	Cuyahoga	NEDO	Cleveland	Issued	08/17/98	05/07/99
City of Cleveland - Northeast Area	Cuyahoga	NEDO	Cleveland	Issued	08/18/98	05/07/99
Church Square Property	Cuyahoga	NEDO	Cleveland	Issued	08/31/98	01/22/99
Riverfront Commons Corporation Pen West	Franklin	CDO	Columbus	Issued	05/03/99	10/26/99
Frank J. Stolitzka						

and Sons, Inc.	Summit	NEDO	Akron	Issued	08/16/99	02/17/00
Liniform Services	Summit	NEDO	Barberton	Issued	06/14/00	11/07/00
West Valley Shopping Plaza	Cuyahoga	NEDO	Berea	Issued	12/27/00	05/23/01
National Gypsum	Trumbull	NEDO	Niles	Pending	04/04/01	
Opportunity Park Area	Summit	NEDO	East Akron	Issued	06/01/01	12/5/01

Back to Voluntary Action Program Webpage


Sole Source Aquifers in Ohio
Catawba Island SSA
Allen County SSA
Pleasant City SSA
Great Miami Valley SSA
0
60 Miles
N
Counties
Sole Source Aquifers (SSA)
OhioEPA

APPENDIX C

BUSTR SOIL CLASSIFICATION FORM,
SOIL BORING LOGS,
AND
ODNR WELL LOG AND DRILLING REPORTS

BUSTR SOIL CLASSIFICATION

Major Divisions			Letter Symbol	Typical Description	BUSTR Class
Coarse Grained Soils More than 50% of Material is Greater than #200 Sieve	Gravel and Gravelly Soils More than 50% of Coarse Fraction Retaining on No. 4 Sieve	Clean Gravels (Little or No Fines)	GW	Well-Graded Gravels, Gravel-Sand Mixtures, Little or No Fines	Sand/ Gravel Soil
			GP	Poorly-Graded Gravels, Gravel- Sand mixtures, Little or No Fines	
		Gravels With Fines (Appreciable Amount of Fines)	GM	Silty Gravels, Gravel-Sand-Silt Mixtures	
			GC	Clayey Gravels, Gravel-Sand-CLAY Mixtures	
	Sand and Sandy Soils More than 50% of Coarse Fraction Passing No. 4 Sieve	Clean Sand (Little or no fines)	SW	Well-Graded Sands, Gravelly Sands, Little or No Fines	
			SP	Poorly-Graded Sands, Gravelly Sands, Little or No Fines	
		Sands with Fines (Appreciable amount of fines)	SM	Silty-Sands, Sand-Silt Mixtures	
			SC	Clayey sands, Sand-Clay Mixtures	Silty/ Clayey Sands Soil
Fine Grained Soils More than 50% of Material is Smaller than #200 Sieve	Silts and Clays	Liquid Limit <50	ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight plasticity	
			CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays	
			OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silts and Clays	Liquid Limit >50	MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sand or Silty Soils	
			CH	Inorganic Clays of High Plasticity, Fat Clays	Clay/ Silt Soils
			OH	Organic Clays of Medium to High Plasticity, Organic Silts	
Highly Organic Soils			PT	Peat, humus, Swamp Soils With High Organic Contents	

Pathway	Symbol	Pathway	Symbol
Direct Contact w/soil	CL	GW to Indoor Air	CL
Soil to DW Leaching	CL	GW Ingestion	CL
Soil to Indoor Air	CL	Soil to Non-DW Leaching	CL

I have inspected the soil at: 939 East River Road, Rossford Ohio.
(address) (city)

Name (Printed): Thomas Thornburg, Geologist, Parsons Date: 5/14/2002
(Name of Classifier, Title, Firm Name)

Signature:

Parsons

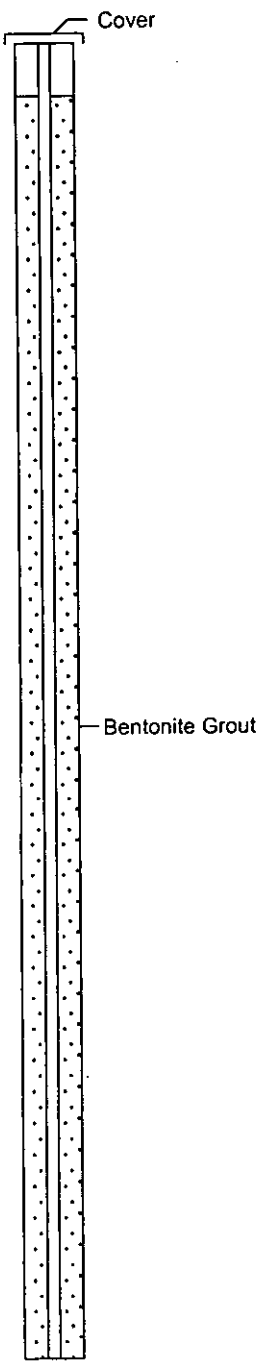
LOG OF BORING MW-2

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 6 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 6 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 33.48' on 4/11/02

Depth in feet	Sample	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					Asphalt and limestone basecourse (FILL).		
			Hand		Black, dry, loose, clayey sand, some asphalt and concrete fragments, trace red clay tile fragments (FILL).		
	1	NA	Auger	0.7			
			to			FL	
	2	NA	5'	5.4			
5	3	0%	1-1-2-1	NR			
	4	100%	2-2-2-3	42.8	Light brown, dry, slightly soft, silty CLAY, little sand.		
10	5	100%	4-4-5-9	>2000 *	Brown and gray soft zone from 10' to 10.25'.		
					Soil becomes stiff with trace amounts of gravel.		
	6	70%	4-6-6-9	1391			
					Brown, dry, stiff, silty CLAY, little sand, trace gravel.		
	7	100%	Direct Push	3.6			
15	8	100%	8-12 17-18	10.1		CL	
	9	60%	18-25 30-32	2.5	Mottled brown and gray, dry, very stiff, silty CLAY, little sand, trace gravel.		
20	10	100%	12-15 18-19	1.3			
	11	100%	15-20 22-25	0.5			
	12	70%	10-12 15-16	0.8	Olive brown and gray, dry, stiff, silty CLAY, little sand, trace gravel.		
25							

Well: MW-2
Elev.:



Parsons

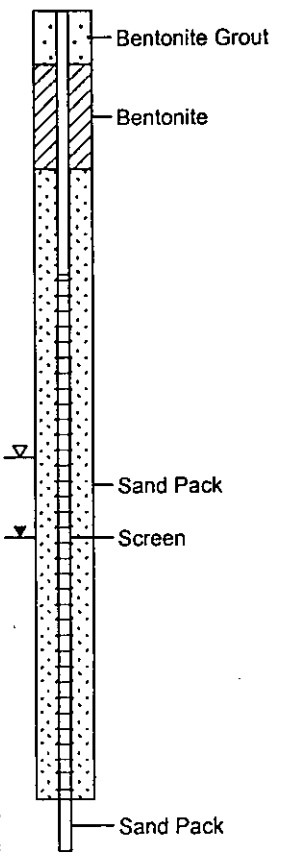
LOG OF BORING MW-2

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 6 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 6 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 33.48' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
25	13	100%	5-5-5-7	0.0	Soil becomes slightly soft.		
	14	100%	7-10 13-13	0.0	Gray, moist, slightly soft, silty CLAY, little sand, trace gravel.		
30	15	100%	3-4-4-6	0.0			
	16	100%	6-8-11-12	0.0	Soil becomes very moist from 31.5' to 32'.		
	17	90%	4-5-7-8	0.0 *	Soil becomes very moist.	CL	
35	18	100%	3-4-4-3	0.0	Wet @ 35'. Soil becomes very plastic.		
	19	100%	2-2-3-4	0.0			
40	20	100%	2-2-4-5	0.0			
					End of boring @ 41.0'		
45							
50							

Well: MW-2
Elev.:



NR = No Recovery
*Sample submitted for laboratory analysis.

05-14-2002 P:\SSA\3642_R~1\CADD\MW-002.BOR

Parsons

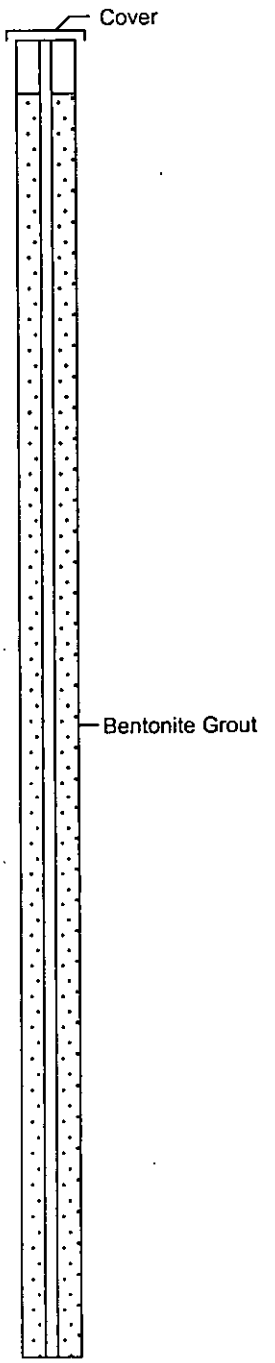
LOG OF BORING MW-3

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 7 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 7 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 35.11' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0			Hand		Asphalt and gray, crushed limestone (ODOT 304) FILL.	FL	
	1	NA	Auger	0.0	Mottled brown and gray, dry, stiff, silty CLAY, little sand, trace gravel.		
			to		Light brown, dry, slightly soft, silty CLAY, little sand.		
	2	NA	5'	0.0			
5					Brown, dry, stiff, silty CLAY, little sand, trace gravel.		
	3	70%	3-4-4-12	0.0			
					Soil becomes very stiff.		
	4	75%	15-17 20-21	0.0			
10	5	100%	14-17 19-22	0.0			
					Soil becomes mottled brown and dark brown.		
	6	50%	34-50/5"	0.0			
	7	100%	13-17 19-20	0.0		CL	
15					Soil becomes dark brown.		
	8	100%	13-16 19-23	0.0			
	9	20%	33-50/3"	0.0			
					Gray, dry, stiff, silty CLAY, little sand, trace gravel.		
20	10	90%	13-14 17-19	0.0			
	11	100%	12-15 16-20	0.0			
	12	100%	12-14 12-10	0.0			
25							

Well: MW-3
Elev.:



Parsons

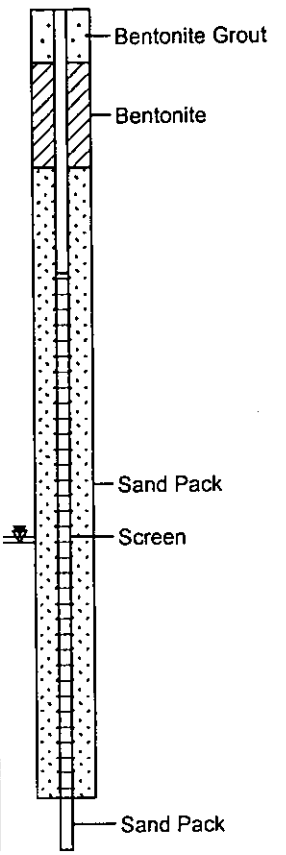
LOG OF BORING MW-3

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 7 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 7 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 35.11' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
25	13	100%	5-7-7-9	0.0	Soil becomes moist and slightly soft.		
	14	100%	10-13 14-17	0.0			
30	15	100%	8-9-10-13	0.0			
	16	100%	8-14 16-17	0.0			
	17	100%	3-4-4-6	0.0 *	Soil becomes very moist and soft.	CL	
35	18	100%	3-3-3-3	0.0	Wet @ 35'. Soil becomes very plastic.		
	19	100%	5-7-7-10	0.0			
40	20	100%	3-4-4-5	0.0			
					End of boring @ 41.0'		
45							
50							

Well: MW-3
Elev.:



*Sample submitted for laboratory analysis.

05-14-2002 P:\SSA\3642_R-1\CADD\MW-003.BOR

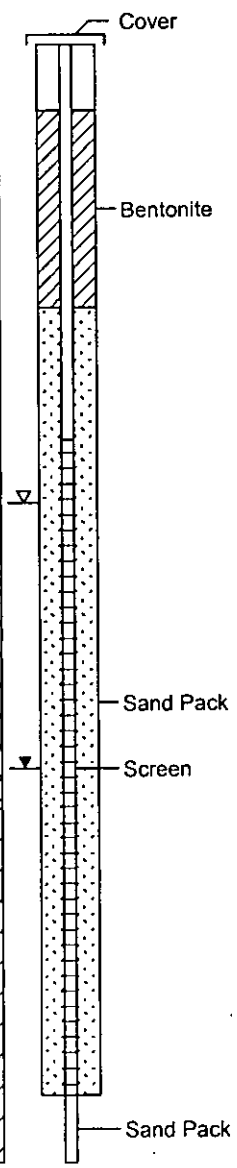
Parsons

LOG OF BORING MW-4

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 7 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 7 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 6.96' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					Asphalt and limestone base (ODOT 304).		
			Hand				
	1	NA	Auger	13.9	Mottled gray and olive, dry, stiff, silty CLAY, little sand, trace gravel (FILL).		
			to		Soil becomes slightly soft.		
	2	NA	5'	59.9			
5	3	100%	2-2-2-2	39.9		FL	
					Soil becomes slightly moist.		
	4	50%	3-4-4-5	163 *			
					Soil contains trace red brick fragments, trace red clay tile fragments.		
10	5	100%	4-4-4-4	150 *			
					Wet @ 11'. Brown, wet, loose, brick and tile fragments, some clay.		
	6	75%	4-6-6-8	273	Mottled dark gray and dark olive, moist, slightly soft, silty CLAY, little sand, trace gravel, trace organics.		
	7	100%	5-7-7-9	947		CL	
15	8	50%	4-5-5-6	571			
20					End of boring @ 17.0'		



*Sample submitted for laboratory analysis.

05-14-2002 P:\SSA\3642_R-1\CADD\MW-004.BOR

Parsons

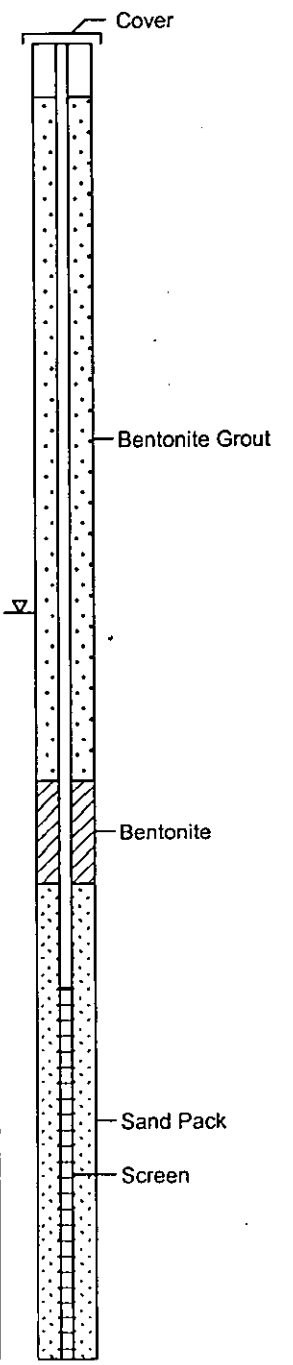
LOG OF BORING MW-5

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 7 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 8 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 10.81' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					Asphalt and limestone basecourse (FILL).		
	1	NA	Hand Auger to 5'	8.6	Mottled gray and olive, dry, stiff, silty clay, little sand, trace gravel, trace brick, asphalt, and concrete fragments (FILL).		
	2	NA		39.7			
5	3	50%	2-2-4-8	76.5 *			
	4	30%	5-7-9-10	>2000 *	Mottled brown, gray, and olive, dry, stiff, silty clay, little sand, trace gravel, trace brick and asphalt fragments (FILL).		
					Soil contains trace amounts of wood fragments (FILL).	FL	
10	5	100%	6-8-8-11	>2000 *			
					Soil becomes mottled dark gray and dark olive.		
	6	100%	8-12 14-15	43.3			
	7	75%	4-4-5-8	>2000 *	Mottled olive and gray, moist, soft, silty clay, little sand, trace gravel, trace brick and wood fragments (FILL).		
15					Gray, dry, slightly soft, silty clay, little sand, trace gravel, trace brick, trace organics (FILL).		
	8	100%	4-6-6-9	10.9			
	9	100%	4-6-8-10	3.6			
					Mottled olive, gray and dark gray, dry, soft, silty CLAY, little sand, trace gravel, trace wood fragments.		
20	10	100%	3-5-6-6	11.4			
	11	100%	4-4-7-8	6.2	Soil becomes dark gray with wood fragments.	CL	
	12	30%	3-5-6-6	5.4			
25							

Well: MW-5
Elev.:



Parsons

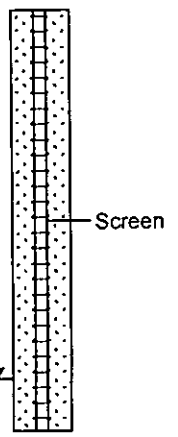
LOG OF BORING MW-5

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 7 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 8 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 10.81' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
25	13	100%	5-6-10-16	1.0	Mottled gray and olive, dry, stiff, silty CLAY, little sand, trace gravel.		
	14	90%	7-7-7-9	3.4	Mottled brown and gray, dry, stiff, silty CLAY, little sand, little gravel.	CL	
30	15	50%	4-5-1-1	16.8 *			
	16	50%	11-13 14-17	2.0	Wet @ 32'. Dark gray, wet, loose, poorly sorted, fine to coarse grained SAND.	SP	
35					End of boring @ 33.0'		
40							
45							
50							

Well: MW-5
Elev.:



*Sample submitted for laboratory analysis.

05-14-2002 P:\SSA\3642_R-1\CADD\MW-005.BOR

Parsons

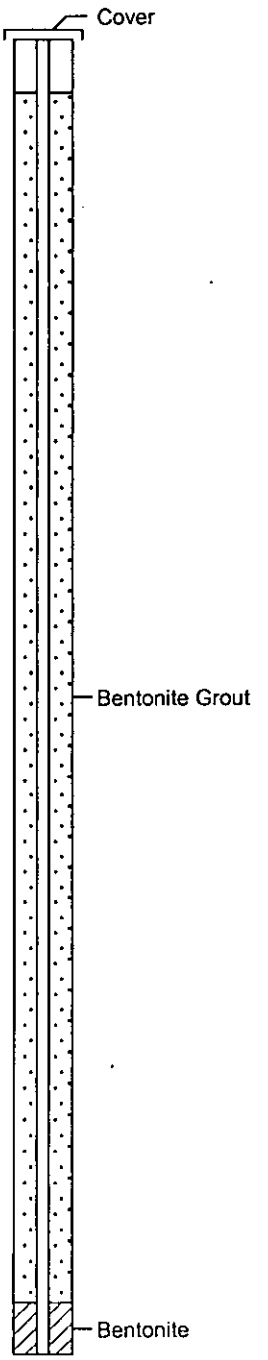
LOG OF BORING MW-6

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 11 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 11 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 26.14' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0	1	NA	Hand Auger to 5'	1.3 *	Asphalt and limestone base (ODOT 304). Brown, dry, stiff, silty clay, little sand, trace gravel, trace clay tile fragments and concrete fragments (FILL).	FL	
	2	NA		0.1	Brown, dry, stiff, silty CLAY, little sand, trace gravel..		
5	3	25%	2-3-3-3	0.0 *	Soil becomes slightly moist.		
	4	75%	4-5-5-6	0.0			
	5	100%	5-8-9-12	0.0	Soil becomes dark brown and very stiff.		
10	6	75%	15-25 50/5"	0.0			
	7	100%	9-14 15-21	0.0	Soil becomes mottled brown and gray.	CL	
15	8	100%	14-19 22-20	0.0	Slightly dark brown, dry, very stiff, silty CLAY, little sand, trace gravel.		
	9	75%	20-25 26-29	0.0 *	Shelby Tube collected from 19' to 21'.		
20	10	100%	Direct Push	NS			
	11	100%	10-12 15-16	0.0	Grayish brown, dry, stiff, silty CLAY, little sand, trace gravel.		
	12	25%	4-5-8-9	0.0			
25							

Well: MW-6
Elev.:



05-14-2002 P:\SSA\3642_R-1\CADD\MW-006.BOR

Parsons

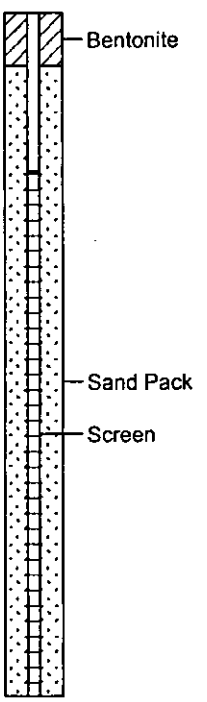
LOG OF BORING MW-6

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 11 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 11 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: SCH 40 PVC / 2"
Method	: 4.25" HSA	Scr. Length/slot	: 10'/ 0.010"
Hole Diameter	: 8"	Depth to Water	: 26.14' on 4/11/02

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
25	13	100%	3-4-5-7	0.0	Gray, dry, soft, silty CLAY, little sand, trace gravel.		
	14	60%	5-5-8-9	0.0			
					Soil becomes moist and slightly plastic.		
30	15	100%	3-4-3-4	0.0 *			
					Wet @ 31'. Soil becomes slightly wet and very plastic.		
	16	100%	3-3-3-3	0.0		CL	
	17	100%	2-2-2-2	0.0			
35	18	75%	1-1-1-1	0.0			
	19	75%	1-2-2-1	0.0			
					End of boring @ 39.0'		
40							
45							
50							

Well: MW-6
Elev.:



NS = No sample collected
*Sample submitted for laboratory analysis.

05-14-2002 P:\SSA\3642_R-1\CADD\MW-006.BOR

Parsons

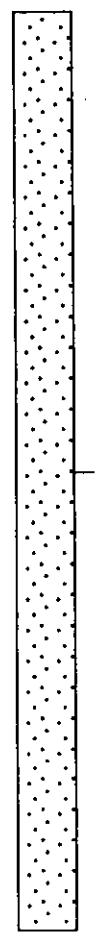
LOG OF BORING ST-1

Speedway SuperAmerica LLC
Unit #3642
939 E. River Road
Rossford, Ohio
Lat 41 deg 36' 10" / Long 83 deg 33' 56"

Drilling Start Date	: 11 March 2002	Weather	: Partly cloudy, 45F
Drilling Finish Date	: 11 March 2002	Geologist	: T Thornburg
Drilling Company	: Northcoast Drilling Service, Inc.	Screen type/diameter	: NA
Method	: 4.25" HSA	Scr. Length/slot	: NA
Hole Diameter	: 8"	Depth to Water	: NA

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS	GRAPHIC
0					Asphalt and limestone basecourse (FILL).		
					Brown, dry, stiff, silty CLAY, little sand, trace gravel, trace clay tile fragments and concrete fragments (FILL).	FL	
					Brown, dry, stiff, silty CLAY, little sand, trace gravel.		
5	1	60%	Direct Push		Shelby Tube collected from 5' to 7'.	CL	
					End of boring @ 7'.		
10							

Well: ST-1
Elev.:



DNR 7802.96

TYPE OR USE PEN
IF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

870049

WELL LOCATION

County Wood Township Ross

Owner/Builder (Circle One or Both) Speedway SuperAmerica, LLC (First / Last)

Address of Well Location 939 (Number) E River Rd (Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well

N ☐ X ____ . ____ +/- ____ ft. or m

S ☐ Y ____ . ____ +/- ____ ft. or m

Elevation of Well ____ . ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North

See attached site plan

MW-2

West East

South

WELL TEST*

Pre-Pumping Static Level ____ ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

Test: ☐ Bailing ☐ Pumping* ☐ Other

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

(Attach a copy of the pumping test record, per section 1521.05, ORC)

Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ____ ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Northcoast Drilling Service

Address 12344 S Kee'd

City, State, Zip Grafton, OH 44044-1

Signed T. O'Neil Date 5-15-2

Driller Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 40 ft.
Casing Diameter 2 in. Length 30 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.
Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type: 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

Joints: 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.
Type Slotted Material PVC
Set Between 40 ft. and 30 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 SAND Volume/Weight Used 350lbs
Method of Installation Poured through auger
Depth: Placed FROM 40' ft. TO 28' ft.

GROUT

Material Bentonite Volume/Weight Used 30gallons
Method of Installation Tremmy Pipe
Depth: Placed FROM 28 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Black, dry, loose, clayey	1'	
sand, trace red clay tile		6'
frags (Fill)		
Brown to gray silty	6'	
clay. Wet at 35'		40'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 5-15-02 Total Depth of Well 40 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
IF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

870050

WELL LOCATION

County Wood Township Ross

Owner/Builder (Circle One or Both) Speedway SuperAmerica LLC (First / Last)

Address of Well Location 939 (Number) E River Rd (Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well

N ☐ X ____ +/- ____ ft. or m

S ☐ Y ____ +/- ____ ft. or m

Elevation of Well ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North

See attached site Plan

MW-3

West East

South

WELL TEST*

Pre-Pumping Static Level ____ ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

☐ Bailing ☒ Pumping* ☐ Other

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

Attach a copy of the pumping test record, per section 1521.05, ORC)

Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ____ ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Northcoast Drilling Service

Address 12344 S. Reed Rd

City, State, Zip Gr. City Ohio 44044

Signed Date 5-15-02

Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 40' ft.
Casing Diameter 2 in. Length 30 ft. Thickness ____ in.

2 ☐ Borehole Diameter ____ inches Depth ____ ft.
Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground ____ ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.
Type Slotted Material PVC
Set Between 40 ft. and 30 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Sand Volume/Weight Used 350 lbs
Method of Installation Poured through auger.
Depth: Placed FROM 40 ft. TO 28 ft.

GROUT

Material Bentonite Volume/Weight Used 30 gallons
Method of Installation Tremmy Pipe
Depth: Placed FROM 28 ft. TO 1' ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Brown to Gray Silty Clay. wet at 35'	1'	40'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 5-7-02 Total Depth of Well 40 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

870051

WELL LOCATION

County Wood Township Ross

Owner/Builder (Circle One or Both) Speedway SuperAmerica LLC (First / Last)

Address of Well Location 9390 (Number) E. River Rd (Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well

N ☐ X _____ . _____ +/- _____ ft. or m

S ☐ Y _____ . _____ +/- _____ ft. or m

Elevation of Well _____ . _____ +/- _____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North

See attached site plan

MW-4

West East

South

WELL TEST*

Pre-Pumping Static Level _____ ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

Test: ☐ Bailing ☐ Pumping* ☐ Other

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

(Attach a copy of the pumping test record, per section 1521.05, ORC)

Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Northeast Drilling Service

Address 12344 S. Reed Rd

City State, Zip Sraftsburg OH 44144

Signed Date 5-15-2

Registration Number 1611

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 inches Depth 16 ft.

Casing Diameter 2 in. Length 6 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type: 1 ☐ Steel 2 ☐ | 1 ☐ Galv. 2 ☐ | 1 ☒ PVC 2 ☐ | 1 ☐ 2 ☐ Other

Joints: 1 ☒ Threaded 2 ☐ | 1 ☐ Welded 2 ☐ | 1 ☐ Solvent 2 ☐ | 1 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .020 Screen Length 10 ft.

Type Slotted Material PVC

Set Between 16 ft. and 6 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Sand Volume/Weight Used 300 lbs

Method of Installation Poured through auger

Depth: Placed FROM 16 ft. TO 4 ft.

GROUT

Material Bentonite Volume/Weight Used 10 gallons

Method of Installation Poured down auger

Depth: Placed FROM 4 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Brown and grey	1	
silty clay. Wet at 11		16

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 5-1-12 Total Depth of Well 16 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
IF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

870052

WELL LOCATION

County Wood Township Ross

Owner/Builder (Circle One or Both) Speedway SuperAmerica LLC (First / Last)

Address of Well Location 939 (Number) E River Rd (Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well

N ☐ X ____ . ____ +/- ____ ft. or m

S ☐ Y ____ . ____ +/- ____ ft. or m

Elevation of Well ____ . ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North

See attached site Plan

MW-5

West East

South

WELL TEST*

Pre-Pumping Static Level ____ ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

Test ☐ Bailing ☐ Pumping* ☐ Other

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

(Attach a copy of the pumping test record, per section 1521.05, ORC)

Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity ____ gpm

Pump set at ____ ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Northcoast Drilling Services

Address 12344 S. Reed Rd.

City, State, Zip Cleveland, OH 44141

Signed Date 3-15-02

OWR Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 inches Depth 33 ft.
Casing Diameter 2 in. Length 23 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.
Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type	1 ☐ Steel 2 ☐	1 ☐ Galv. 2 ☐	1 ☒ PVC 2 ☐	1 ☐ 2 ☐ Other
Joints	1 ☒ Threaded 2 ☐	1 ☐ Welded 2 ☐	1 ☐ Solvent 2 ☐	1 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.
Type Slotted Material PVC
Set Between 33 ft. and 23 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 SAND Volume/Weight Used 350 lbs
Method of Installation Poured through augers
Depth: Placed FROM 33 ft. TO 21 ft.

GROUT

Material Bentonite Volume/Weight Used 200 gallons
Method of Installation Tremmie Pipe
Depth: Placed FROM 21 ft. TO 1' ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand; etc.	From	To
Brown to gray silty clay,	1'	
wet at 32'		33'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 3-8-02 Total Depth of Well 33 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.96

TYPE OR USE PEN
LF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

869996

WELL LOCATION

County Wood Township Ross

Owner/Builder (Circle One or Both) Speedway SuperAmerica LLC (First / Last)

Address of Well Location 9390 E River Rd (Number / Street Name)

City Bossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well

N ☐ X . +/- ft. or m

S ☐ Y . +/- ft. or m

Elevation of Well . +/- ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:

North

See attached site Plan

MW-6

West East

South

WELL TEST*

Pre-Pumping Static Level ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

Air ☐ Bailing ☐ Pumping* ☐ Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Northwest Drilling Service

Address 12344 S. Reed

City, State, Zip Bowling Green OH 43402

Signed Date 5-15-02

OWH Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☒ Borehole Diameter 8 inches Depth 38 ft.

Casing Diameter 2 in. Length 28 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type: 1 ☐ 2 ☐ Steel; 1 ☐ 2 ☐ Galv.; 1 ☒ 2 ☐ PVC; 1 ☐ 2 ☐ Other

Joints: ☒ Threaded; 1 ☐ 2 ☐ Welded; 1 ☐ 2 ☐ Solvent; 1 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.

Type Slotted Material PVC

Set Between 33 ft. and 28 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Sand Volume/Weight Used 7 bags

Method of Installation Poured through augers

Depth: Placed FROM 34' ft. TO 26' ft.

GROUT

Material Bentonite Volume/Weight Used 2 gallons

Method of Installation Tremie Pipe

Depth: Placed FROM 26' ft. TO 1' ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Brown to grey silty clay Wet at 31'	1'	34'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 5-11-02 Total Depth of Well 34 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224-9971

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

APPENDIX D

APPENDIX D

SOIL AND GROUNDWATER LABORATORY REPORTS

Parsons ES Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: SSA 3642 Rossford, OH

Project Number: 741479.00320

Sample Date and Description: 15 Soil 3/6/02 - 3/11/02

Project Manager: ACT

Does report agree with COC? (YES) *NO

Is Data Review Requested By Client? YES *NO

TRACKING FORM COMPLETE Initials: SJM

*COMMENTS: In Lieu of Parsons ES reviewing and flagging reports, the client has requested the laboratory provide written explanation to qualify analytical data.

*OTHER COMMENTS:

COPY

02/29/00 TMN

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

March 22, 2002

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119-3088
TEL: (216) 486-9005
FAX: (216) 486-2369

RE: Speedway #3642 Order No.: 0203242

Dear Adam Tucker,

BIO-CHEM Laboratories, Inc. completely received 15 samples on 03/15/2002 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to insure a better tomorrow.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0203242
Completely Received: 03/15/2002

Work Order Sample Summary

Date Reported: 03/22/2002

Lab Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
0203242-01A	MW-2 (9-11')	Soil	03/06/2002	03/15/2002
0203242-02A	MW-2 (33-35')	Soil	03/06/2002	03/15/2002
0203242-03A	MW-3 (9-11')	Soil	03/07/2002	03/15/2002
0203242-04A	MW-3 (33-35')	Soil	03/07/2002	03/15/2002
0203242-05A	MW-4 (7-9')	Soil	03/07/2002	03/15/2002
0203242-06A	MW-4 (9-11')	Soil	03/07/2002	03/15/2002
0203242-07A	MW-5 (7-9')	Soil	03/07/2002	03/15/2002
0203242-08A	MW-5 (9-11')	Soil	03/07/2002	03/15/2002
0203242-09A	MW-5 (29-31')	Soil	03/08/2002	03/15/2002
0203242-10A	MW-6 (1-3')	Soil	03/11/2002	03/15/2002
0203242-11A	MW-6 (5-7')	Soil	03/11/2002	03/15/2002
0203242-12A	MW-6 (17-19')	Soil	03/11/2002	03/15/2002
0203242-13A	MW-6 (29-31')	Soil	03/11/2002	03/15/2002
0203242-14A	MW-5 (5-7')	Soil	03/07/2002	03/15/2002
0203242-15A	MW-5 (13-15')	Soil	03/07/2002	03/15/2002

BIO-CHEM Laboratories, Inc. Date: *03/22/2002*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0203242

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-01A

Project Number: 741479 00320
Client Sample ID: MW-2 (9-11')
Collection Date: 03/06/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 50		50	µg/Kg-dry	50	DRF	03/15/2002
2. Toluene	SW8260B	100		50	µg/Kg-dry	50	DRF	03/15/2002
3. Ethylbenzene	SW8260B	400		50	µg/Kg-dry	50	DRF	03/15/2002
4. o-Xylene	SW8260B	960		50	µg/Kg-dry	50	DRF	03/15/2002
5. m,p-Xylene	SW8260B	4,700		100	µg/Kg-dry	50	DRF	03/15/2002
6. Methyl tert-butyl ether	SW8260B	< 50		50	µg/Kg-dry	50	DRF	03/15/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-02A

Project Number: 741479 00320
Client Sample ID: MW-2 (33-35')
Collection Date: 03/06/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	13		10	µg/Kg-dry	1	DRF	03/15/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/15/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/15/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/15/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	03/15/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/15/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-03A

Project Number: 741479 00320
Client Sample ID: MW-3 (9-11')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	18		10	µg/Kg-dry	1	DRF	03/15/2002
2. Toluene	SW8260B	11		10	µg/Kg-dry	1	DRF	03/15/2002
3. Ethylbenzene	SW8260B	13		10	µg/Kg-dry	1	DRF	03/15/2002
4. o-Xylene	SW8260B	26		10	µg/Kg-dry	1	DRF	03/15/2002
5. m,p-Xylene	SW8260B	62		20	µg/Kg-dry	1	DRF	03/15/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/15/2002
FRACTION ORGANIC CARBON								
1. Moisture Content	D2974-87	15		0.1	wt%	1	TMB	03/22/2002
2. Ash Content at 440-C	D2974-87	98		0.1	wt%	1	TMB	03/22/2002
3. Organic Matter	D2974-87	1.8		0.1	wt%	1	TMB	03/22/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-04A

Project Number: 741479 00320
Client Sample ID: MW-3 (33-35')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	55		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	35		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	16		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	16		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	60		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
FRACTION ORGANIC CARBON								
1. Moisture Content	D2974-87	19		0.1	wt%	1	TMB	03/22/2002
2. Ash Content at 440-C	D2974-87	98		0.1	wt%	1	TMB	03/22/2002
3. Organic Matter	D2974-87	1.9		0.1	wt%	1	TMB	03/22/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL; Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-05A

Project Number: 741479 00320
Client Sample ID: MW-4 (7-9')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	400		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	17		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	140		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	45		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	97		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	350		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479 00320
Lab Order:	0203242	**Client Sample ID:**	MW-4 (9-11')
Project:	Speedway #3642	**Collection Date:**	03/07/2002
Lab Sample ID:	0203242-06A	**Matrix:**	SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	360		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	21		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	59		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	52		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	85		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	210		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-07A

Project Number: 741479 00320
Client Sample ID: MW-5 (7-9')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	400		50	µg/Kg-dry	50	DRF	03/16/2002
2. Toluene	SW8260B	4,600		50	µg/Kg-dry	50	DRF	03/16/2002
3. Ethylbenzene	SW8260B	8,300		50	µg/Kg-dry	50	DRF	03/16/2002
4. o-Xylene	SW8260B	22,000		50	µg/Kg-dry	50	DRF	03/16/2002
5. m,p-Xylene	SW8260B	46,000		100	µg/Kg-dry	50	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	200		50	µg/Kg-dry	50	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-08A

Project Number: 741479 00320
Client Sample ID: MW-5 (9-11')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	1,300		50	µg/Kg-dry	50	DRF	03/16/2002
2. Toluene	SW8260B	7,500		50	µg/Kg-dry	50	DRF	03/16/2002
3. Ethylbenzene	SW8260B	11,000		50	µg/Kg-dry	50	DRF	03/16/2002
4. o-Xylene	SW8260B	27,000		50	µg/Kg-dry	50	DRF	03/16/2002
5. m,p-Xylene	SW8260B	57,000		100	µg/Kg-dry	50	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 50		50	µg/Kg-dry	50	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-09A

Project Number: 741479 00320
Client Sample ID: MW-5 (29-31')
Collection Date: 03/08/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	50		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	34		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	13		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	21		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	57		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479 00320
Lab Order:	0203242	**Client Sample ID:**	MW-6 (1-3')
Project:	Speedway #3642	**Collection Date:**	03/11/2002
Lab Sample ID:	0203242-10A	**Matrix:**	SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479 00320
Lab Order:	0203242	**Client Sample ID:**	MW-6 (5-7')
Project:	Speedway #3642	**Collection Date:**	03/11/2002
Lab Sample ID:	0203242-11A	**Matrix:**	SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-12A

Project Number: 741479 00320
Client Sample ID: MW-6 (17-19')
Collection Date: 03/11/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	< 20		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-13A

Project Number: 741479 00320
Client Sample ID: MW-6 (29-31')
Collection Date: 03/11/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	19		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	19		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	10		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	14		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	48		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	< 10		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-14A

Project Number: 741479 00320
Client Sample ID: MW-5 (5-7')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	180		10	µg/Kg-dry	1	DRF	03/16/2002
2. Toluene	SW8260B	28		10	µg/Kg-dry	1	DRF	03/16/2002
3. Ethylbenzene	SW8260B	64		10	µg/Kg-dry	1	DRF	03/16/2002
4. o-Xylene	SW8260B	51		10	µg/Kg-dry	1	DRF	03/16/2002
5. m,p-Xylene	SW8260B	250		20	µg/Kg-dry	1	DRF	03/16/2002
6. Methyl tert-butyl ether	SW8260B	65		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *03/22/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0203242
Project: Speedway #3642
Lab Sample ID: 0203242-15A

Project Number: 741479 00320
Client Sample ID: MW-5 (13-15')
Collection Date: 03/07/2002
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. Benzene	SW8260B	1,000		250	µg/Kg-dry	250	DRF	03/17/2002
2. Toluene	SW8260B	1,000		250	µg/Kg-dry	250	DRF	03/17/2002
3. Ethylbenzene	SW8260B	2,000		250	µg/Kg-dry	250	DRF	03/17/2002
4. o-Xylene	SW8260B	5,700		250	µg/Kg-dry	250	DRF	03/17/2002
5. m,p-Xylene	SW8260B	13,000		500	µg/Kg-dry	250	DRF	03/17/2002
6. Methyl tert-butyl ether	SW8260B	460		10	µg/Kg-dry	1	DRF	03/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

Lab Order: 0203242
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0203242-01A	MW-2 (9-11')	Soil	VOLATILES by GC/MS	03/06/2002		03/15/2002	9528	03/15/2002	GCMS_Z_020315D
0203242-02A	MW-2 (33-35')	Soil	VOLATILES by GC/MS	03/06/2002		03/15/2002	9528	03/15/2002	GCMS_Z_020315D
0203242-03A	MW-3 (9-11')	Soil	FRACTION ORGANIC CARB	03/07/2002		03/19/2002	FOC-3/22/2002	03/22/2002	GRAVIMETRIC_020319A
	MW-3 (9-11')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/15/2002	GCMS_Z_020315D
0203242-04A	MW-3 (33-35')	Soil	FRACTION ORGANIC CARB	03/07/2002		03/19/2002	FOC-3/22/2002	03/22/2002	GRAVIMETRIC_020319A
	MW-3 (33-35')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-05A	MW-4 (7-9')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-06A	MW-4 (9-11')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-07A	MW-5 (7-9')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-08A	MW-5 (9-11')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-09A	MW-5 (29-31')	Soil	VOLATILES by GC/MS	03/08/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-10A	MW-6 (1-3')	Soil	VOLATILES by GC/MS	03/11/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-11A	MW-6 (5-7')	Soil	VOLATILES by GC/MS	03/11/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-12A	MW-6 (17-19')	Soil	VOLATILES by GC/MS	03/11/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-13A	MW-6 (29-31')	Soil	VOLATILES by GC/MS	03/11/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-14A	MW-5 (5-7')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D
0203242-15A	MW-5 (13-15')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/17/2002	GCMS_Q_020316B
	MW-5 (13-15')	Soil	VOLATILES by GC/MS	03/07/2002		03/15/2002	9528	03/16/2002	GCMS_Z_020315D

PAGE 1 OF 2

Chain-of-Custody-Record

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 939 E. RIVER RD.
CITY: ROSSFORD, OH
SSA PROJ. MGR: MATT JORDAN
OFFICE: ~~ENON~~ ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 863-6510 FAX# (937) 863-6078
AFE#: _____ WORK ORDER#: _____
CODE: _____ TYPE: L

TURN AROUND TIME
STANDARD ☐
RUSH ☒

LAB: BIO-CHEM LABORATORIES
CONSULTANT: PARSONS
ADDRESS: 19101 VILLAVIEW RD., SUITE 100
CITY: CLEVELAND STATE: OH
PROJECT MGR: ADAM TUCKER
PHONE# (216) 486-9005 FAX# (216) 486-2369
SAMPLER: THOMAS THORNBURG
SHIPPED VIA: UPS
TRACKING #: 1ZF4V6682210019582

	Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX + MTBE BY EPA METH. 8021B	Analysis to be Performed: TOC's BY ASTM D 2974	Remarks
01	MW-2 (9-11')	3-6-02 1017	S	1	4 oz. JAR	NONE	X		
02	MW-2 (33-35')	1651					X		
03	MW-3 (9-11')	3-7-02 1026					X	X	
04	MW-3 (38-40')	1310					X	X	
05	MW-4 (7-9')	1553					X		
06	MW-4 (9-11')	1558					X		
07	MW-5 (7-9')	1736					X		
08	MW-5 (9-11')	1740					X		
09	MW-5 (29-31')	3-8-02 0819					X		
10	MW-6 (1-3')	3-11-02 0858					X		
11	MW-6 (5-7')	0921					X		
12	MW-6 (17-19')	0955					X		

CUSTODY RECORD

Relinquished by: _____ Date: 3/14/02 Time: 10:30 AM
Received by: _____ Date: 3/14/02 Time: 10:30
Relinquished by: _____ Date: 3/14/02 Time: 17:00
Received by laboratory: UPS Date: _____ Time: _____
Special Reporting Requirements: UPS
Lab Notes: _____ Temp: 3-15-02 10:00

[redacted] 1479 0035 pg 2

PAGE 2 OF 2

Chain-of-Custody-Record

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 939 E. RIVER RD.
CITY: ROSSFORD, OH
SSA PROJ. MGR: MATT JORDAN
OFFICE: (ENON) ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 863-6310 FAX# (937) 863-6078
AFE#: WORK ORDER#:
CODE: TYPE: L

TURN AROUND TIME
STANDARD ☐
RUSH ☒

LAB: BIO-CHEM LABORATORIES
CONSULTANT: PARSONS
ADDRESS: 19101 VILLAVIEW RD., SUITE 100
CITY: CLEVELAND STATE: OH
PROJECT MGR: ADAM TUCKER
PHONE# (216) 486-9005 FAX# (216) 486-2369
SAMPLER: THOMAS THORNBURG
SHIPPED VIA: UPS
TRACKING #: 1ZF4V6822/00195 82

	Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX + MTBE BY EPA METH. 8021B	Remarks
13	MW-6 (29-31')	3-11-02 1113	S	1	4 oz JAR	NONE	X	
14	MW-5 (5-7')	3-7-02 1733	↓	↓	↓	↓	↓	
15	MW-5 (13-15')	↓ 1750	↓	↓	↓	↓	↓	

CUSTODY RECORD

Relinquished by:	Date 3/14/02	Time 10:30 AM	Received by:	Date 3/14/02	Time 10:30
Relinquished by:	Date 3/14/02	Time 17:00	Received by laboratory: UPS	Date	Time
Special Reporting Requirements: UPS			Lab Notes:	Temp 3-15-02	10:00

Parsons ES Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: SSA #3642 ROSSFORD

Project Number: 741479.00320

Sample Date and Description: 4/11/02 9 H_2O

Project Manager: ACT

Does report agree with COC? (YES) *NO

Is Data Review Requested By Client? YES *NO

TRACKING FORM COMPLETE Initials: TSB

*COMMENTS: In Lieu of Parsons ES reviewing and flagging reports, the client has requested the laboratory provide written explanation to qualify analytical data.

*OTHER COMMENTS:

COPY

02/29/00 TMN

BIO-CHEM
ENVIRONMENTAL
ANALYTICAL
LABORATORIES

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

April 17, 2002

Adam Tucker
Parsons
19101 Villaview Rd., Ste 100
Cleveland, OH 44119-3088
TEL: (216) 486-9005
FAX: (216) 486-2369

RE: Speedway #3642 Order No.: 0204215

Dear Adam Tucker,

BIO-CHEM Laboratories, Inc. completely received 9 samples on 04/16/2002 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Sherry Chappell

Sherry Chappell
Administrative Assistant

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0204215
Completely Received: 04/16/2002

Work Order Sample Summary

Date Reported: 04/17/2002

Lab Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
0204215-01A	MW-1	Aqueous	04/11/2002	04/16/2002
0204215-02A	MW-2	Aqueous	04/11/2002	04/16/2002
0204215-03A	MW-3	Aqueous	04/11/2002	04/16/2002
0204215-04A	MW-4	Aqueous	04/11/2002	04/16/2002
0204215-05A	MW-5	Aqueous	04/11/2002	04/16/2002
0204215-06A	MW-6	Aqueous	04/11/2002	04/16/2002
0204215-07A	MW-A	Aqueous	04/11/2002	04/16/2002
0204215-08A	MW-B	Aqueous	04/11/2002	04/16/2002
0204215-09A	Field Blank	Aqueous	04/11/2002	04/16/2002

BIO-CHEM Laboratories, Inc. Date: *04/17/2002*

CLIENT: Parsons
Project: Speedway #3642
Lab Order: 0204215

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	MW-1
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-01A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0204215
Project: Speedway #3642
Lab Sample ID: 0204215-02A

Project Number: 741479.00320
Client Sample ID: MW-2
Collection Date: 04/11/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	MW-3
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-03A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT: Parsons
Lab Order: 0204215
Project: Speedway #3642
Lab Sample ID: 0204215-04A

Project Number: 741479.00320
Client Sample ID: MW-4
Collection Date: 04/11/2002
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	3,100		10	µg/L	10	DRF	04/16/2002
2. Toluene	SW8021B	69		10	µg/L	10	DRF	04/16/2002
3. Ethylbenzene	SW8021B	2,100		10	µg/L	10	DRF	04/16/2002
4. o-Xylene	SW8021B	230		10	µg/L	10	DRF	04/16/2002
5. m,p-Xylene	SW8021B	9,400		20	µg/L	10	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	2,600		40	µg/L	10	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	MW-5
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-05A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	1.8		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	1.2		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	3.7		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	270		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	Project Number:	741479.00320
Lab Order:	0204215	Client Sample ID:	MW-6
Project:	Speedway #3642	Collection Date:	04/11/2002
Lab Sample ID:	0204215-06A	Matrix:	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	MW-A
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-07A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	2,800		10	µg/L	10	DRF	04/16/2002
2. Toluene	SW8021B	110		10	µg/L	10	DRF	04/16/2002
3. Ethylbenzene	SW8021B	2,000		10	µg/L	10	DRF	04/16/2002
4. o-Xylene	SW8021B	220		10	µg/L	10	DRF	04/16/2002
5. m,p-Xylene	SW8021B	9,100		20	µg/L	10	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	2,600		40	µg/L	10	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	MW-B
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-08A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *04/17/2002*

ANALYTICAL REPORT

CLIENT:	Parsons	**Project Number:**	741479.00320
Lab Order:	0204215	**Client Sample ID:**	Field Blank
Project:	Speedway #3642	**Collection Date:**	04/11/2002
Lab Sample ID:	0204215-09A	**Matrix:**	AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/PID								
1. Benzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
2. Toluene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
3. Ethylbenzene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
4. o-Xylene	SW8021B	< 1		1	µg/L	1	DRF	04/16/2002
5. m,p-Xylene	SW8021B	< 2		2	µg/L	1	DRF	04/16/2002
6. Methyl tert-butyl ether	SW8021B	< 4		4	µg/L	1	DRF	04/16/2002

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

04/17/2002

Lab Order: 0204215
Client: Parsons
Project: Speedway #3642

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0204215-01A	MW-1	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-02A	MW-2	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-03A	MW-3	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-04A	MW-4	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-05A	MW-5	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-06A	MW-6	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-07A	MW-A	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-08A	MW-B	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A
0204215-09A	Field Blank	Aqueous	VOLATILES by GC/PID	04/11/2002			GC_B_PID_020416A	04/16/2002	GC_B_PID_020416A

0204215

PAGE 1 OF 1

Chain-of-Custody-Record

7411479.00320

Speedway SuperAmerica Project Information

SSA STORE #: 3642
ADDRESS: 939 East River Road
CITY: Rossford, OHIO
SSA PROJ. MGR: Matt Jordum
OFFICE: (ENON) ROMULUS INDIANAPOLIS ATLANTA
PHONE# (937) 864-3000 FAX# ( )
AFE#: WORK ORDER#:
CODE: TYPE:

TURN AROUND TIME
STANDARD [X]
RUSH [ ]

LAB: Bio Chem Laboratories
CONSULTANT: PARSONS
ADDRESS: 19101 Villaview Road
Cleveland OHIO 44119
PROJECT MGR: Adam Tucker
PHONE# (216) 486-9005 FAX# (216) 486-2369
SAMPLER:
SHIPPED VIA: UPS
TRACKING #: 1ZF4V6CX2200198 40

Sample ID	Date/Time Sampled	Matrix S = Soil W = Water A = Air	# of Containers	Container Type	Preservative	Analysis to be Performed: BTEX/MTBE 8021							Remarks
MW1	4/11/02 16:03	W	2	VOA	HCL	X							
MW2	16:20				HCL	X							
MW3	16:14				HCL	X							
MW4	16:25				HCL	X							
MW5	16:06				HCL	X							
MW6	16:10				HCL	X							
MW A	16:26				HCl	X							
MW B	15:58				HCL	X							
FIELD BLANK	15:55				HCL	X							

CUSTODY RECORD

Relinquished by:	Date	Time	Received by:	Date	Time
BHIZA/BenHur/PARSONS	4/15/02	13:00		4-15-02	13:00
Relinquished by:	Date	Time	Received by laboratory:	Date	Time
	4-15-02	17:00	Sherrie Heppard	4-16-02	900am

Special Reporting Requirements:

Lab Notes:

Temp: 1C4

JLT LABORATORIES, INC.

GEOTECHNICAL, GEOSYNTHETIC AND MATERIALS TESTING AND RESEARCH

March 21, 2002
02LS038.08

Parsons Engineering Science, Inc.
19101 Villaview Road
Cleveland, OH 44119

Attn: Andrew Shrock

RE: GEOTECHNICAL TEST RESULTS
939 EAST RIVER ROAD, ROSSFORD, OHIO
SSA #3642

Dear Mr. Shrock:

JLT Laboratories, Inc. (JLT) is pleased to submit the results of geotechnical testing performed on two (2) shelby tube samples identified as ST-1 (5-7') and MW-6 (19-21') for the above reference project. Testing performed included the following:

Atterberg Limits	ASTM D-4318
USCS Classification	ASTM D-2487
Dry Bulk Density	N/A
Grain Size Analysis	ASTM D-422
Specific Gravity	ASTM D-854
Moisture Content	ASTM D-2216
Total Porosity	Corps of Engineers
Volumetric Air Content	Corps of Engineers
Volumetric Water Content	Corps of Engineers
Vertical Hydraulic Conductivity	ASTM D-5084

All testing was performed in accordance with the above referenced test standards and subject to JLT's internal QA/QC and data validation procedures.

We appreciate the opportunity to provide our services and look forward to working with you again. Should you have any questions, comments or require additional information, please do not hesitate to call. Thank you.

Sincerely,

JLT LABORATORIES, INC.

John Boschuk, Jr., P.E.
President

Enclosures
JB/rdo
\wp9\letter\0266

938 South Central Avenue • Canonsburg, Pennsylvania 15317 Tel: (724) 746-4441 Fax: (724) 745-4261

ATTERBERG LIMITS DETERMINATION

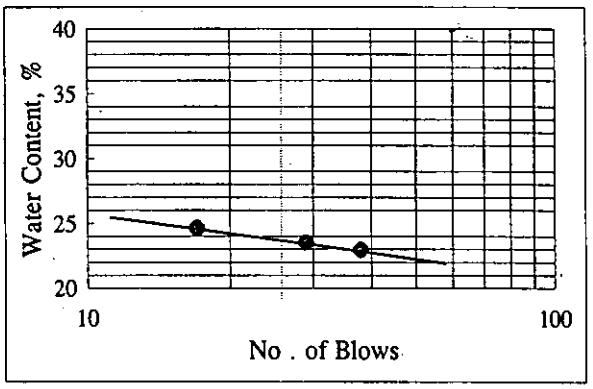
ASTM D-4318

JLT

CLIENT:	Parsons Engineering Science	JOB No.:	02LS038.08
PROJECT:	939 East River Road, Rossford, Ohio	DATE OF TEST	03/21/02
	SSA No. 3642	TESTED BY:	DB
SAMPLE ID:	ST-1 at 5 to 7 feet		
Tube Type :	30 inch	CHECKED BY:	JB

LIQUID LIMIT DETERMINATION

Can No.	AT-86	AT-61	AT-77		
Wt. of wet soil + can, g	13.8175	13.5114	12.7894		
Wt. of dry soil + can, g	11.931	11.7524	11.2002		
Wt. of Can	4.2741	4.2702	4.2767		
Wt. of dry soil, g	7.6569	7.4822	6.9235		
Wt. of Moisture, g	1.8865	1.7590	1.5892		
Water content, %	24.64	23.51	22.95		
No. of blows	17	29	38		



LIQUID LIMIT = 24
PLASTIC LIMIT = 18
PLASTICITY INDEX = 6

PLASTIC LIMIT DETERMINATION

Can No.	AT-911	AT-60			
Wt. of wet soil + can, g	14.4075	14.3796			
Wt. of dry soil + can, g	12.8625	12.8364			
Wt. of Can, g	4.3051	4.2977			
Wt. of dry soil, g	8.5574	8.5387			
Wt. of Moisture, g	1.5450	1.5432			
Water content, %	18.05	18.07			
Plastic Limit	18				

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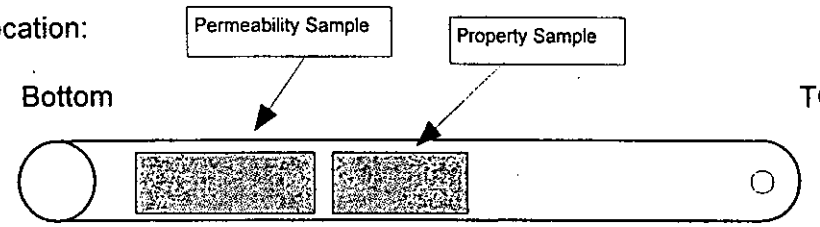
DENSITY AND MOISTURE OF TUBE SAMPLES

JLT

Client:	Parsons Engineering Science	Job No. :	02LS038.08
Project:	939 E. River Rd, Rossford, Ohio	Date :	03/20/02
Site ID :	SSA No. 3642	Perf'd By :	DB/RO
Tube ID:	ST-1 at 5 to 7 feet	Chk'd By :	JB

Sample Location:



Moisture - Density Determination

Tare ID	E-40	
Section Length :	5.00	inches
Inside Diameter of Sample:	2.80	inches
Wt. of Wet Soil + Tube + Tare	1486.5	grams
Wt. of Dry Soil + Tube + Tare	1304.3	grams
Weight of Tube Section only	389.1	grams
Wt. of Tare only	8.3	grams
Weight of Wet Soil only	1089.1	grams
Weight of Dry Soil Only	906.9	grams
Weight of Water in Sample	182.2	grams
Moisture Content	***20.09***	***%***
Bulk Wet Density:	***134.6***	***pcf***
Bulk Dry Density :	***112.1***	***pcf***

Secondary Moisture Determination from Trimmings

Tare ID	B71	
Wt. of Wet Soil + Tare	215.1	grams
Wt. of Dry Soil + Tare	183.3	grams
Wt. of Tare	8.5	grams
Weight of Water	31.8	grams
Weight of Dry Soil	174.8	grams
Moisture Content	18.19	%

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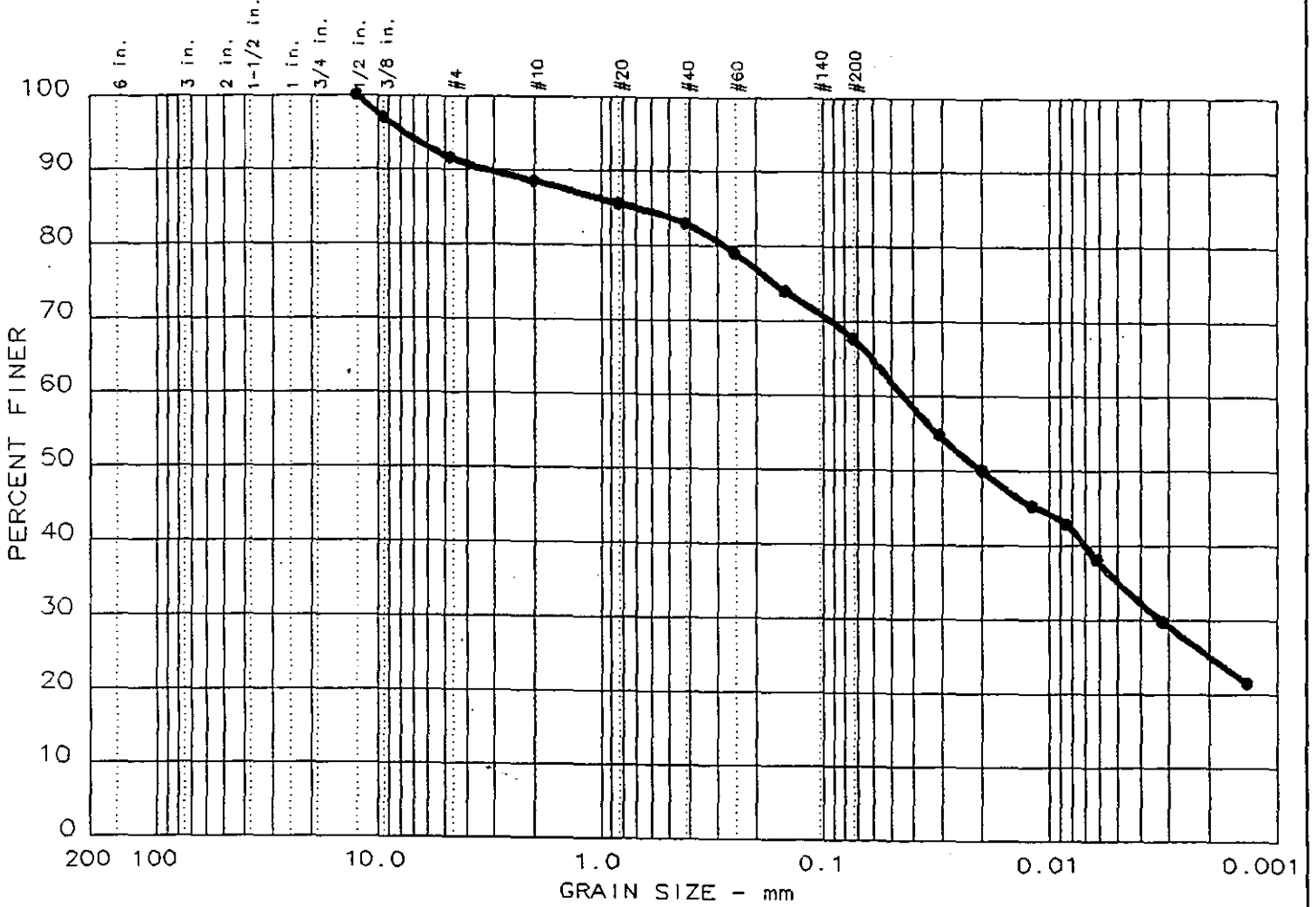
PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY	USCS
●	5	0.0	8.5	23.9	42.5	25.1	CL-ML

SIEVE inches size	PERCENT FINER ●
0.5	100.0
0.375	96.9

GRAIN SIZE	
D_{60}	0.00
D_{30}	
D_{10}	

COEFFICIENTS	
C_c	
C_u	

SIEVE number size	PERCENT FINER ●
4	91.5
10	88.4
20	85.5
40	82.8
60	78.9
100	73.9
200	67.6

Sample information:
● 939 East River Road
ST-1 @ 5-7 ft SSA#3642
Rossford, Ohio

Remarks:
LL=24, PL=18, PI=6
As-recv'd M/C = 18.19%
ASTM D-422/D-4318/D-2216

JLT Laboratories, Inc.

Project No.: 02LS038.08
Project: Parsons Engineering, Science

Date: 3/21/02 Data Sheet No. 1

SPECIFIC GRAVITY OF SOIL SOLIDS

ASTM D-854 - Latest Revision 2001

JLT

Client:	Parson Engineering Science	**Job Number:**	02LS038.08
Project:	939 E. River Road, Rossford, Ohio SSA:3642	**Date:**	03/21/02
Material:	Sandy silty CLAY (CL-ML)	**Tested By:**	DB/MLB
Sample I.D.:	ST-1 at 5 to 7 feet	**Checked By:**	JB

Method :	Procedure B (Dry)		
Fluid :	De-aired Distilled Water	**Temperature (deg C) (t):**	21.8
Particle Size :	Minus No. 4 Sieve	**Correction Factor (1) :**	0.99961
		Density Correction Factor (1) :	0.99782
		Air Removal Method :	Vacuum

	REPLICATE			
Description	***1***	***2***	***3***	**Average**
Wt. flask + water + soil = Mpws	392.31	391.11	391.74	
Wt. flask + water = Mpw	344.80	343.60	344.20	
Wt. flask + water = Mpw at 20 deg. C	344.05	342.85	343.45	
Evap. dish no.	J-1	J-2	J-3	
Wt. of evap. dish	41.23	39.37	39.42	
Wt of dish +dry soil	116.23	114.37	114.42	
Wt. of dry soil = Ms	75.00	75.00	75.00	
Gs = Ms / (Mpw-(Mpws-Ms)) at t	**2.728**	**2.728**	**2.731**	
Specific Gravity at 20 deg. C	**2.73**	**2.73**	**2.73**	***2.73***

(1) Correction Factors derived from Table 2 of ASTM

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PHYSICAL PROPERTY CALULATIONS FOR TUBE SAMPLES
Corps of Engineers Procedures

JLT

Client	: Parsons Engineering Science	Date	: 03/21/02
Project	: 939 E. River Road, Rossford, Ohio	Project No.	: 02LS038.08
Sample No	: ST-1 at 5 to 7 feet	Perf'd By	: DB
Site No	: SSA - 3642	Chk'd By	: JB
Description	: Sandy silty CLAY (CL-ML)		

UNIT WEIGHT CALCULATION

"e" Height	=	4.00	in	
"e" Diameter	=	2.80	in	
Area	=	6.1575	sq in	
Volume	=	24.63	cu in	
Volume	=	403.69	cc	Vt
"e" ***Moisture***	=	***16.10***	*%*	
Moisture	=	0.161	dec	
"e" Wet Weight	=	872.7	grms	
Dry Weight	=	751.7	grms	Ws
Wet Density	=	***134.9***	*pcf*	
Dry Density	=	***116.2***	*pcf*	

"e" = Data entry location (Total of 5)

VOID RATIO

Dry Weight	=	751.68	grms	Ws
"e" ***Specific Gravity***	=	***2.73***		***Gs***
Total Volume	=	403.69	cc	Vt
Volume of Solids	=	275.34	cc	Vs= Ws/Gs
Void Ratio	=	***0.4661***		***(V t- Vs) / Vs***

Specific Gravity : Assumed [ ] Computed [X]

POROSITY = (V t- Vs) / Vt * 100%

Total Volume	=	403.69	cc	Vt
Volume Solids	=	275.34	cc	Vs
Porosity, n	=	***31.79***	*%*	

DEGREE OF SATURATION =
(Dry Density*moisture*Gs)/(Gs*62.4-Dry Density)*100%

Dry Density	=	116.16	pcf
Moisture	=	0.161	dec
Spec. Gravity	=	2.73	
Saturation	=	***94.21***	*%*

PORE VOLUME = Vt - Vs = Tot.. Volume - Volume of Solids

Vt	=	403.69	cc
Vs	=	275.34	cc
Pore Volume	=	***128.347***	*cc*

VOLUMETRIC WATER = Tot. Vol. of Water / Total Volume

VOLUMETRIC AIR = Tot. Vol. of Air/ Total Volume

SUMMARY OF RESULTS

Wet Density	=	***134.86***	*pcf*
Dry Density	=	***116.16***	*pcf*
Moist. Content	=	***16.10***	*%*
Void Ratio	=	***0.4661***	
Porosity	=	***31.79***	*%*
Saturation	=	***94.21***	*%*
Pore Volume	=	***128.35***	*cc*
Volumetric Water	=	***29.98***	*%*
Volumetric Air	=	***1.81***	*%*

Reference: Laboratory Soils Testing; EM 1110-2-1906; Appendix II, "Unit Weight, Void Ratio, Porosity and Degree of Saturation"

JLT *Laboratories, Inc.*

SUMMARY OF FLEX WALL PERMEABILITY TEST RESULTS

ASTM D-5084 (Method A)

JLT

Client	:	Parsons Engineering Science	Date	:	03-21-02
Project Location	:	939 E. River Road, Rossford, Ohio	Job No.	:	02LS038.08
Sample Number	:	ST-1 at 5 to 7 feet	Tested By	:	MLB/DB
Site Number	:	SSA-3642	Checked By	:	JB
Description	:	Sandy silty CLAY (CL-ML)			
Permeant Fluid	:	De-Aired Water	Spec. Gravity	:	2.73 Computed

Physical Property Data

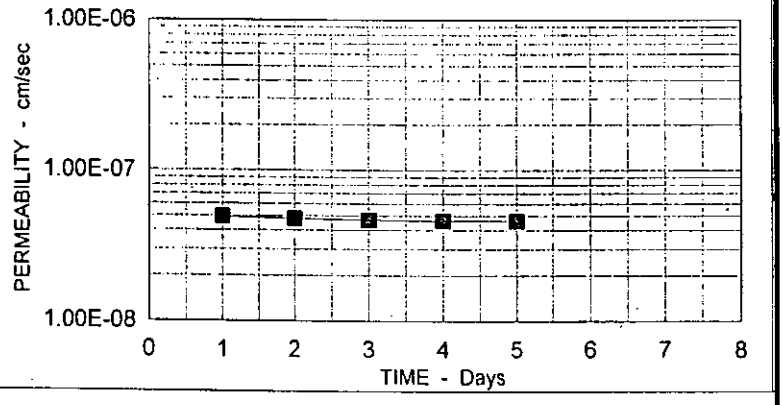
Initial Height (in)	:	4.00	Final Height (in)	:	3.99
Initial Diameter (in)	:	2.80	Final Diameter (in)	:	2.79
Initial Wet Weight (g)	:	872.70	Final Wet Weight (g)	:	873.90
Wet Density (pcf)	:	134.86	Wet Density (pcf)	:	136.75
Moisture Content %	:	16.10	Moisture Content %	:	16.24
Dry Density (pcf)	:	116.16	Dry Density (pcf)	:	117.64
Initial Void Ratio	:	0.4665	Final Void Ratio	:	0.4480
Saturation ,%	:	94.2	Saturation ,%	:	99.0

Test Parameters

Fluid		: De-Aired Water	**Effective**		
Cell Pressure	(psi)	: 65.00	**Confining Pressure (psi)**	:	**10**
Head Water	(psi)	: 56.80	Gradient	:	24.90
Tail Water	(psi)	: 53.20			

Permeability Input Data

Flow, Q	(cc)	:	5.50
Length, L	(in)	:	3.99
Area, A	(sqin)	:	6.10
Head, h	**(psi)**	**:**	**3.60**
Time, t	(min)	:	2015.00
Temp, T	(Deg C)	:	21.0



Computed Permeability

PERMEABILITY, K = 4.63E-08 (cm/sec) at 20 Degrees C

ATTERBERG LIMITS DETERMINATION

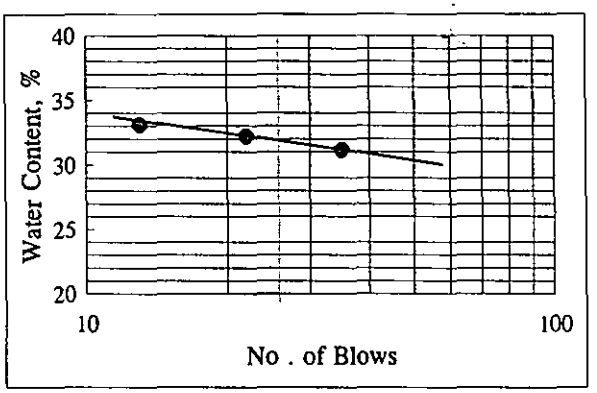
ASTM D-4318

JLT

CLIENT:	Parsons Engineering Science	JOB No.:	02LS038.08
PROJECT:	939 East River Road, Rossford, Ohio	DATE OF TEST	03/21/02
	SSA No. 3642	TESTED BY:	DB
SAMPLE ID:	MW-6 at 19 to 21 feet		
Tube Type :	30 inch	CHECKED BY:	JB

LIQUID LIMIT DETERMINATION

Can No.	AT-78	AT-11	AT-56		
Wt. of wet soil + can, g	15.7844	13.2648	12.7846		
Wt. of dry soil + can, g	12.9806	11.0164	10.7706		
Wt. of Can	4.2757	4.2254	4.3050		
Wt. of dry soil, g	8.7049	6.7910	6.4656		
Wt. of Moisture, g	2.8038	2.2484	2.0140		
Water content, %	32.21	33.11	31.15		
No. of blows	22	13	35		



LIQUID LIMIT = 32
PLASTIC LIMIT = 19
PLASTICITY INDEX = 13

PLASTIC LIMIT DETERMINATION

Can No.	AT-18	AT-2			
Wt. of wet soil + can, g	13.0400	12.7651			
Wt. of dry soil + can, g	11.6377	11.4303			
Wt. of Can, g	4.2642	4.2954			
Wt. of dry soil, g	7.3735	7.1349			
Wt. of Moisture, g	1.4023	1.3348			
Water content, %	19.02	18.71			
Plastic Limit	19				

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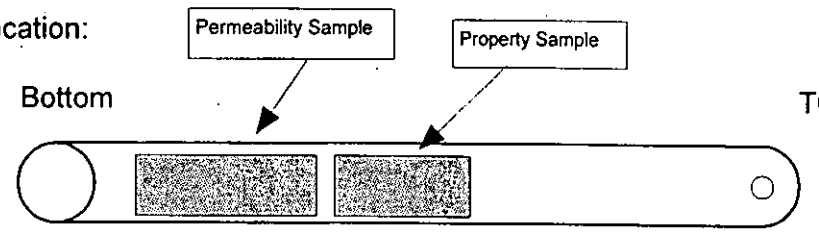
DENSITY AND MOISTURE OF TUBE SAMPLES

JLT

Client:	Parsons Engineering Science	Job No. :	02LS038.08
Project:	939 E. River Rd, Rossford, Ohio	Date :	03/20/02
Site ID :	SSA No. 3642	Perf'd By :	DB/RO
Tube ID:	MW-6 at 19 to 21 feet	Chk'd By :	JB

Sample Location:



Moisture - Density Determination

Tare ID	B-70	
Section Length :	5.00	inches
Inside Diameter of Sample:	2.80	inches
Wt. of Wet Soil + Tube + Tare	1535.1	grams
Wt. of Dry Soil + Tube + Tare	1379.0	grams
Weight of Tube Section only	384.1	grams
Wt. of Tare only	8.5	grams
Weight of Wet Soil only	1142.5	grams
Weight of Dry Soil Only	986.4	grams
Weight of Water in Sample	156.1	grams
Moisture Content	***15.83***	***%***
Bulk Wet Density:	***141.2***	***pcf***
Bulk Dry Density :	***121.9***	***pcf***

Secondary Moisture Determination from Trimmings

Tare ID	B73	
Wt. of Wet Soil + Tare	201.9	grams
Wt. of Dry Soil + Tare	174.9	grams
Wt. of Tare	8.4	grams
Weight of Water	27.0	grams
Weight of Dry Soil	166.5	grams
Moisture Content	16.22	%

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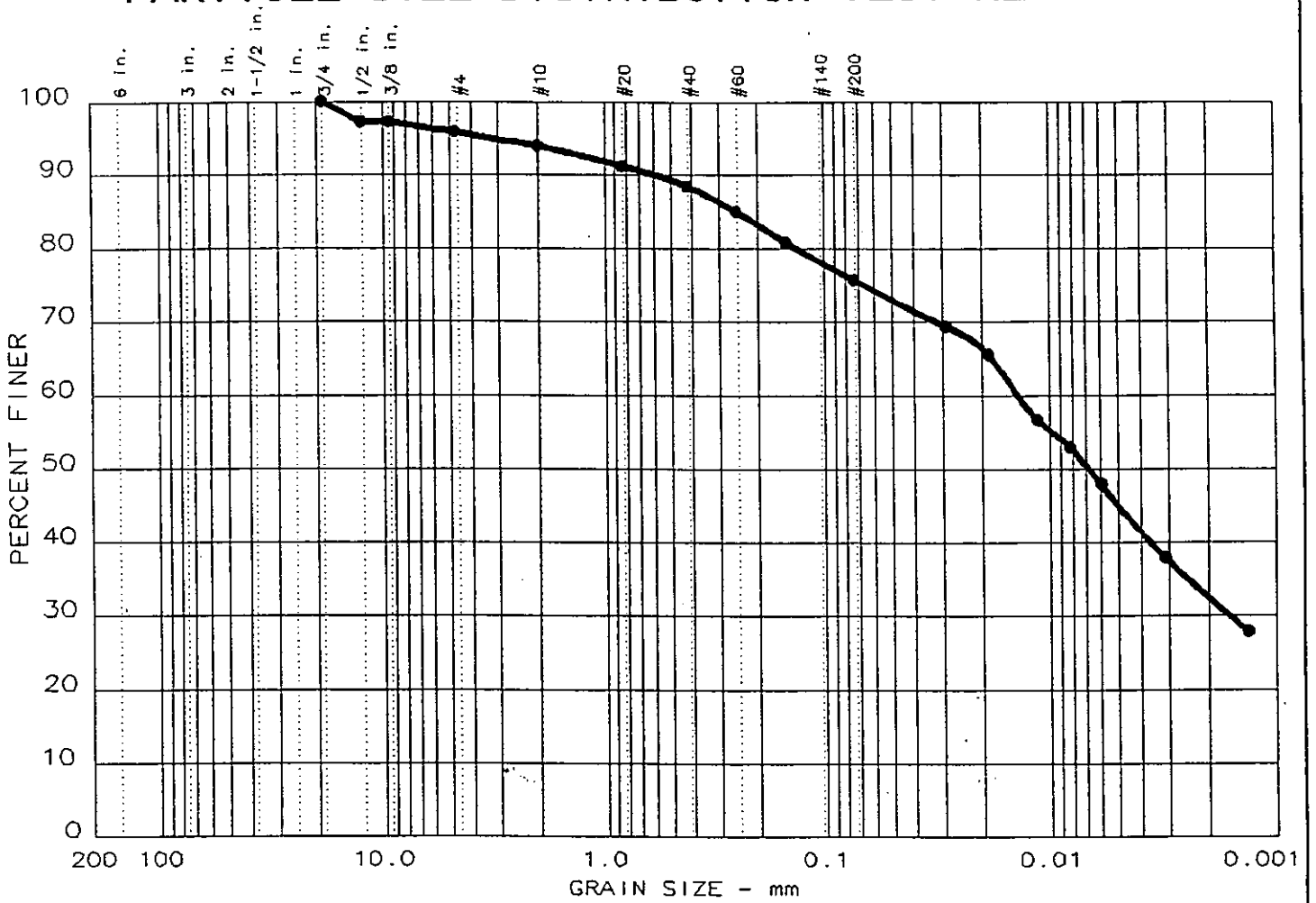
PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY	USCS
●	6	0.0	4.2	20.2	43.3	32.3	CL

SIEVE inches size	PERCENT FINER ●		
0.75	100.0		
0.5	97.2		
0.375	97.2		
	GRAIN SIZE		
D_{60} D_{30} D_{10}	0.00		
	COEFFICIENTS		
C_c C_u			

SIEVE number size	PERCENT FINER ●		
4	95.8		
10	93.8		
20	91.1		
40	88.3		
60	84.9		
100	80.8		
200	75.6		

Sample information:
● 939 East River Road
MW-6 @ 19-21 ft SSA3642
Rossford, Ohio

Remarks:
LL=32, PL=19, PI=13
As-recv'd M/C = 16.22%
ASTM D-422/D-4318/D-2216

JLT Laboratories, Inc.

Project No.: 02LS038.08
Project: Parsons Engineering Science

Date: 3/21/02 Data Sheet No. 1

SPECIFIC GRAVITY OF SOIL SOLIDS

ASTM D-854 - Latest Revision 2001

JLT

Client:	Parson Engineering Science	**Job Number:**	02LS038.08
Project:	939 E. River Road, Rossford, Ohio SSA:3642	**Date:**	03/21/02
Material:	Sandy silty CLAY (CL)	**Tested By:**	DB/MLB
Sample I.D.:	MW-6 at 19 to 21 feet	**Checked By:**	JB

Method :	Procedure B (Dry)		
Fluid :	De-aired Distilled Water	**Temperature (deg C) (t):**	21.8
Particle Size :	Minus No. 4 Sieve	**Correction Factor (1) :**	0.99961
		Density Correction Factor (1) :	0.99782
		Air Removal Method :	Vacuum

	REPLICATE			
Description	***1***	***2***	***3***	**Average**
Wt. flask + water + soil = Mpws	391.78	392.34	391.13	
Wt. flask + water = Mpw	344.20	344.80	343.60	
Wt. flask + water = Mpw at 20 deg. C	343.45	344.05	342.85	
Evap. dish no.	R-4	R-9	R-2	
Wt. of evap. dish	33.77	33.69	33.84	
Wt of dish +dry soil	108.77	108.69	108.84	
Wt. of dry soil = Ms	75.00	75.00	75.00	
Gs = Ms / (Mpw-(Mpws-Ms)) at t	**2.735**	**2.731**	**2.730**	
Specific Gravity at 20 deg. C	**2.73**	**2.73**	**2.73**	***2.73***

(1) Correction Factors derived from Table 2 of ASTM

JLT Laboratories, Inc. 938 S. Central Ave, Canonsburg, PA 15317 * Tel: (724) 746-4441 / (724) 745-4261

PHYSICAL PROPERTY CALULATIONS FOR TUBE SAMPLES
Corps of Engineers Procedures

JLT

Client	: Parsons Engineering Science	Date	: 03/21/02
Project	: 939 E. River Road, Rossford, Ohio	Project No.	: 02LS038.08
Sample No	: MW-6 at 19 to 21 feet	Perf'd By	: DB
Site No	: SSA - 3642	Chk'd By	: JB
Description	: Sandy silty CLAY (CL)		

UNIT WEIGHT CALCULATION

"e" Height	=	4.00	in	
"e" Diameter	=	2.80	in	
Area	=	6.1575	sq in	
Volume	=	24.63	cu in	
Volume	=	403.69	cc	Vt
"e" ***Moisture***	=	***16.35***	*%*	
Moisture	=	0.164	dec	
"e" Wet Weight	=	881.6	grms	
Dry Weight	=	757.7	grms	Ws
Wet Density	=	***136.2***	*pcf*	
Dry Density	=	***117.1***	*pcf*	

"e" = Data entry location (Total of 5)

VOID RATIO

Dry Weight	=	757.71	grms	Ws
"e" ***Specific Gravity***	=	***2.73***		***Gs***
Total Volume	=	403.69	cc	Vt
Volume of Solids	=	277.55	cc	Vs= Ws/Gs
Void Ratio	=	***0.4545***		***(V t- Vs) / Vs***

Specific Gravity : Assumed [ ] Computed [X]

POROSITY = (V t- Vs) / Vt * 100%

Total Volume	=	403.69	cc	Vt
Volume Solids	=	277.55	cc	Vs
Porosity, n	=	***31.25***	*%*	

DEGREE OF SATURATION =
(Dry Density*moisture*Gs)/(Gs*62.4-Dry Density)*100%

Dry Density	=	117.09	pcf
Moisture	=	0.164	dec
Spec. Gravity	=	2.73	
Saturation	=	***98.13***	*%*

PORE VOLUME = Vt - Vs = Tot., Volume - Volume of Solids

Vt	=	403.69	cc
Vs	=	277.55	cc
Pore Volume	=	***126.136***	*cc*

VOLUMETRIC WATER = Tot. Vol. of Water / Total Volume

VOLUMETRIC AIR = Tot. Vol. of Air/ Total Volume

SUMMARY OF RESULTS

Wet Density	=	***136.24***	*pcf*
Dry Density	=	***117.09***	*pcf*
Moist. Content	=	***16.35***	*%*
Void Ratio	=	***0.4545***	
Porosity	=	***31.25***	*%*
Saturation	=	***98.13***	*%*
Pore Volume	=	***126.14***	*cc*
Volumetric Water	=	30.69	*%*
Volumetric Air	=	***0.56***	*%*

Reference: Laboratory Soils Testing; EM 1110-2-1906; Appendix II, "Unit Weight, Void Ratio, Porosity and Degree of Saturation"

JLT *Laboratories, Inc.*

SUMMARY OF FLEX WALL PERMEABILITY TEST RESULTS

ASTM D-5084 (Method A)

JLT

Client	:	Parsons Engineering Science	Date	:	03-21-02
Project Location	:	939 E. River Road, Rossford, Ohio	Job No.	:	02LS038.08
Sample Number	:	MW-6 at 19 to 21 feet	Tested By	:	MLB/DB
Site Number	:	SSA-3642	Checked By	:	JB
Description	:	Sandy silty CLAY (CL)			
Permeant Fluid	:	De-Aired Water	Spec. Gravity	:	2.73 Computed

Physical Property Data

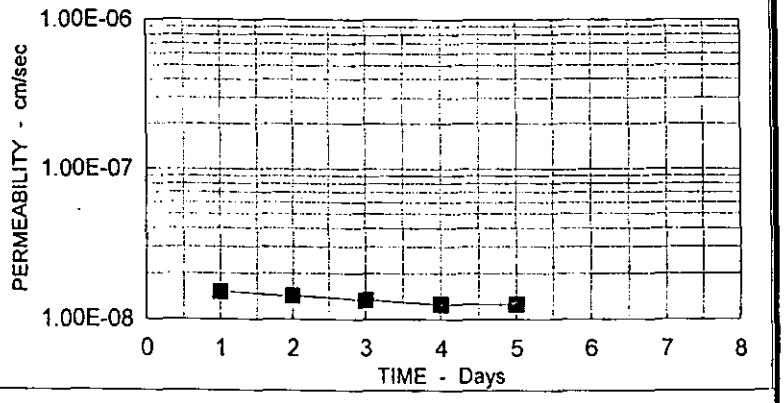
Initial Height (in)	:	4.00	Final Height (in)	:	4.00
Initial Diameter (in)	:	2.80	Final Diameter (in)	:	2.80
Initial Wet Weight (g)	:	881.60	Final Wet Weight (g)	:	884.10
Wet Density (pcf)	:	136.24	Wet Density (pcf)	:	136.62
Moisture Content %	:	16.35	Moisture Content %	:	16.68
Dry Density (pcf)	:	117.09	Dry Density (pcf)	:	117.09
Initial Void Ratio	:	0.4548	Final Void Ratio	:	0.4548
Saturation ,%	:	98.1	Saturation ,%	:	100.1

Test Parameters

Fluid	:	De-Aired Water	**Effective**		
Cell Pressure (psi)	:	65.00	**Confining Pressure (psi)**	:	**10**
Head Water (psi)	:	56.80	Gradient	:	24.84
Tail Water (psi)	:	53.20			

Permeability Input Data

Flow, Q	(cc)	:	1.50
Length, L	(in)	:	4.00
Area, A	(sqin)	:	6.16
Head, h	**(psi)**	**:**	**3.60**
Time, t	(min)	:	2018.00
Temp, T	(Deg C)	:	21.0



Computed Permeability

PERMEABILITY, K = 1.25E-08 (cm/sec) at 20 Degrees C

02LS0388.08

Geotechnical Sample Chain-of-Custody/Test Plan

TO: **J&L Laboratories**
938 South Central Ave
Canonsburg, PA 15317
Attn: Jack Boschuk (724) 746-4441

From: Parsons Engineering Science Inc.
19101 Villaview Rd
Cleveland, Ohio 44119
Contact: Adam Tucker (216) 486-9005 Fax (216) 486-6119

Sample Site: **SSA # 3642** (939 E. River Road, Rossford, Ohio)
Parsons Job # 741479.00320

Sample ID	Sample Date	Container	Required Tests	Method
ST-1 (5-7')	3/11/2002	30" Shelby	Atterberg Limits	D-4318
			USCS classification	D-2487
			Dry bulk density	NA
			Grain size	D-422
			Specific gravity	D-854
			Moisture content	D-2216
			Total porosity	NA
			Volumetric air content	NA
			Volumetric water content	NA
			Vertical hydraulic conductivity	D-5084
MW-6 (19-21')	3/11/2002	30" Shelby	Atterberg Limits	D-4318
			USCS classification	D-2487
			Dry bulk density	NA
			Grain size	D-422
			Specific gravity	D-854
			Moisture content	D-2216
			Total porosity	NA
			Volumetric air content	NA
			Volumetric water content	NA
			Vertical hydraulic conductivity	D-5084

Relinquished by: [signature] 3/14/02 4:00 PM

Received by: Regina D. Osko 3/15/02

Report to:

8770081-0

SITE ASSESSMENT

SPEEDWAY SUPERAMERICA LLC. UNIT #3642
939 EAST RIVER ROAD
ROSSFORD, OHIO

Prepared For:

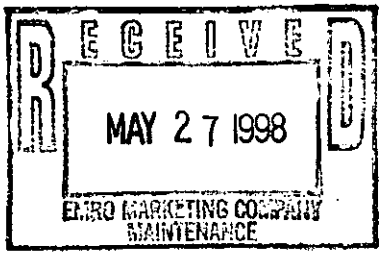
SPEEDWAY SUPERAMERICA LLC.
P.O. Box 1500
Springfield, Ohio 45501

MAY 1998

Prepared By:

PARSONS ENGINEERING SCIENCE
19101 Villaview Road, Suite 301
Cleveland, Ohio 44119

Parsons ES Job No. 732903



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D. Laboratory Report - Groundwater
E. BUSTR Site Feature Scoring System (SFSS) Chart and Justification

INTRODUCTION

Parsons Engineering Science (Parsons ES) was retained by Speedway SuperAmerica LLC., Inc. (Speedway) to conduct a site assessment at the Speedway facility in Rossford, Ohio. The site is located at 939 East River Road in Rossford, Ohio (Figure 1). The purpose of this investigation was to determine whether the subsurface soils and groundwater at the site are impacted with hydrocarbon constituents in excess of the site's Category 2 Action Levels. The objectives were approached through the analysis of soil samples obtained from two soil borings (ES-1 and ES-2) completed on 11 March and 12 March 1998 by Northcoast Drilling Services, Inc., under Parsons ES supervision (Figure 2). The soil boring locations were positioned around the dispenser islands and near the sewer lines where hydrocarbons would most likely be present or would have migrated. Results of a previous investigation completed during a site assessment conducted in July 1997 by ATC Associates, Inc. (ATC) were also included in this report.

BACKGROUND INFORMATION

Facility Description

The Speedway facility is located in Rossford, Ohio (Wood County). This active gasoline retail facility is on the northeast corner of the intersection of East River Road and Rossway Road. Land use in the vicinity is both residential and light commercial. Regional topography slopes to the northwest. The underground storage tank (UST) system consists of one 8,000 gallon UST, two 6,000 gallon UST and two dispenser islands. All USTs at the site contain gasoline.

Water, natural gas, storm and sanitary sewer utilities that supply the site are located below ground. Telephone and electric service are supplied by overhead lines. Potable water is supplied by the City of Toledo which draws water from Lake Erie.

Previous Investigations

A UST dispenser and line closure was conducted by ATC Associates, Inc. (ATC) in July 1997. One used oil UST and a gasoline system consisting of dispensers and associated piping were also removed. A site assessment was conducted to evaluate a suspected gasoline release at the site. Three soil borings were advanced at the site, one of which was completed as monitoring

well MW-1. Results of the site assessment indicated soil and groundwater samples were below the Category 2 Action Levels for BTEX and TPH. Soil boring logs and laboratory data have been included in this report.

Local Water Resources and Sources of Supply

The Ohio Department of Natural Resources (ODNR), Division of Water, has indicated that there is one known potable water well within a one-quarter mile radius of the site. Well #362553 is located within 300 feet of the site on the properties north of the site. The well is cased in limestone bedrock and had a static depth to water on the date of installation of 75 feet. The current status of the well is unknown. Drilling logs obtained from ODNR for the wells within a one-half mile radius are included in Appendix A.

Regional Geology

The site is located in the glaciated Lake Erie Plain of Northwestern Ohio. The regional geology consists of lake deposits of silty glacial till. The underlying bedrock is anticipated to be present at 60 to 65 feet below surface and consists of dolomite of the Monroe Formation (White, 1982).

Regional Hydrogeology

Regionally, the subject site is located in an area where the highest water yields are associated with the carbonate bedrock. Water production yields of 100 to 500 gallons per minute have been developed in local water wells drilled from 205 to 453 feet below. Water hardness and hydrogen sulfide content generally increase rapidly with depth. Supplies sufficient for domestic use can often be obtained at depths less than 100 feet below grade (Hallfrisch, 1986). Regional groundwater flow based on surface topography is to the northwest.

INVESTIGATIVE METHODS

Soil Boring and Field Screening

Evaluation of subsurface conditions was conducted by Parsons ES on 11 March and 12 March 1998. Two soil borings were advanced at the site by Northcoast Drilling Service, Inc. under the supervision of an Parsons ES geologist. The two borings were advanced using 4.25--inch (I.D.) hollow-stem augers.

Soil samples were collected with a 2-inch diameter, 24-inch long, split-spoon sampling device using the Standard Penetration Test Method (ASTM Method D-1586). Soil samples were collected continuously throughout the soil section encountered in the borings. Blow counts for each sampled interval are recorded in the Penetration Resistance column on the soil boring logs (Appendix B). Soil samples from the split-spoons were collected and equally divided between two clean glass jars. One jar was secured with a screw-on Teflon™-lined lid, and stored on ice in a cooler for possible laboratory analysis. The other jar was sealed with aluminum foil and secured with a screw-on lid. This jar was held for a minimum of 10 minutes before scanning the headspace for volatile organic compounds (VOCs).

Soil samples were field screened for VOCs using a Photovac Microtip™ photoionization detector (PID). The PID was calibrated with a 100 ppm isobutylene-in-air commercial gas standard, and used in accordance with the manufacturer's operating instructions. The headspace above each sample was scanned for VOCs by piercing the aluminum foil seal with the PID probe, and recording the maximum observed reading in parts per million (ppm) (Table 1).

The undisturbed sample from each boring (unsaturated zone) corresponding to the highest measured VOC reading was selected for laboratory analysis. A soil sample from the bottom of soil boring ES-1 was also selected for laboratory analysis. The samples were placed in a cooler with ice, and transported to IH & Environmental Health Laboratory in Monroeville, Pennsylvania under chain-of-custody procedures. The soil samples from each boring were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW-846 Method 8020, and total petroleum hydrocarbons (TPH) by EPA Method 8015 modified for gasoline. The results of the

laboratory analysis have been summarized in Table 2, and the complete laboratory report has been included as Appendix C.

The field geologist described each sample according to the ES Standard Visual Manual soil classification scheme to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, and soil type for each split-spoon sample is recorded on the soil boring log in Appendix B. Each soil sample was also carefully examined evidence of petroleum hydrocarbons.

All tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse followed by a final rinse with methanol. The equipment was allowed to air dry prior to reuse. Drilling implements, such as the auger flights and center bit, were steam cleaned before beginning each boring.

Stockpiled Auger Cuttings

The auger cuttings and debris accumulated during soil boring installation were placed in five closed top 55-gallon drums and labeled appropriately. The drums were staged onsite awaiting proper disposal.

HYDROGEOLOGICAL ASSESSMENT

Local Geology

Materials encountered in the soil borings consisted of tight silty clays throughout the length of the boring. Trace pebbles were observed in the silty clays from approximately 11 to 22 feet.

Local Hydrogeology

Groundwater was not encountered in either of the soil borings during this site investigation. However, one monitoring well (MW-1) was installed during the previous investigation in the southeast portion of the site. Static groundwater level in MW-1 was measured at 11.28 feet below surface grade on 15 July 1997 (ATC Associates, October 1997,

p. 13). Based on topography, groundwater flow appears to be toward the northwest. A groundwater surface map could not be constructed due to insufficient data with only one monitoring well onsite.

Bureau of Underground Storage Tank Regulations
Site Feature Scoring System (SFSS)

Pertinent information gathered during the site assessment indicated the Speedway SuperAmerica LLC. site located at 939 East River Road in Rossford, Ohio met the requirements to be classified under Category 2 Action Levels for TPH and BTEX in soils and groundwater. The Category 2 Target Action Levels for TPH and BTEX (soils and groundwater) as determined by the Ohio State Fire Marshal "scoring system" (OAC 1301:7-9-13) are listed below:

	Soil	Groundwater
Benzene	0.170 ppm	0.005 ppm
Toluene	7 ppm	1 ppm
Ethylbenzene	10 ppm	0.7 ppm
Xylenes	47 ppm	10 ppm
TPH (gasoline)	300 ppm	--
TPH (others)	642 ppm	--

The State Fire Marshal's SFSS Chart and justification for the referenced site is provided as Appendix E.

Soil Analysis

Results of the field screening for VOCs indicated the highest VOC value was exhibited by sample ES-2, 7 to 9 feet (1553 ppm). Other VOC values ranged from 0.2 ppm to 272 ppm (Table 1).

Laboratory analysis of the soil samples indicated the highest values of BTEX (Method 8020) were associated with soil sample ES-2, 7 to 9 feet (<0.125 ppm, 0.940 ppm, 1.500 ppm and 12.000 ppm, respectively). Soil sample ES-1, 9 to 11 feet exhibited benzene concentration at 0.004 ppm. All other soil samples from the two borings exhibited BTEX concentrations below method detection limits. All soil samples submitted for TPH by Method 8015 were below method detection limits with the exception of ES-2, 7 to 9 feet (260 ppm).

Results from the previous investigation completed by ATC Associates indicated a benzene concentration of 0.009 ppm in the sample from SB-1 26 to 28 feet. The sample from soil boring SB-2, 10 to 12 feet indicated a xylene concentration of 0.014 ppm. The soil sample from boring SB-3, 38 to 40 feet indicated a benzene concentration of 0.012 ppm. All other BTEX constituents in the samples from the three borings were below method detection limits. All soil samples submitted for TPH by Method 8015 were below method detection limits.

The Category 2 Action Levels for BTEX and TPH were not exceeded in soil samples from any of the borings. The results of the soil sample analysis are included in Table 2, and the complete laboratory report is included in Appendix C.

Groundwater Analysis

On 15 July 1998, a groundwater sample was collected by ATC from the newly installed monitoring well. Laboratory analysis of the sample indicated BTEX concentrations below method detection limits. Groundwater analytical results are summarized in Table 4, and the complete laboratory report is included in Appendix D.

REFERENCES

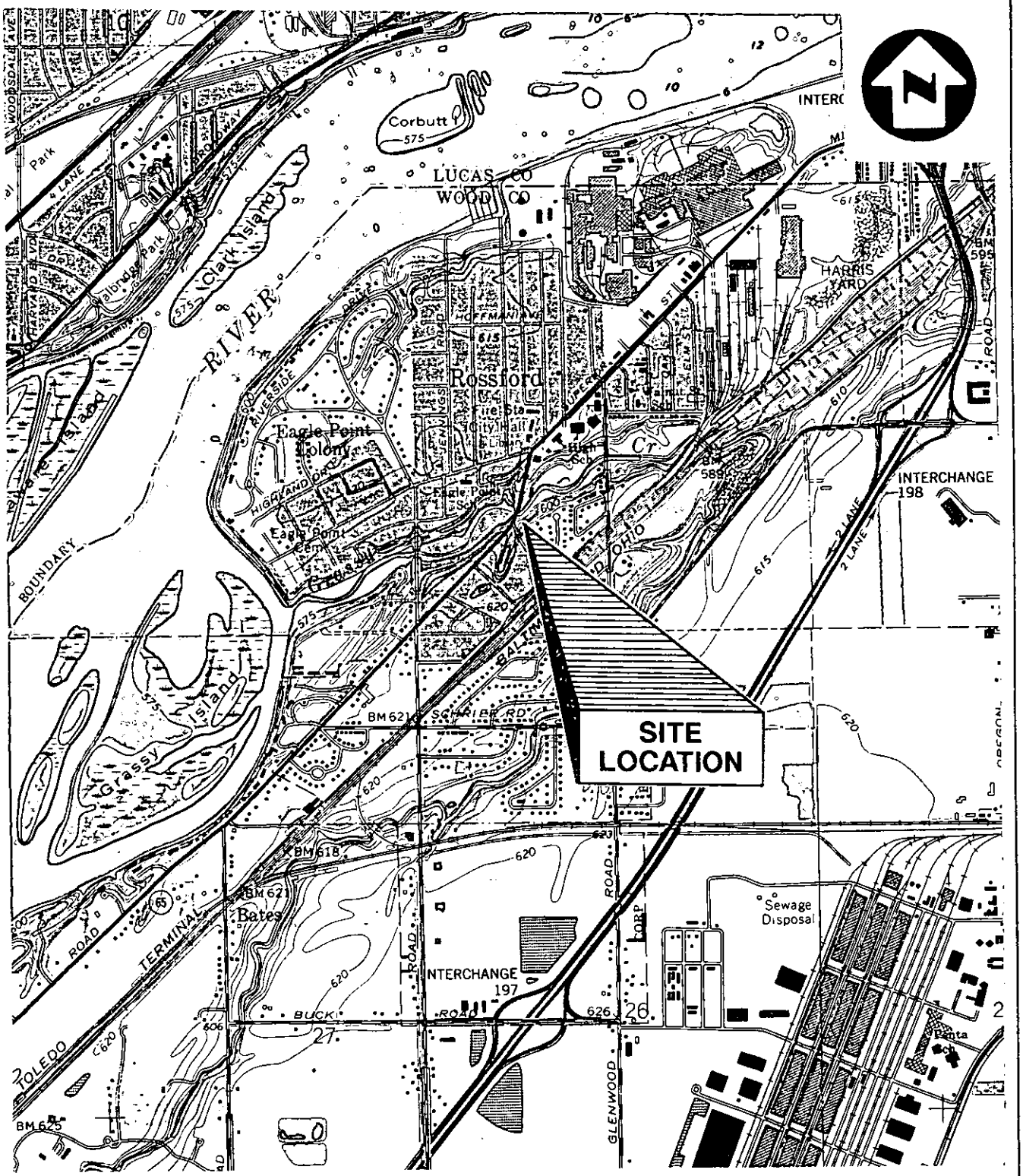
ATC Associates, Inc., October 1997. "UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment".

Hallfrisch, M. 1986. Groundwater Resources of Wood County, Ohio Department of Natural Resources, Division of Water.

White, G. W., 1982. "Glacial Geology of Northeastern Ohio". Department of Natural Resources, Division of Geological Survey, Bulletin 68.

United States Department of the Interior. Geological Survey, Walbridge Quadrangle 7.5 Minute Series (Topographic), 1965.

FIGURE 1



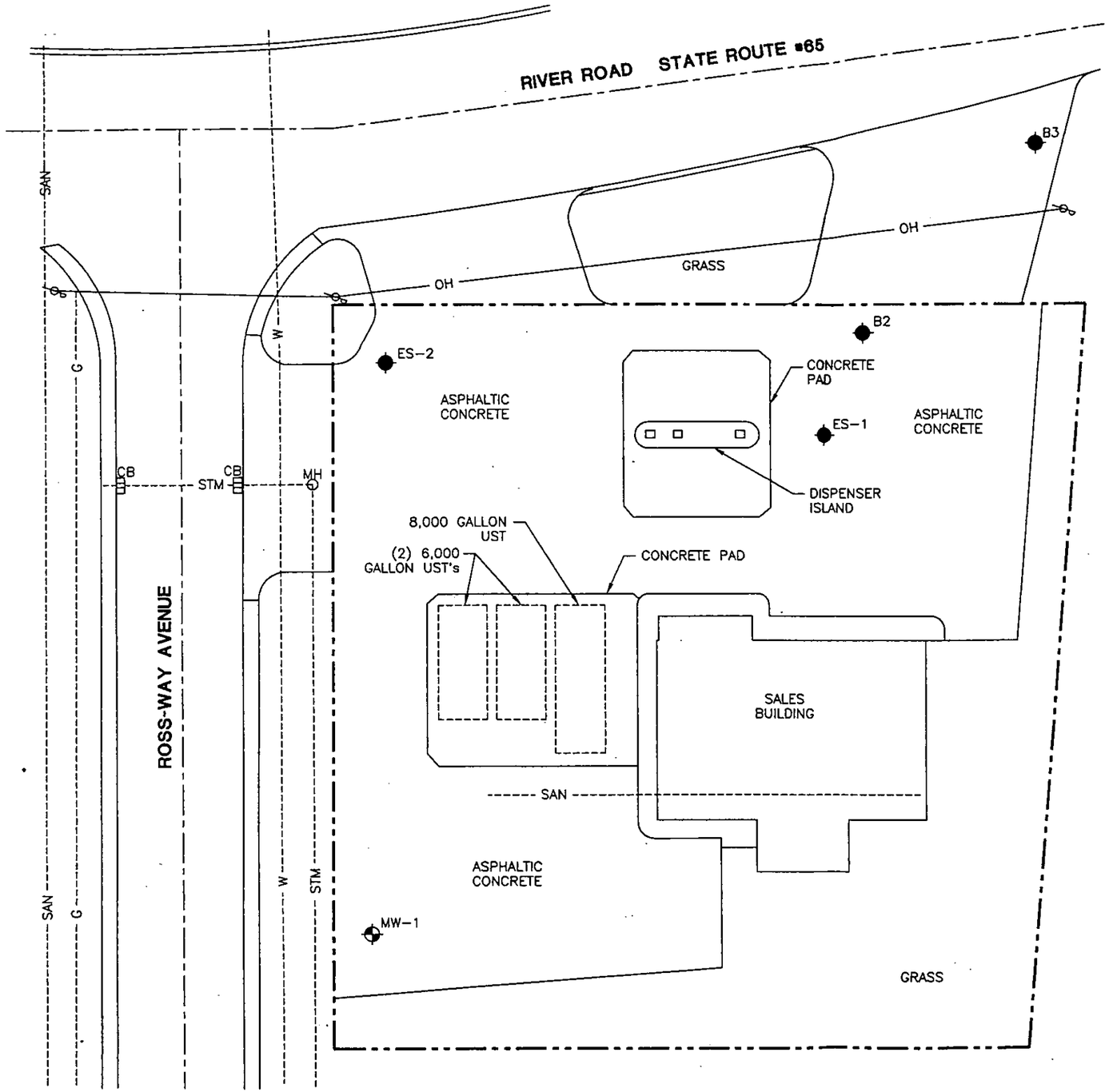
SITE LOCATION MAP

SPEEDWAY SUPERAMERICA LLC. UNIT #3642

939 EAST RIVER RD.
ROSSFORD, OHIO

PARSONS ENGINEERING SCIENCE, INC.

732903
4/3/98 TAM



N

20 10 0 20

SCALE IN FEET

LEGEND:

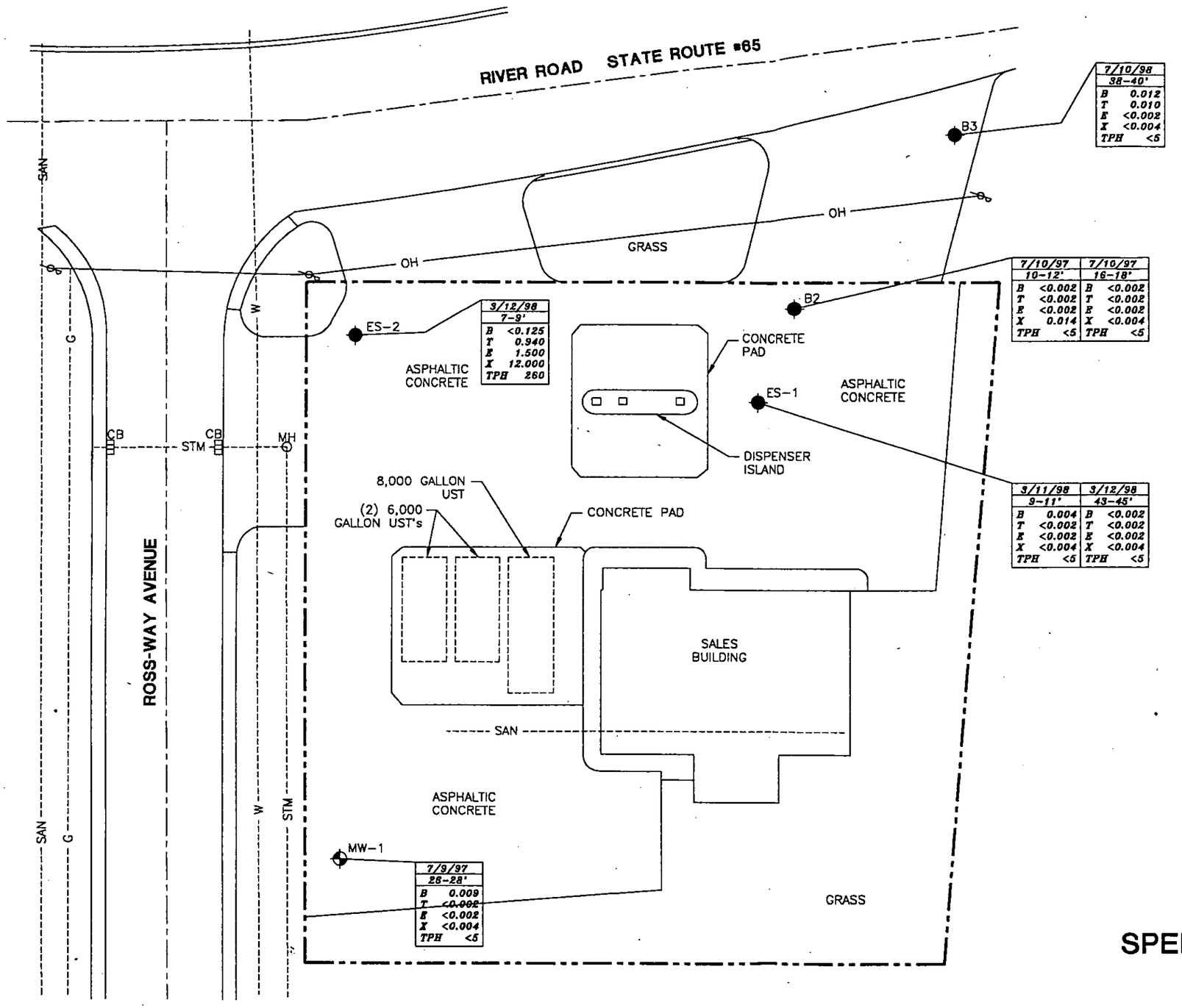
- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- ---OH--- OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SITE PLAN
SPEEDWAY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD

32903C01

PARSONS ENGINEERING SCIENCE, INC.

732903



LEGEND:

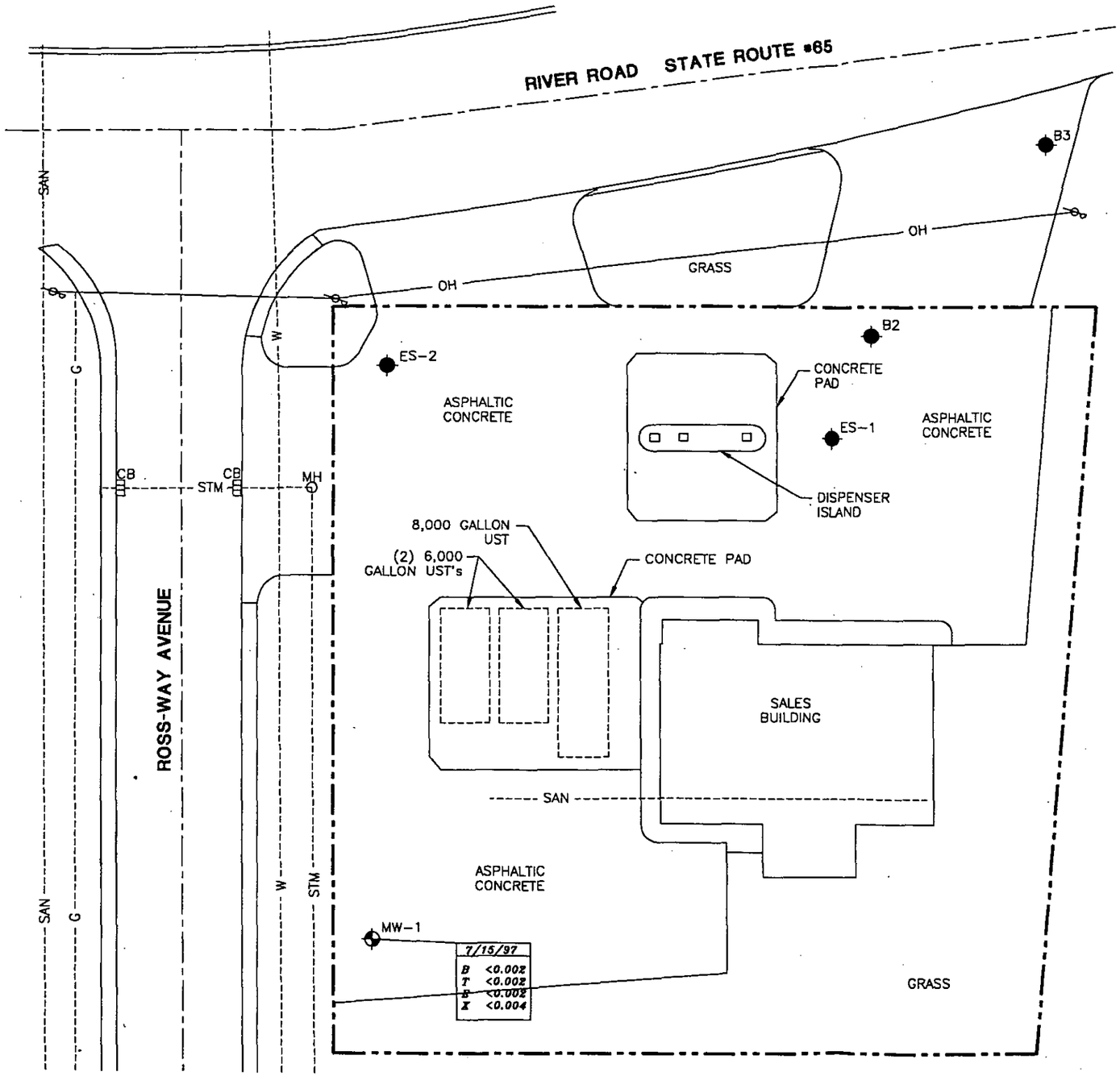
- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- ---OH--- OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
SAMPLE INTERVAL
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
TOTAL PETROLEUM HYDROCARBONS

CONCENTRATIONS IN PPM

BTEX AND TPH IN SOIL
SPEEDWAY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD

32903C01



N

20 10 0 20

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- ---E--- ELECTRIC AND TELEPHONE LINE
- ---G--- GAS LINE
- ---SAN--- SANITARY SEWER
- ---STM--- STORM SEWER
- ---W--- WATER LINE
- —OH— OVERHEAD LINES
- UTILITY POLE
- MH MANHOLE
- CB CATCH BASIN

SAMPLE DATE
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES

CONCENTRATIONS IN PPM

BTEX IN GROUNDWATER
SPEEDWAY SUPERAMERICA LLC.
UNIT #3642
939 EAST RIVER ROAD

TABLE 1

RESULTS OF VOC FIELD SCREENING - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

11 March and 12 March 1998

Sample Identification	Sample Interval (feet)	VOCs[1] (ppm)
ES - 1 (11 March 1998)	5-7	3.1
	7-9	65.4
	9-11 *	109
	11-13	12.6
	13-15	0.4
	15-17	0.2
	17-19	0.3
	19-21	0.3
	21-23	0.4
	23-25	0.6
	25-27	0.5
	27-29	1.2
	29-31	1.3
	31-33	1.4
	33-35	1.7
	35-37	1.7
	37-39	1.5
	39-41	1.8
	41-43	2.0
	43-45 *	2.0

(1) Volatile Organic Compounds (VOCs) were measured in the field with a Photovac Microtip™ photoionization detector (PID) calibrated with a commercial gas standard of 100 ppm isobutylene-in-air.

* Soil Sample selected for laboratory analysis.

TABLE 1 (continued)

RESULTS OF VOC FIELD SCREENING - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

11 March and 12 March 1998

Sample Identification	Sample Interval (feet)	VOCs[1] (ppm)
ES - 2	5-7	179
(12 March 1998)	7-9 *	1553
	9-11	272
	11-13	127
	13-15	30.6
	15-17	31.7

(1) Volatile Organic Compounds (VOCs) were measured in the field with a Photovac Microtip™ photoionization detector (PID) calibrated with a commercial gas standard of 100 ppm isobutylene-in-air.

* Soil Sample selected for laboratory analysis.

TABLE 2

LABORATORY ANALYSIS - SOILS

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

Sample Location	Sample Date	Sample Depth (feet)	Volatile Organic Compounds [1]				TPH [2] (ppm)
			Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	
ES-1	11-Mar-98	9 - 11	0.004	<0.002	<0.002	<0.004	<5
	12-Mar-98	43 - 45	<0.002	<0.002	<0.002	<0.004	<5
ES-2	12-Mar-98	7 - 9	<0.125	0.940	1.500	12.000	260
B-1 / MW-1	9-Jul-97	26-28	0.009	<0.002	<0.002	<0.004	<5
B-2	10-Jul-97	10-12	<0.002	<0.002	<0.002	0.014	<5
B-2	10-Jul-97	16-18	<0.002	<0.002	<0.002	<0.004	<5
B-3	10-Jul-97	38-40	0.012	0.010	<0.002	<0.004	<5
Category 2 Action Levels	--	--	0.170	7.000	10.000	47.000	300

(1) Analysis by EPA Method 8020.

(2) Total Petroleum Hydrocarbons (TPH modified for gasoline) by EPA Method 8015.

Note: Soil Borings B-1, B-2, and B-3 were advanced by ATC Associates, Inc.

TABLE 3

LABORATORY ANALYSIS - GROUNDWATER

SPEEDWAY SUPERAMERICA LLC.
Unit #3642
939 East River Road
Rossford, Ohio

Sample Location	Sample Date	Volatile Organic Compounds [1]			
		Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)
MW-1	15-Jul-97	<0.002	<0.002	<0.002	<0.004
Category 2 Action Levels	--	0.005	1.000	0.700	10.000

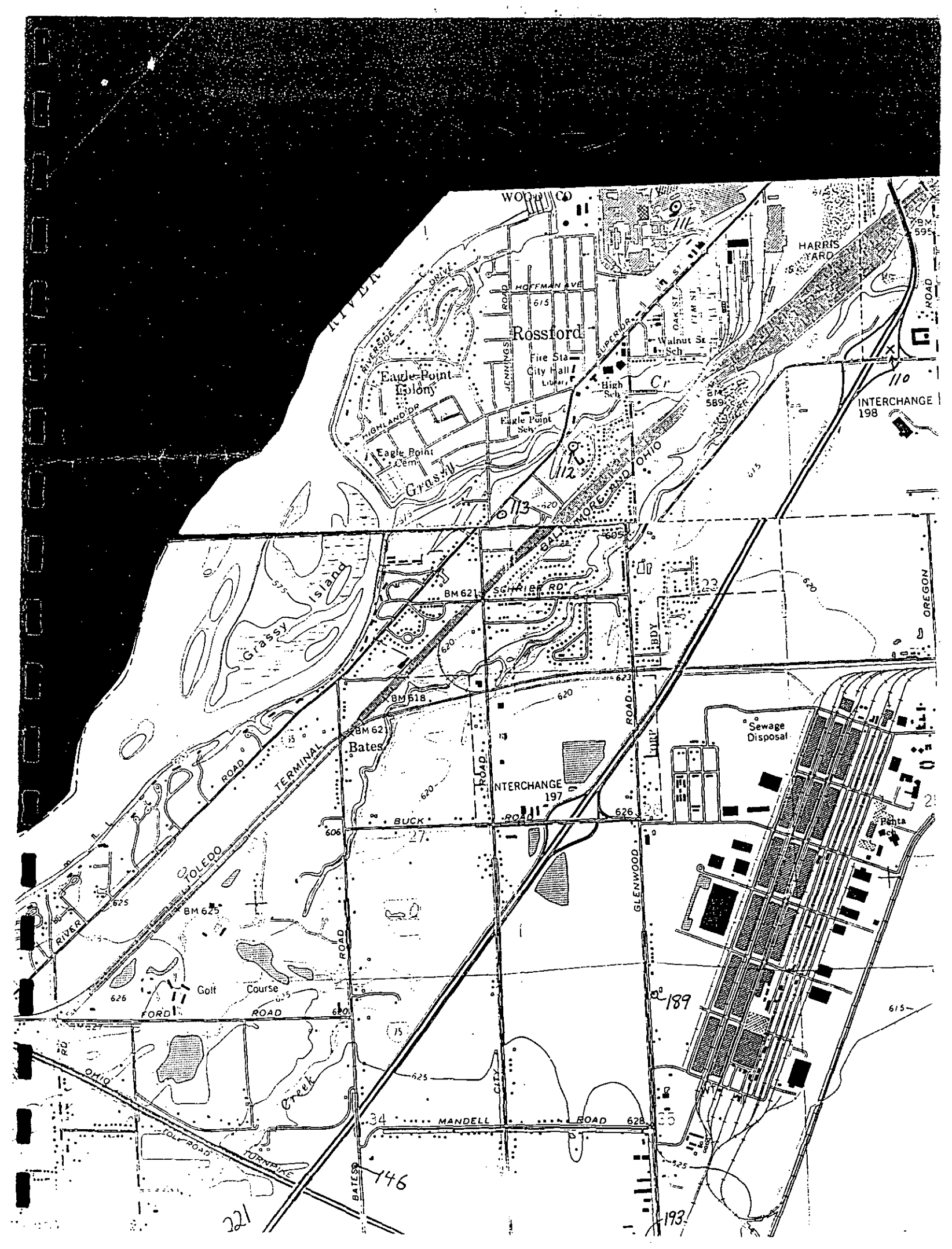
(1) Analysis by EPA Method 8020.

(2) Total Petroleum Hydrocarbons (TPH modified for gasoline) by EPA Method 8015.

Note: Sample collected by ATC Associates, Inc.

APPENDIX A

OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR)
WATER WELL LOGS


Rossford
Eagle Point Colony
Eagle Point Cem.
Grassy Island
Fire Sta
City Hall
Library
High Sch
Walnut St Sch
Eagle Point Sch
HARRIS YARD
INTERCHANGE 198
INTERCHANGE 197
Bates
Sewage Disposal
Golf Course
Penta Sch
BM 621
BM 618
BM 625
SCHRIER RD.
BUCK ROAD
FORD ROAD
MANDELL ROAD
TERMINAL ROAD
TOLEDO
BALTIMORE AND OHIO
OREGON
GLENWOOD
OHIO TURNPIKE
OHIO CITY
RIVER
Creek
146
189
193
221

ORIGINAL

LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohi

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4¼ Length of casing 81' 4"
Type of screen none Length of screen
Type of pump 1/2 H.P. Sub
Capacity of pump 15 G.P.M.
Depth of pump setting 120 ft.
Date of completion 11/30/1967

BAILING OR PUMPING TEST

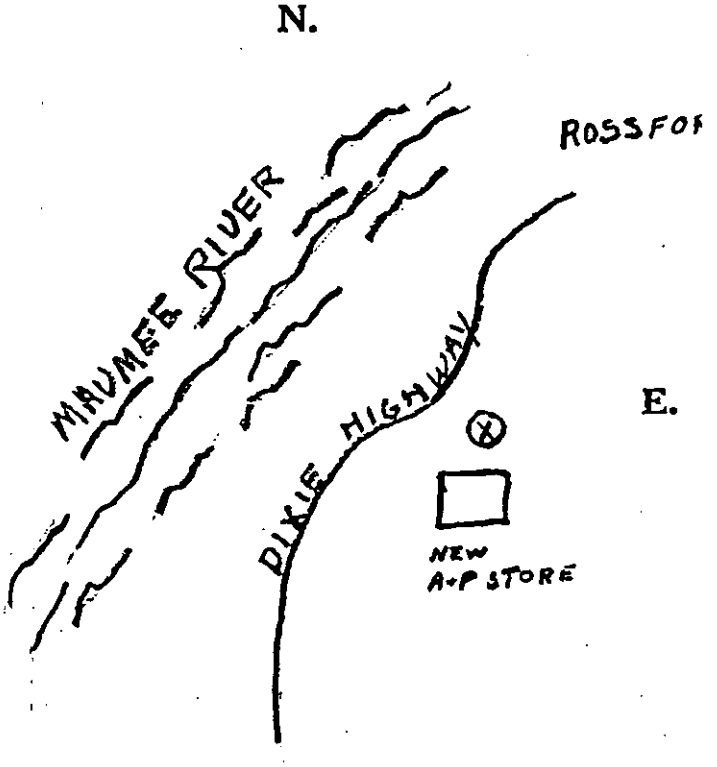
Pumping Rate 20 G.P.M. Duration of test 3 hrs.
Drawdown 10 ft. Date 11/21/1967
Static level-depth to water 75 ft.
Quality (clear, cloudy, taste, odor) clear
Pump installed by Larson Drilling & MAch. Inc.

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft.
Soft Blue Clay	35 ft.	65 ft.
Hard Pan	65 ft.	70 ft.
Soft Blue Clay	70 ft.	77 ft.
Broken Brown Lime	77 ft.	80 ft.
Hard Brown Lime	80 ft.	102 ft.
Hard Gray Lime	102 ft.	115 ft.
Light Brown Lime	115 ft.	130 ft.
Tan Brown Lime	130 ft.	161 ft.
Hard Brown Lime	161 ft.	166 ft.
Blueish Gray Lime Hard Traverse	166 ft.	191 ft.
Light Brown Lime	191 ft.	201 ft.

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Larson Drilling & Mach. Inc. Date 4/16/1968

Address 211 W. Sophia St. Maumee, Ohio Signed

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*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

WELL LOG AND DRILLING REPORT

EV-5-2723

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 238621

County Wood Township Ross Section of Township Lot #19

Owner Lewis Danford Address 1125 Elm Tree Rd. Rossford, Ohio

Location of property Lewis St, Rossford, Ohio

CONSTRUCTION DETAILS

Casing diameter 4¼" I.D. Length of casing 70'

Type of screen ..... Length of screen .....

Type of pump ¾ H.P. 2 stage Jet

Capacity of pump 170 G.P.H. at 120 ft.

Depth of pump setting 150 ft

Date of completion Nov. 27 - 1959

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test 2 hrs.

Drawdown 85 ft. Date Nov. 27, 1959

Developed capacity 480 G.P.H. at 150 ft.

Static level—depth to water 65 ft.

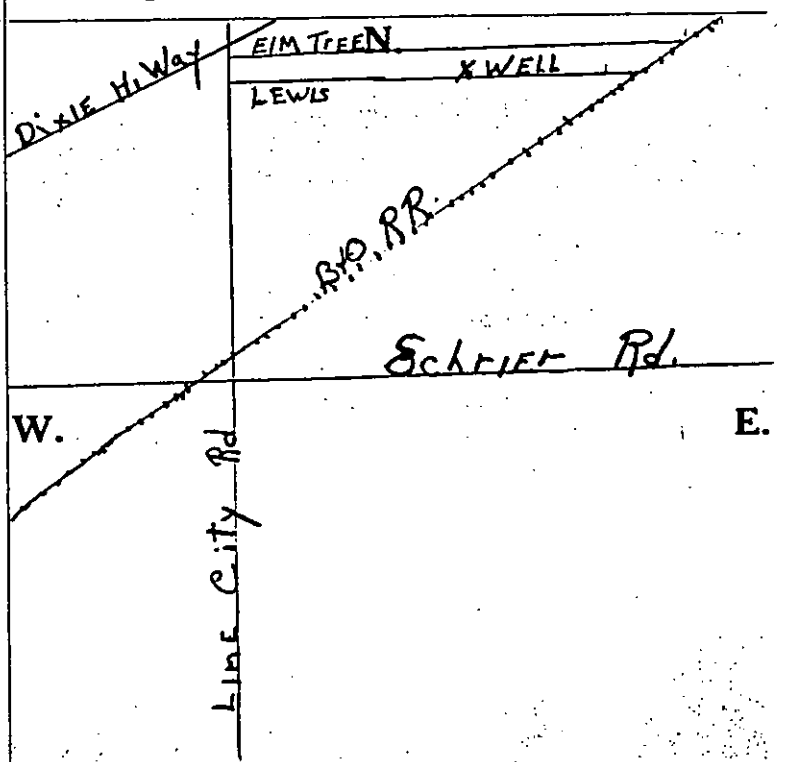
Pump installed by Wendell Bihn

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To ..... Ft.
Clay	0	65
LIME STONE	65	176

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Bihn's Well Drilling Date Nov. 27 1959

Address Walbridge Ohio Signed Wendell Bihn

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APPENDIX B

SOIL BORING LOGS

PARSONS
ENGINEERING SCIENCE

LOG OF BORING ES-1

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 11 March 1998	Weather	: Sunny, 20F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 3.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 5"	Scr. Length/slot	: NA

Well: ES-1
Elev.: NA

Depth in feet	Sample	Recovery %	BLOWS	PID (ppm)	DESCRIPTION	USCS
0					3" ASPHALT pavement.	
1					FILL material.	FL
2						
3						
4					Tan, moist, plastic, silty CLAY.	
5						
6	1	50%	3 4/5 7	3.1		CL
7						
8	2	75%	3 3/4 4	65.4		
9						
10	3	** 100%	2 3/5 7	109		
11						
12	4	100%	4 6/9 12	12.6	Brown, moist, very stiff, silty CLAY with trace fine gravel.	
13						
14	5	100%	7 13/13 21	0.4		
15						
16	6	100%	6 7/15 18	0.2		CL
17						
18	7	50%	15 15/18 20	0.3		
19						
20	8	100%	8 18/20 21	0.3		
21						
22	9	100%	17 20/22 25	0.4		
23						
24	10	100%	4 6/9 11	0.6	Dark gray, moist, plastic, soft, silty CLAY.	CL
25						

PID (ppm) scale: 0 55 110

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PARSONS
ENGINEERING SCIENCE

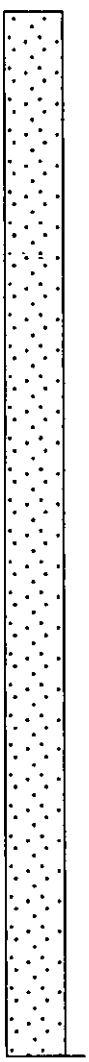
LOG OF BORING ES-1

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 11 March 1998	Weather	: Sunny, 20F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 3.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 5"	Scr. Length/slot	: NA

Well: ES-1
Elev.: NA

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	PID (ppm) 0 55 110	DESCRIPTION	GRAPHIC	USCS
25								
26	11	100%	6 11/13 11	0.5				
27								
28	12	100%	3 5/7 9	1.2				
29								
30	13	100%	7 9/10 10	1.3				
31								
32	14	100%	4 5/6 7	1.4				
33								
34	15	100%	9 9/8 9	1.7				
35								CL
36	16	100%	4 4/5 7	1.7				
37								
38	17	100%	3 4/4 4	1.5				
39								
40	18	100%	4 7/7 8	1.8				
41								
42	19	100%	5 5/6 8	2.0				
43								
44	20	** 100%	8 8/12 14	2.0				
45						End of boring at 45 feet.		
46								
47								
48								
49								
50								



** Sample submitted for laboratory analysis.

05-20-1998 a:\eriverrd\rossford\es01.bor

PARSONS
ENGINEERING SCIENCE

LOG OF BORING ES-2

Speedway SuperAmerica LLC.
939 East River Road
Rossford, Ohio
Unit #3642

Drilling Date	: 12 March 1998	Weather	: Partly cloudy, 15F
Drilling Company	: Northcoast Drilling	Geologist	: A. Tucker
Method	: 4.25" HSA	Sceen type/diam.	: NA
Hole Diameter	: 8"	Scr. Length/slot	: NA

Well: ES-2
Elev.: NA

Depth in feet	Samples	Recovery %	BLOWS	PID (ppm)	PID (ppm) 0 1600	DESCRIPTION	GRAPHIC	USCS
0						4" ASPHALT.		
1						GRAVEL subbase.		GW
2						Gray and olive, moist, silty CLAY. Fill material: bricks, wood fragments, etc..		
3								
4								
5								
6	1	100%	3 4/6 8	179				
7								
8	2	** 50%	3 6/8 6	1553				CL
9								
10	3	100%	2 3/4 5	272				
11								
12	4	100%	4 4/5 6	127				
13								
14	5	100%	2 2/3 4	30.6				
15								
16	6	100%	3 5/8 4	31.7		Dark gray, moist SILT with trace fine sand.		ML
17								
18								
19								
20								
21								
22								
23								
24								
25								

Bentonite grout

Auger Refusal at 15 feet, spoon to 17 feet.

** Sample submitted for laboratory analysis.

05-20-1998 a:\eriverrd\rossford\es02.bor

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E River Rd, Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9 1997 DATE FINISHED: Jul 9 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
0.0								
	1	-- -- 4 5	20	0		Asphalt and gravel fill.		
						(OH): Brown silty Clay, damp to moist.		
	2	4 6 8 7	25	0				
5.0	3	4 6 9 9	70	0		(OH): Brwon Clay with some rock fragments grading to silty/sandy near 11 feet, damp.		
	4	6 12 14 22	80	0				
	5	9 19 16 50/2	75	0				
10.0	6	9 11 21 28	80	0		(OH): Grey silty Clay, damp		
	7	5 8 11 14	80	0				
15.0	8	5 16 12 15	90	0				
	9	6 11 13 13	90	0				
	10	6 8 8 10	100	0.4				
20.0	11	12 19 19 14	100	0.4		(MH): Grey Silt, damp.		
	12	8 17 21 23	80	0		(MH): Brown-grey Silt, saturated		
25.0	13	9 13 12 10	85	0		(OH): Interbedded clayey Silt and silty Clay with thin zones of sandy saturated silt		
	14	6 8 10 9	90	2.9				
	15	8 15 14 17	80	2.5		(OH): Grey silty Clay, damp		
30.0								

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM.: 2 inch
CASING MATERIAL: PVC
SCREEN MATERIAL: PVC
SLOT SIZE: 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Environmental, Inc.

WELL LOG

BORING NO: SB-1/MW-1
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 9 1997 DATE FINISHED: Jul 9 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	WELL CONST	REMARKS
30.0	16	6, 11, 15, 19	80	1.7		(Continued from previous page) (OH): Grey silty Clay, damp.		
						(MH): Interbedded clayey Silt and sandy Silt, saturated.		
	17	6, 9, 5, 9	90	2.1				
35.0	18	6, 9, 12, 7	80	2.1		(OH): Grey clayey Silt and silty Clay with some sandy silt, saturated		
	19	6, 7, 9, 8	100	2.5				End of boring
	20	10, 9, 13, 12	100	2.5				End of sample depth.
40.0								
45.0								
50.0								
55.0								
60.0								

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

WELL CONSTRUCTION
WELL DIAM.: 2 inch
CASING MATERIAL: PVC
SCREEN MATERIAL: PVC
SLOT SIZE: 0.001
METHOD: HSA
MONITORING WELL INSTALLED UPON COMPLETION

OUTER CASING
GROUT
BENTONITE
SAND
SCREEN

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro
PROJECT LOCATION: 939 E River Rd, Rossford Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10 1997 DATE FINISHED: Jul 10 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0			Asphalt and gravel fill.	
	2	7, 9, 8, 7	30	0.4			
5.0	3	9, 11, 7, 10	0	NR		No recovery, rock in sample tube.	
	4	7, 7, 9, 8	50	3.4		(OL): Brown silty Clay with some gravel.	
	5	5, 6, 5, 9	0	NR			
10.0	6	7, 5, 6, 4	50	23.4			
	7	5, 7, 11, 17	50	2.5			
15.0	8	7, 11, 17, 19	90	2.1		(OL): Grey silty Clay with more silt and fine gravel.	
	9	7, 9, 11, 7	80	2.5			
	10	6, 11, 18, 17	80	2.1		(OL): Same as above with gravel more abundant.	
20.0	11	8, 11, 15, 11	80	1.2			
	12	9, 12, 15, 9	85	0.8			
25.0	13	7, 9, 14, 11	75	0.4		(CL): Brown-grey silty Clay, damp.	
	14	1, 10, 8, 8	70	0		(CL): Grey very silty Clay with some gravel, damp to moist.	
30.0	15	7, 9, 10, 7	80	0			

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-2
PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emrp
PROJECT LOCATION: 939 E River Rd Rossford, Oh DRILLING CONTRACTOR: Frontz
DRILLING MTHD: HSA SAMPLE MTHD: Continuous
DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	6 8 11 17	80	0		(Continued from previous page) (CL): Grey very silty Clay with some gravel, damp to moist.	
	17	6 5 7 8	100	0			
35.0	18	7 9 6 5	100	0		(CL): Grey soift Clay with silt, moist	
	19	5 7 6 5	100	0			
	20	5 4 4 4	100	0			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING: 42.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3

PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro

PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz

DRILLING MTHD: HSA SAMPLE MTHD: Continuous

DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER: Frontz INSPECTOR: Flinn

SURFACE ELEVATION: NA

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	LITHOLOGIC DESCRIPTION	REMARKS
0.0	1		0	NR		Asphalt and fill.	
	2	5, 7, 4, 6	50	0.4		(CL): Brown silty Clay, damp	
5.0	3	4, 6, 5, 7	50	0			
	4	4, 6, 8, 7	50	0			
	5	6, 5, 5, 5	0	NR			
10.0	6	1, 3, 2, 5	50	0		(CL): Brown-dark brown silty Clay, damp to moist.	
	7	2, 4, 6, 6	100	0.4			
15.0	8	6, 11, 9, 7	60	0.4			
	9	5, 7, 10, 8	60	0.4		(CL): Grey very silty Clay, damp-moist	
	10	5, 9, 11, 10	80	0.4		(CL): Brown silty Clay, damp Rocks at 26 Feet	
20.0	11	5, 7, 12, 14	70	0			
	12	5, 9, 21, 26	80	0			
25.0	13	7, 5, 13, 11	90	0			
	14	7, 9, 14, 13	50	0.4			
	15	5, 6, 9, 8	90	0.4		(CL): Grey Clay, damp-moist	
30.0							

BOTTOM OF TEST BORING: 40.00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

ATC Associates Inc.

BORING LOG

BORING NO: SB-3

PROJECT NO: 02061.0038

PROJECT NAME: Hydrogeologic Site Assessment CLIENT: Emro

PROJECT LOCATION: 939 E. River Rd., Rossford, Oh DRILLING CONTRACTOR: Frontz

DRILLING MTHD: HSA SAMPLE MTHD: Continuous

DATE STARTED: Jul 10, 1997 DATE FINISHED: Jul 10, 1997 DRILLER Frontz INSPECTOR: Flinn

DEPTH (FT)	SAMPLE	SPT BLOWS PER 6"	REC (%)	PID (ppm)	PROFILE	SURFACE ELEVATION: NA LITHOLOGIC DESCRIPTION	REMARKS
30.0	16	9 4 8 3	60	0.4		(Continued from previous page) (CL): Grey Clay, damp-moist.	
	17	1 2 1 3	100	1.7			
35.0	18	1 1 2 1	60	1.2			
	19	1 2 1 2	60	1.2			
	20	1 2 2 1	60	2.1			
40.0							
45.0							
50.0							
55.0							
60.0							

BOTTOM OF TEST BORING: 40 00'

SPT = STANDARD PENETRATION TEST
REC = SAMPLE RECOVERY
ND = NON-DETECTABLE
FID = FLAME IONIZATION DETECTOR
PID = PHOTO-IONIZATION DETECTOR

APPENDIX C

LABORATORY REPORT - SOIL

Parsons ES

Cleveland, Ohio

LABORATORY REPORT TRACKING FORM

Project Name: Euro - Rexford #3642

Project Number: 732903.02000

Sample Date and Description: 3-11,12-98 / 3 soil

Project Manager: Andy Druax

Does report agree with COC? (YES) *NO Initials: DGG

Is Data Review Requested? YES (*NO) Initials: AT / DGG

REPORT SUBMITTED FOR DATA REVIEW:

Date Mailed: _____ Initials: _____

Date Received : N/A Initials: DGG

Date Completed: N/A Initials: _____

RECEIVED FAXED COPIES OF REVIEW:

Date: _____ Initials: _____

TRACKING FORM COMPLETE ✓ Initials: DGG

*OTHER COMMENTS:

06-03-96 DGG

USX Engineers & Consultants Inc.
IH & Environmental Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

Customer: CD-124H-2	ATTENTION: Mr. Andrew Truax (PP)
Speedway SuperAmerica LLC (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : Parsons Engineering Science (Eastern) Phone No : 216-486-9005 C.O.C. #: 8843E Unit # : UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH=ROSSFORD-939 EAST RIVER RD

TRACKING NUMBER: 81011

UEC ID	CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
8318	ES-1 (9-11')	BENZENE/SOIL	4	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08318	ES-1 (9-11')	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
8318	ES-1 (9-11')	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08318	ES-1 (9-11')	XYLENE/SOIL	<4	4	SW-846 EPA 8020	03/11/98	03/17/98	03/17/98
08319	ES-1 (43-45')	BENZENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
8319	ES-1 (43-45')	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
08319	ES-1 (43-45')	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
8319	ES-1 (43-45')	XYLENE/SOIL	<4	4	SW-846 EPA 8020	03/12/98	03/17/98	03/17/98
8320	ES-2 (7-9')	BENZENE/SOIL	<125	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
08320	ES-2 (7-9')	TOLUENE/SOIL	940	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
8320	ES-2 (7-9')	ETHYLBENZENE/SOIL	1500	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98
08320	ES-2 (7-9')	XYLENE/SOIL	12000	125	SW-846 EPA 8020	03/12/98	03/17/98	03/18/98

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* = Information not supplied by client. < = less than.
# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : _____ Date: 3-19-98

APPROVED: Mark R. Banister Date: 3/19/98
Mark R. Banister, CIH, Quality Assurance Officer

USX Engineers & Consultants Inc.
IH & Environmental Laboratories
3000 Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 03/19/198
PAGE - 1

Customer: CD-124H-2	ATTENTION: Mr. Andrew Truax (PP)
Speedway SuperAmerica LLC (Eastern) P.O. Box 1500 207 Walter St. Springfield, OH 45501	Work Requested by : Parsons Engineering Science (Eastern) Phone No. : 216-486-9005 C.O.C. #: 8843E Unit # : UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH=ROSSFORD-939 EAST RIVER RD

TRACKING NUMBER: 81011

LIEC ID	CLIENT ID	ANALYTE	PPM	LOD/PPM	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
08318	ES-1 (9-11')	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	03/11/98	03/17/98	03/17/98
08319	ES-1 (43-45')	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	03/12/98	03/17/98	03/17/98
08320	ES-2 (7-9')	TPH-GASOLINE/SOIL	260	13	CALIF. MODIFIED 8015	03/12/98	03/17/98	03/18/98

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# = Information not requested by client. N/A = Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ANALYST : _____ Date: 3-19-98

APPROVED: Mark R Banister Date: 3/19/98
Mark R. Banister, CIH, Quality Assurance Officer

UEC
USX Engineers & Consultants, Inc
A subsidiary of USX Corporation
USX
[redacted] Environmental Health Laboratories
4000 Tech Center Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

No. 8843 E

732903.02000

Emro Unit Name & No. Emro Rossford #3642 Unit Address 939 East River Road City Rossford State Ohio

Project or AFE No. _____ Lab Work Order No. _____ Consultant Name Andrew Truax Tel. No. 216-486-9005

Emro Project Manager Phil Pavlovicz Tel. No. 937-322-1873 Consultant Firm Parsons ES City Cleveland State OH.

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO₃	Pres. Used: H₂SO₄	Condition on Receipt: Status	Condition on Receipt: Initial
	ES-1 (9-11')	3-11-98 11:00	S	BTEX / TPH	8020 / 8015	4oz.				Good	DM
	ES-1 (43-45')	3-12-98 10:30	S	" "	↓ ↓	"				↓	↓
	ES-2 (7-9')	3-12-98 13:00	S	" "	↓ ↓	"				↓	↓

Sampler's Name (please print) Adam Tucker Signature Adam Tucker

Special Instructions _____

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by Adam Tucker, Parsons ES, 3-16-98, 10:15
   Received by D. Gibson 3-16-98 10:15
2. Relinquished by D. Gibson 3/16/98 17:00
   Received by Airborne Exp. 3/16/98 17:00
   Airborne #5036463342
3. Relinquished by _____
   Received by Doug Marrow UEC 3-17-98 11AM
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

[redacted] Engineers & Consultants Inc.
[redacted] Environmental Laboratories
[redacted] Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
[redacted]HA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/22/97

PAGE - 1

stomer: CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
ro Marketing Co. (Eastern) O. Box 1500 7 [redacted]lter St. ringfield, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

RA[redacted]ING NUMBER: 72522

[redacted]C)	CLIENT ID	ANALYTE	PPM	LOD/PPM	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
37[redacted]	[redacted]-1	TPH-GASOLINE/SOIL	1000	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/21/97
37[redacted]	[redacted]0-3	TPH-GASOLINE/SOIL	380	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
372	B1-28	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/09/97	07/15/97	07/22/97
37[redacted]	[redacted]B2-18	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
37[redacted]	[redacted]B2-12	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97
375	B3-40	TPH-GASOLINE/SOIL	<5	5	CALIF. MODIFIED 8015	07/10/97	07/15/97	07/22/97

[redacted]ES: METHOD CALIBRATION EITHER PERFORMED OR VERIFIED WITHIN 24 HOURS OF ANALYSIS. UNLESS OTHERWISE SPECIFIED.
* - Information not supplied by client. < - less than.
# - Information not requested by client. N/A - Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information. unless otherwise noted.

[redacted]NALYST : Brian C Schuck Date: 7/22/97

[redacted]ROVED: Mark R. Banister Date: 7/23/97

Mark R. Banister, CIH. Quality Assurance Officer

ngineers & Consultants Inc.
& Environmental Laboratories
)0 Tech Center Drive
iroeville, PA 15146
'HONE: (412)825-2400 FAX: (412)825-2407
\IH Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/22/97

)mer: CD-124L-5	ATTENTION: Mija Ranck (PP-Columbus)
Marketing Co. (Eastern) Box 1500 Main St.)gfield, OH 45501	Work Requested by : ATC Associates, Inc. (Emro Eastern) Phone No : 614-238-0984 C.O.C. #: 6931E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 3642 SITE LOCATION : OH-ROSSFORD-939 E RIVER RD

CK NUMBER: 72522

CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
L	BENZENE/SOIL	1700	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L	TOLUENE/SOIL	19000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L-1	ETHYLBENZENE/SOIL	11000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
L	XYLENE/SOIL	76000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D-3	BENZENE/SOIL	150	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D-3	TOLUENE/SOIL	2300	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D	ETHYLBENZENE/SOIL	3100	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
D-3	XYLENE/SOIL	26000	125	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
B1-28	BENZENE/SOIL	9	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
B 28	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
B1-28	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
B 28	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/09/97	07/15/97	07/21/97
B 18	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
B2-18	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
B 18	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
B2-18	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/10/97	07/15/97	07/21/97
B2-12	BENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
B 12	TOLUENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
B2-12	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
B 12	XYLENE/SOIL	14	4	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
B -40	BENZENE/SOIL	12	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
B3-40	TOLUENE/SOIL	10	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
-40	ETHYLBENZENE/SOIL	<2	2	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97
-40	XYLENE/SOIL	<4	4	SW-846 EPA 8020	07/10/97	07/15/97	07/22/97

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me, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ST: _____ Date: 7-22-97

/E: Mark R. Banister Date: 7/23/97

Mark R. Banister, CIH, Quality Assurance Officer

UEC
USX Engineers
& Consultants, Inc
A subsidiary of USX Corporation
USX
[redacted]ch Ce[redacted]ive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

No 6931E

Emro Unit Name & No. SPEEDWAY #3642 Unit Address 939 E. RIVER RD City ROSSFORD State OH

Project or AFE No. _____ Lab Work Order No. _____ Consultant Name MIJA RANCK Tel. No. 614-238-0984

Emro Project Manager PHIL PAVLOVICZ Tel. No. 937-322-1873 Consultant Firm ATC ASSOCIATES City COLUMBUS State OH

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO₃	Pres. Used: H₂SO₄	Condition on Receipt: Status	Condition on Receipt: Initial
L-1	PIPING LINE	7/14/97 1305		BTEX/TPH	8020/8015	4oz				GOOD	DM
D-3	DISPENSER	1345									
B1-28		1420									
B2-18		7/14/97 0830									
B2-12		0810									
B3-40		1435									

Sampler's Name (please print) Mija A. Ranck (MIJA RANCK) Signature _____

Special Instructions please return ice & cooler

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by Mija A Ranck 7/14/97 14:00
   Received by Dawn Moore UEC 7-15-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

APPENDIX D

LABORATORY REPORT - GROUNDWATER

Engineers & Consultants Inc.
Environmental Laboratories
Tech Center Drive
Monroeville, PA 15146
PHONE: (412)825-2400 FAX: (412)825-2407
AIHA Accreditation #322

REPORT OF TEST RESULTS

DATE - 07/25/97
PAGE - 1

stomer: CD-124L-3	ATTENTION: Mr. Bill Glaze (PP-Columbus)
ro Marketing Co. (Eastern) O Box 1500 ringfield, OH 45501	Work Requested by : ATC Associates. Inc. (Emro Eastern) Phone No. : 614-238-0984 C.O.C. #: 3523E Unit # : SPEEDWAY UNIT #3642 CUSTOMER W.O. # : 9999 SITE LOCATION : OH-ROSSFORD

RACKING NUMBER: 72590

C	CLIENT ID	ANALYTE	PPB	LOD/PPB	METHOD	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
38	MW001	BENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
3	MW001	TOLUENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
38	MW001	ETHYLBENZENE/WATER	<2	2	EPA 602	07/15/97	07/18/97	07/24/97
3	MW001	XYLENE/WATER	<4	4	EPA 602	07/15/97	07/18/97	07/24/97

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* - Information not supplied by client. < - less than.
# - Information not requested by client. N/A - Not Applicable.
Time, flow rate and/or sample volume data are based on client supplied information, unless otherwise noted.

ALYST : _____ Date: 7-25-97

VED: Mark R. Banister Date: 7/25/97
Mark R. Banister, CIH, Quality Assurance Officer

UEC
USX Engineers
& Consultants Inc
A subsidiary of USX Corporation
USX

[redacted] Tech [redacted] Drive
Monroeville, PA 15146
412 825 2400
Fax: 412 825 2407

Chain of Custody Record

Nº 3523 E

Emro Unit Name & No. Speedway Station — Unit Address 939 River Rd — City Rossford — State Ohio

Project or AFE No. _____ — Lab Work Order No. _____ — Consultant Name Bill Glaze — Tel. No. 614-268-0584

Emro Project Manager Phil Pavlovicz — Tel. No. 937 322-1873 — Consultant Firm ATC Assoc. — City Columbus — State Ohio

Field Sample No.	Sample Location	Date & Time Collected	H²O Soil	Analysis Requested: Test	Analysis Requested: Method No.	Container Type/Size	Pres. Used: HCL	Pres. Used: HNO₃	Pres. Used: H₂SO₄	Condition on Receipt: Status	Condition on Receipt: Initial
MW001	Rossford, Ohio	7/15 14:00	H_2O	BTEX 602		2/40 ML				Good	DM

Sampler's Name (please print) Bill Glaze — Signature Bill Glaze

Special Instructions Need hard copy by 7-31

Possible Lab Hazards _____

Signatures: (Name, Company, Date & Time)

1. Relinquished by _____
   Received by Dan Morrow UEC 7-18-97 11AM
2. Relinquished by _____
   Received by _____
3. Relinquished by _____
   Received by _____
4. Relinquished by _____
   Received by _____

Final Report To: _____ — Invoice To: _____

Laboratory Copy-WHITE Final Report Copy-YELLOW Field Sampler Copy-PINK

APPENDIX E

BUSTR SITE FEATURE SCORING SYSTEM (SFSS) CHART AND JUSTIFICATION

SITE FEATURE SCORING SYSTEM
OAC 1301:7-9-13(E)(3)(I)

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
Speedway SuperAmerica LLC. 207 Walter Street Springfield, Ohio	Speedway SuperAmerica LLC. 939 East River Road Rossford, Ohio Incident #

	COLUMN A		COLUMN B		COLUMN C		COLUMN D	
SITE FEATURES	Score 20 If True	Score	Score 15 If True	Score	Score 10 If True	Score	Score 5 If True	Score
1. Distance of UST system from closest drinking water supply well or intake currently in use.	>1000 feet		301-1000 feet		<301 feet	10	Inside of designated sensitive area	
2. Average depth to groundwater	>50 feet		31-50 feet		15-30 feet or unknown		<15 feet	5
3. Predominant soil type of substratum.	Clay or Shale	20	Silt or Clayey Sands or Fine Sandstone		Silty Sand or Fine Sandstone or Sandstone or Unknown		Clean Sand or Gravel or Conglomerate	
4. Natural and/or manmade conduits or receptors (points).	<8		8-10		11-13		>13	5
Subtotal:		20		0		10		10

Total Score: 40
Category: 2

NATURAL AND/OR MANMADE CONDUITS OR RECEPTORS
OAC 1301:7-9-13(E)(4)(v)

Basements or subsurface foundations within 100 feet of UST system	4 points	4
Storm sewer within 50 feet of UST system	4 points	4
Sanitary sewer within 50 feet of UST system	4 points	4
Septic system leach field within 50 feet of UST system	2 points	0
Water line main within 50 feet of UST system	1 points	1
Natural gas main within 50 feet of UST system	1 points	1
Bedrock area prone to dissolution along joints or fractures (ie caves & sinkholes) within 100 feet of UST system	1 points	0
Faults or known fractures within 100 feet of UST system	1 points	0
Buried telephone/television cable main within 50 feet of UST system	1 points	0
Buried electric cable main within 50 feet of UST system	1 points	0
	Total Points	**14**

SFSS Action Levels (ppm)

TOTAL SCORE	Category 1 <31	Category 2 31-50	Category 3 51-70	Category 4 >71
Soil BTEX	.006/4/6/28	.170/7/10/47	.335/9/14/67	.500/12/18/85
Groundwater BTEX	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10
Soil TPH (8015)	105	300	450	600
Soil TPH (418.1)	380	642	904	1156

Site Feature Score Justification

1. Distance of UST system from closest potable-water supply source within 1/4 mile.

- The closest potable water well is within approximately 300 feet from the site (Log #362553). Other nearby wells are included in the ODNR well logs in appendix A.

2. Average depth to groundwater.

- Depth to groundwater in MW-1 was 11.28 feet on 7 July 1995.

3. Predominant soil type of substratum in the vicinity of the UST excavation.

- Silty clays and clays were encountered throughout the borings. See Appendix B for the soil boring logs.

4. Natural and/or man-made conduits/receptors near UST system.

- Several utilities to the station building are below grade and near the UST system. See Figure 2 for utility and building locations.

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

TIER 2 ADDENDUM REPORT

Speedway SuperAmerica LLC Store #3642
939 East River Road (Dixie Highway)
Rossford, Ohio
Wood County

BUSTR Release #87000087-N00002

Prepared for:

Mr. Keith A. Hughes
Advanced Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. Box 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Project No. 08.75116.0057

Travis S. Bukach
Project Manager

Mark A. Samblanet
Senior Project Manager

1 May 2006

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APPENDICES

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1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to prepare this *Tier 2 Addendum Report* for SSA Store #3642 located at 939 East River Road (Wood County), Ohio (**Figures 1** and **2**). The report has been prepared to present the results of the additional assessment activities conducted in January 2006, to re-evaluate Site Specific Target Levels (SSTLs) for chemicals of concern in soil and groundwater that exceed Tier 1 Action Levels, and to present the results of the Groundwater Monitoring Plan conducted at the site.

This *Tier 2 Addendum Report* was prepared in accordance with Ohio Administrative Code (OAC) 1301:7-9-13 (M), (N), and the Bureau of Underground Storage Tank Regulations (BUSTR) 1999 Technical Guidance Manual (2001a).

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 10" North, 83° 33' 56" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographical quadrangle (**Figure 1**). SSA Store #3642 is located on the northeast corner of the intersection of East River Road and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio (**Figures 2** and **3**).

The current features on the property include the following:

- Sales building with restrooms.
- Underground storage tank (UST) system
  - One 8,000-gallon gasoline UST (installed in January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997)
  - Three gasoline dispensers and associated piping (removed in July 1997)
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water

2.2 Adjacent Land Use

The site is located in a mixed commercial and residential area of Rossford, Ohio. The site is bordered to the west across East River Road by residential properties, to the south across Rossway Avenue by a bowling alley, to the east by a parking lot, and to the north by a strip mall. The site is currently zoned commercial and,based on the criteria given in OAC 1301:7-9-13 (M)(1)(g), the anticipated future land use will be considered commercial since greater than 75% of the surrounding properties within 300 feet of the site are commercial. **Figure 3** presents a surrounding properties map that depicts the adjacent properties within 300 feet of the site.

2.3 Previous Investigations

The following is a summary of historical site activities conducted at the site:

- **July 1997:** A closure assessment was conducted in association with the permanent removal of three gasoline dispensers and related underground piping and one 550-gallon used oil UST. In addition, a site assessment was conducted with the advancement of three soil borings (B-1, B-2, and B-3). Boring B-1 was completed as monitoring well MW-1. Refer to the ATC Associates, Inc. *UST System Line and Dispenser Closure, Used Oil UST Closure, and Site Assessment Report* dated 31 October 1997.

- **March 1998:** Two soil borings (ES-1 and ES-2) were advanced. Refer to the Parsons Engineering Science, Inc. *Site Assessment Report* dated May 1998 for further details.

- **March 2002:** Five monitoring wells (MW-2 through MW-6) were installed at the site as part of Tier 1 Evaluation activities. In addition, one soil boring (ST-1) was advanced and a Shelby tube was collected and submitted for geotechnical analysis. Refer to the Parsons *Tier 1 Evaluation Notification Checklist Report* dated May 2002 for further details.

- **December 2002:** Two additional monitoring wells (MW-7 and MW-8) were installed as part of Tier 2 Evaluation activities. A Tier 2 Evaluation Report was prepared and submitted to BUSTR requesting a No Further Action (NFA) for Release #87000087-N00002. Refer to the Parsons *Tier 2 Evaluation Report* dated June 2003.

- **July 2003:** Based on a review of the Parsons *Tier 2 Evaluation Report*, BUSTR issued a letter dated 25 July 2003 requesting that a Monitoring Plan be prepared to verify the predictions of the BIOSCREEN fate and transport model.

- **January 2004:** BUSTR approved the site specific groundwater monitoring plan in a letter dated 27 January 2004. Subsequently, four quarters of groundwater monitoring were completed by Parsons.

- **May 2005:** Based on a review of the Groundwater Monitoring Reports dated June and August 2004, BUSTR determined that additional groundwater monitoring was necessary due to recent increases of benzene and methyl tertiary butyl ether (MTBE) concentrations onsite. Additionally, BUSTR requested additional information regarding the exact location of a potable water well located in the immediate vicinity of SSA Store #3642 according to the ODNR. Refer to the BUSTR letter dated 16 May 2005.

- **August 2005:** ATC prepared an *Additional Information Response Letter Report* (dated 19 August 2005) which outlined an extended Groundwater Monitoring Plan and presented additional information regarding the water well (ODNR Log #362553) thought to be located in the vicinity of the site. Based on an investigation of the surrounding area, it is believed that the potable water well in question was either abandoned, destroyed, paved over, or that the ODNR log references an incorrect address.

- **November 2005:** ATC prepared the Groundwater Sampling Report (Second Event) to BUSTR. In addition to summarizing the groundwater monitoring plan activities, ATC recommended that two additional onsite monitoring wells be installed to provide adequate point of demonstration (POD) wells for BIOSCREEN verification. Refer to the *Groundwater Sampling Report* dated November 2005.

Tables 1 and **2** provide the historical and current soil analytical results for the soil samples collected at the site. **Table 3** presents the historical and current groundwater gauging data and analytical results.

2.4 Drinking Water Determination

Based on the results of the Tier 1 and Tier 2 Evaluations, the groundwater encountered at the site during subsurface investigations is considered drinking water due to the presence of at least four potable water wells within a 2,000-foot radius from the site and due to the presence of a body of surface water within 300 feet. Grassy Creek is located approximately 250 feet north of the site and flows westward into the Maumee River. The closest of the wells was located approximately 100 feet east (up-gradient) from the site. However, a presented in the ATC *Additional Information Response Letter Report* dated August 2005, no evidence has been identified to show that this well currently exists. The next closest well is located approximately 900 feet north of the site. All data collected to date has not identified any potable water wells located within 300-feet of the site. Furthermore, all properties with structures located with a 300-foot radius of the site are connected to the City water supply. Reference the Parsons *Tier 2 Evaluation Report* and the ATC *Additional Information Response Report* for information pertaining to the drinking water determination for SSA Store #3642.

3.0 ADDITIONAL SITE ASSESSMENT ACTIVITIES

3.1 Soil Boring and Field Screening

On 17 January 2006, Belasco Drilling Services advanced two soil borings (MW-9 and MW-10) at SSA Store #3642 under the supervision of an ATC geologist. The first five feet of each boring was advanced using a hand auger to prevent contact with unmarked utilities. All of the soil borings were advanced using 4.25-inch hollow stem auger (HSA) technology. Soil samples for MW-9 and MW-10 were collected continuously from five feet to the total depth of the borings with two-inch diameter, 24-inch long, split-spoon sampling device using the Standard Penetration Test Method (American Society for Testing and Materials (ASTM) Method D-1586). Blow counts for each sampled interval are recorded on the soil boring logs (**Appendix A**).

Soil samples from each two-foot interval were collected and equally divided between one laboratory grade glass jar and a re-sealable plastic baggie using a pair of clean, nitrile gloves per two foot interval to prevent cross-contamination. The jar was secured with a screw-on Teflon™-lined lid, and stored on ice in a cooler for possible laboratory analysis. The re-sealable baggie was held for a minimum of 10 minutes prior to scanning the headspace for volatile organic compounds (VOCs).

Soil samples were field screened for VOCs using a Photovac Microtip Photoionization Detector (PID). The PID was calibrated with a 100 parts per million (ppm) isobutylene-in-air commercial gas standard, and used in accordance with the manufacturer's operating instructions. The headspace above each sample was scanned for VOCs by piercing the baggie with the PID probe, and the maximum observed reading in ppm was recorded. The VOC measurements are summarized on the soil boring logs (**Appendix A**).

The undisturbed portion of samples (collected from the unsaturated zone of each boring) corresponding to the highest measured VOC reading and the sample collected from immediately above the zone of saturation in each boring were selected for laboratory analysis. A field blank sample was also collected for QA/QC purposes. The samples were placed in a cooler with ice and transported under chain-of-custody procedures to Southern Petroleum Laboratories (SPL) located in Traverse City, Michigan for analysis. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8260B. The results of the laboratory analyses have been summarized in **Tables 1** and **2** and **Figure 4**. The complete laboratory report is included in **Appendix B**.

The field geologist provided a complete description of soils encountered during drilling activities

according to the Unified Soil Classification System and the Standard Visual - Manual Soil Classification Scheme (ASTM 2488-84) to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, soil type, and other important features for each two foot sample are recorded on the soil boring logs in **Appendix A**. Each soil sample was also carefully examined for evidence of petroleum hydrocarbons.

All tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse, followed by a final rinse with distilled water. The equipment was allowed to air dry prior to reuse.

3.2 Monitoring Well Construction

Monitoring wells MW-9 and MW-10 were constructed of two-inch inner diameter (ID) Schedule 40 polyvinyl chloride (PVC) well screen and riser. The well screen section in the monitoring wells was 10 feet long with 0.010-inch slots. The riser section extends from the top of the well screen to within approximately eight inches of surface grade. The annular space between the well screen and the borehole walls was filled with a sand filter pack to one foot to two feet above the top of the screened interval. The remaining annular space was grouted with bentonite pellets to one foot bgs. An expandable locking well cap was placed in the PVC riser, secured with a padlock, and an eight-inch diameter flushmount manhole with cover was installed to further protect the well and secured in a 2-foot by 2-foot concrete pad, one foot thick. Diagrams of each monitoring well indicating the total depth of the boring, the screened interval, and other well construction information are included as part of the boring logs (**Appendix A**).

Following completion, monitoring wells MW-9 and MW-10 were developed by surging with a PVC bailer. The bailer was lowered by clean, disposable rope into the water that had accumulated within each well, and then rapidly raised and lowered several times. The surging effect created by the motion of the bailer loosens the fine material that may have been clogging the well screen or the surrounding sand pack. After developing each well, the rope was discarded and the bailer was scrubbed with a Liquinox™ and water solution, rinsed with tap water, and given a final rinse with distilled water to prevent cross-contamination between wells.

All soils generated during drilling activities and the purge and development water generated during sampling activities were stored on-site in labeled, 55-gallon, closed top drums, awaiting proper disposal.

The newly installed monitoring wells were surveyed on 19 January 2006 relative to an existing monitoring well and tied into the existing monitoring well network at the site. The elevation of each well was measured at the top of casing and the north side of the manhole covers relative to the site benchmark (ground surface). The depths to fluid measurements collected during the groundwater sampling event have been included in **Table 3**. A potentiometric surface map has been included as **Figure 5**. Groundwater flow across the site appears to be to the west/southwest.

4.0 EXPOSURE PATHWAYS AND CHEMICALS OF CONCERN

4.1 Chemicals of Concern and Contaminant Source Identification

The Tier 2 chemicals of concern were selected based on those compounds that exceed the Tier 1 Action Levels:

- Groundwater – Benzene, ethylbezene, xylenes, and MTBE (Groundwater Ingestion)
- Soil – Benzene (Leaching to Drinking Water)

- Soil – Benzene (Volatilization to Indoor Air)

The source area is defined as the area of highest concentration of petroleum hydrocarbons. The source area for SSA Store #3642 is the area encompassing the current gasoline dispenser island area (**Figure 2**). Therefore, the chemicals of concern for the site are those associated with Analytical Group 1: BTEX and MTBE.

4.2 Exposure Route and Exposure Point

A Tier 2 Evaluation considers the site-specific risk to human health and the environment. A risk assessment for the Tier 2 Evaluation is described in terms of the hazard assessment, dose response assessment, exposure assessment, and risk characterization.

- Hazard assessment involves characterizing the nature and strength of the contaminant.
- Dose response assessment is the process of quantitatively evaluating the toxicity information, characterizing the relationship between the dose of the contaminant administered or received, and the incidence of adverse health effects in the exposed population.
- Exposure assessment is the determination or estimation of the magnitude, frequency, duration, and routes of exposure.
- Risk characterization summarizes the potential for adverse health effects in terms of the estimated cancer risks and estimated non-cancer hazard quotients.

The risk posed by exposure to a chemical of concern is comprised of three elements: toxicity of the chemical, rate of intake, and exposure concentration. Potential risk is calculated using EPA standard criteria for exposure duration and population characteristics (body weight, rate of inhalation or ingestion, etc.) applied to concentrations present or potentially present at the point of exposure. Standard calculations developed by the USEPA are used to determine risk for chemical of concerns based on a Target Risk Level for carcinogens of 1×10^{-5} or a Hazard Quotient (HQ) for toxic compounds of 1.0 or less.

Exposure pathways are routes by which human or ecological receptors are, or may be, exposed to a chemical of concern. Possible exposure pathways are identified using the following four components:

- Sources or mechanisms of the chemicals of concern release;
- Transport medium;
- Point of current or potential human contact with or exposure to the chemicals of concern; and,
- Exposure pathways, such as inhalation, dermal absorption, or ingestion.

All four of these components are required for a complete exposure pathway. Both current and future potential receptors were considered in the exposure assessment.

5.0 SITE-SPECIFIC TARGET LEVELS

The following sections have been presented to re-evaluate the exposure pathways applicable for the site and to calculate SSTLs for these exposure pathways for each chemical of concern that has site maximum concentrations in excess of Tier 1 Action Levels.

Several factors are considered in the risk evaluation: migration routes, fate and transport of the chemical of concerns in the subsurface, potential exposure dosages for each chemical of concern and acceptable risk levels at the identified point of exposure (POE). Fate and transport of chemicals of concern is demonstrated by using the maximum site concentrations and showing migration to the nearest receptor. Fate and transport modeling will also be used to calculate groundwater SSTLs. In order to calculate the Soil to Drinking Water Leaching SSTLs, on-site Groundwater Ingestion SSTLs must be calculated to show that the dissolved benzene concentrations in groundwater will not reach off-site receptors within 250 feet of the site (distance to Grassy Creek) at concentrations greater than the Tier 1 Action Levels.

5.1 Chemical of Concern Migration SSTLs – Groundwater

Prediction of chemical of concern concentrations in groundwater at the POE is performed using conservative analytical models of migration pathways. BIOSCREEN Groundwater Contamination Natural Attenuation Model [Version 1.3 (1996) and Version 1.4 (1997)], developed by Groundwater Services, Inc. (GSI), also incorporates the models described in ASTM E1739-95 into a spreadsheet-based risk assessment program that simulates the fate and transport of chemicals of concern with no decay, first order decay, and instantaneous reaction based on the Domenico analytical solute transport. According to the BUSTR fact sheet dated April 2003, BIOSCREEN may be used to show fate and transport modeling of BTEX with first order decay and MTBE with no decay from the source area on-site to the nearest potential receptor using the maximum groundwater concentrations found in the monitoring wells at the site. The POE will be considered Grassy Creek located approximately 250 feet north of the source area. The current maximum dissolved chemical concentrations in groundwater found at the site will be used in BIOSCREEN to represent the source area concentrations. BIOSCREEN will be used to calculate the on-site groundwater SSTLs, which will indicate the maximum allowable dissolved chemical concentrations that will degrade to below Tier 1 Action Levels prior to reaching the nearest POE.

For all the BIOSCREEN model calculations described below, the following input parameters were used. The horizontal hydraulic gradient for the site (0.062 feet per foot) was obtained (**Figure 5**). The source thickness in the saturated zone was estimated to be 10 feet (BUSTR default). The saturated, horizontal hydraulic conductivity calculated from slug test data was 3.90×10^{-5} cm/s for MW-4 (the highest value calculated for the site). Total organic carbon for the saturated zone was obtained from MW-7 (15-17) and the soil bulk density and porosity were obtained from MW-6 (19-21).

5.1.1 Benzene Migration SSTL

Based on the dissolved benzene concentrations on-site, the source configuration was estimated to be 90 feet by 60 feet, encompassing the current gasoline dispenser island area and monitoring wells MW-4 and MW-10. The migration of the source was set to 18 years (time at which equilibrium is achieved); the modeled area included a length and width of 300 feet and 100 feet, respectively. MW-4 has the current maximum concentration of benzene; therefore, the point of demonstration (POD) well will be MW-10, which is located approximately 30 feet downgradient from MW-4. The POE is Grassy Creek located approximately 250 feet north of the source area.

Using the maximum concentration of 2.90 milligrams per Liter (mg/L) as the primary source concentration, BIOSCREEN projected that dissolved benzene will degrade in groundwater at a concentration below the Tier 1 Action Level prior to reaching the 250-foot POE and upon reaching steady state conditions. Additionally, the 30-foot POD well concentration of 0.073 mg/L is less than the predicted 30-foot POD concentration of 0.080 mg/L. Therefore, the Groundwater Ingestion Pathway for benzene is considered incomplete at the 250-foot POE.

For comparison, an onsite dissolved benzene SSTL for Groundwater Ingestion was calculated using a conservative source area configuration and back-calculating from the 250-foot POE to the source area. The model shows that a dissolved benzene concentration of 10.0 mg/L in groundwater within the source area will degrade to below the Tier 1 Action Level prior to reaching the 250-foot POE (and upon reaching steady state conditions). This SSTL exceeds the Tier 1 Groundwater to Indoor Air Action Level (3.99 mg/L) for benzene. Therefore, a SSTL for the Groundwater to Indoor Air Pathway will be calculated. The BIOSCREEN model input parameters and modeling results are provided in **Appendix C.**

5.1.2 Ethylbenzene Migration SSTL

Based on the dissolved ethylbenzene concentrations on-site, the source configuration was estimated to be 90 feet by 60 feet, encompassing the current gasoline dispenser island area and monitoring wells MW-4 and MW-10. The migration of the source was set to 13 years (time at which equilibrium is achieved); the modeled area included a length and width of 100 feet and 100 feet, respectively. MW-4 has the current maximum concentration of ethylbenzene; therefore, the POD well will be MW-10, which is located approximately 30 feet downgradient from MW-4. The POE is Grassy Creek located approximately 250 feet north of the source area.

Using the maximum concentration of 2.40 mg/L as the primary source concentration, BIOSCREEN projected that dissolved ethylbenzene will degrade in groundwater at a concentration below the Tier 1 Action Level prior to reaching the 250-foot POE and upon reaching steady state conditions. Therefore, the Groundwater Ingestion Pathway for ethylbenzene is considered incomplete at the 250-foot POE.

For comparison, an onsite dissolved ethylbenzene SSTL for Groundwater Ingestion was calculated using a conservative source area configuration and back-calculating from the 250-foot POE to the source area. The model shows that a dissolved ethylbenzene concentration of 10.0 mg/L in groundwater within the source area will degrade to below the Tier 1 Action Level prior to reaching the 250-foot POE (and upon reaching steady state conditions). The BIOSCREEN model input parameters and modeling results are provided in **Appendix C.**

5.1.3 Xylenes Migration SSTL

Based on the dissolved xylenes concentrations on-site, the source configuration was estimated to be 90 feet by 60 feet, encompassing the current gasoline dispenser island area and monitoring wells MW-4 and MW-10. The migration of the source was set to 11 years (time at which equilibrium is achieved); the modeled area included a length and width of 100 feet and 100 feet, respectively. MW-4 has the current maximum concentration of xylenes; therefore, the POD well will be MW-10, which is located approximately 30 feet downgradient from MW-4. The POE is Grassy Creek located approximately 250 feet north of the source area.

Using the maximum concentration of 11.0 mg/L as the primary source concentration, BIOSCREEN projected that dissolved xylenes will degrade in groundwater at a concentration below the Tier 1 Action Level prior to reaching the 250-foot POE and upon reaching steady state conditions. Therefore, the Groundwater Ingestion Pathway for xylenes is considered incomplete at the 250-foot POE.

For comparison, an onsite dissolved xylenes SSTL for Groundwater Ingestion was calculated using a conservative source area configuration and back-calculating from the 250-foot POE to the source area. The model shows that a dissolved xylenes concentration of 100 mg/L in groundwater within the source area will degrade to below the Tier 1 Action Level prior to reaching the 250-foot POE (and upon

reaching steady state conditions). The BIOSCREEN model input parameters and modeling results are provided in **Appendix C.**

5.1.4 MTBE Migration SSTL

Based on the dissolved MTBE concentrations on-site, the source configuration was estimated to be 60 feet by 95 feet centered on monitoring wells MW-4 and MW-5. MW-4 has the maximum concentration of MTBE for this particular source area; therefore, the POD well will be MW-10, which is located approximately 30 feet downgradient from MW-4 The POE is an arbitrary point located 250 feet downgradient of the site.

Using the maximum concentration of 1.50 mg/L (MW-4) for the primary source concentration, and 0.680 mg/L (MW-5) for the secondary source concentration, BIOSCREEN projected that dissolved MTBE will reach the 250-foot POE at a concentration in excess of the Tier 1 Action Level within 21.5 years. Given the input parameters and the plume characteristics, MTBE in groundwater will not reach equilibrium in the BIOSCREEN model. Therefore, a SSTL cannot be calculated for MTBE using BIOSCREEN. However, after four years of plume migration (since impact was first identified in the source area in April 2002), the BIOSCREEN model predicts that the MTBE concentration in monitoring well MW-10 should be 2.87 mg/L using maximum historical MTBE source area concentrations (5.30 mg/L and 1.7 mg/L for MW-4 and MW-5, respectively). Site data, however, exhibits a current MTBE concentration of <0.015 mg/L. Based on this observation, the "no-degradation" scenario inherent in the modeling of MTBE migration with BIOSCREEN is more conservative than the actual conditions found at the site. An extension of the approved Groundwater Monitoring Plan will be outlined later in this report to address this issue.

The BIOSCREEN model input parameters and modeling results are provided in **Appendix C**.

5.2 Groundwater to Indoor Air SSTL – Benzene

Since the land-use scenario is expected to remain commercial, the Groundwater to Indoor Air SSTLs will be evaluated using the commercial structure. The BUSTR Tier 2 spreadsheets were utilized to calculate Groundwater to Indoor Air SSTL for benzene. BUSTR default input parameters were used with the exception of total soil porosity (0.3179) and volumetric water content (0.161). The resulting SSTL is 14.3 mg/L (**Table 4**).

5.3 Soil SSTLs

Soil SSTLs were calculated for all chemicals of concern constituents that exceeded Tier 1 Action Levels for soil.

5.3.1 Soil Leaching to Groundwater SSTL – Benzene

A SSTL for benzene for on-site soils was calculated using the BUSTR Tier 2 SSTL spreadsheet. Site-specific data for fraction organic content, porosity, and volumetric water content from MW-3, 9-11 feet were used. The drinking water action level of 0.005 mg/L was replaced with the Groundwater Ingestion SSTL of 10.0 mg/L, which resulted in a SSTL of 129 mg/Kg. The maximum benzene concentration in soil of 1.70 mg/Kg (L-1) does not exceed this SSTL. The BUSTR Tier 2 spreadsheet is included in **Appendix D. Table 4** presents the soil SSTL for benzene.

5.3.2 Soil to Indoor Air SSTL - Benzene

A Soil to Indoor Air SSTL for benzene for commercial receptors was calculated using the BUSTR Tier 2 SSTL spreadsheet. Site specific data from geotechnical soil samples were input to replace several BUSTR default values. The SSTL was calculated to be 9.51 mg/Kg for commercial receptors. The maximum benzene concentration in soil of 1.70 mg/Kg (L-1) does not exceed this SSTL. The BUSTR Tier 2 spreadsheet is included as **Appendix D. Table 4** presents the soil SSTL for benzene.

6.0 GROUNDWATER MONITORING PLAN RESULTS

Based on a review of the Groundwater Monitoring Reports dated June and August 2004, BUSTR determined that additional groundwater monitoring was necessary due to recent increases of benzene and MTBE concentrations onsite (refer to the BUSTR letter dated 16 May 2005). Therefore, ATC outlined an extended Groundwater Monitoring Plan in the *Additional Information Response Letter Report* (dated 19 August 2005) that consisted of two additional quarterly sampling events. The following summarizes the activities conducted and the results obtained for the approved extended groundwater monitoring plan.

6.1 Groundwater Monitoring and Sampling

On 19 September 2005 and 19 January 2006, depth to fluid measurements and groundwater samples were collected from all active monitoring wells (MW-9 and MW-10 were installed in January 2006 and were only sampled during the 19 January 2006 event). Depth to fluid measurements were collected with an ORS™ oil/water interface probe and referenced to the north side of the manhole covers (**Table 3**). Measurable phase separated hydrocarbons (PSH) were not observed in any monitoring wells. Based on the measured groundwater elevations, groundwater movement across the site is to the southwest (**Figure 5**). Clean nitrile gloves were worn between the work conducted at each well to prevent cross-contamination. Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection using dedicated disposable bailers. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The groundwater purging records for the sampling events conducted by ATC are included in **Appendix B**.

Groundwater samples were collected with the dedicated disposable bailers and divided between two laboratory supplied 40-milliliter vials. One trip blank and one duplicate sample were also submitted during each event. The samples from each event were placed in a cooler with ice and transported under chain-of-custody records to SPL in Traverse City, Michigan. The samples were analyzed for BTEX and MTBE by EPA Method 8021B. The results of the laboratory analyses have been summarized in **Table 3** and illustrated in **Figure 6**. The copies of the complete laboratory reports have been included in **Appendix B**.

6.2 Monitoring Plan Results

Results of the six groundwater sampling events, conducted at the site since the submittal of the Parsons *Tier 2 Evaluation Report*, indicated the following:

- The extent of groundwater impact has been defined to Tier 1 Action Levels (Groundwater Ingestion Pathway).

- No off-site migration of BTEX and MTBE has been detected as evidence by analytical results from MW-1, MW-6, MW-7, and MW-8.
- BTEX constituents concentrations in all monitoring wells have remained below the calculated SSTLs and/or applicable Tier 1 Action Levels for all groundwater sampling events conducted since April 2002.
- BTEX and MTBE concentrations in onsite monitoring wells have demonstrated a stabilizing or decreasing trend indicative of a groundwater plume at steady-state conditions with the exception MTBE concentrations in MW-5. MTBE concentrations in monitoring well MW-5 had consistently shown an increase until the 19 January 2006 sampling event.
- Since no SSTL could be calculated for MTBE using the BIOSCREEN model, the default Tier 1 Groundwater Ingestion Action Level will apply. Therefore, MTBE concentrations detected in monitoring wells MW-4 and MW-5 exceed the applicable groundwater Action Level.

7.0 CONCLUSIONS

Based on the results of historical investigations and the results presented in this report, the following conclusions can be made regarding BUSTR Release #87000087-N00002:

- Based on the results of the Tier 1 and Tier 2 Evaluations, the groundwater encountered at the site during subsurface investigations is considered drinking water due to the presence of at least three potable water wells within a 2,000-foot radius from the site and due to the presence of a body of surface water within 300 feet. Grassy Creek is located approximately 250 feet north of the site and flows westward into the Maumee River. The future onsite Groundwater Ingestion Pathway is potentially complete for benzene, ethylbenzene, xylenes, and MTBE.
- The site is currently zoned commercial and based on the criteria given in OAC 1301:7-9-13 (M)(1)(g), the anticipated future land use will be considered commercial since greater than 75% of the surrounding properties within 300 feet of the site are commercial..
- Extent of hydrocarbon impact in soil and groundwater has been defined to Tier 1 Action Levels.
- All chemical of concern concentrations in soil and groundwater do not exceed the applicable Tier 2 SSTLs and/or Tier 1 Action Levels with the exception of MTBE concentrations in groundwater collected from MW-4 and MW-5. However, as previously discussed, the dissolved MTBE plume is not migrating in accordance with the conservative BIOSCREEN model predictions. Instead, the MTBE plume has demonstrated a relatively stable plume with minimal down-gradient migration as evidenced by site data. Based on these observations, the Groundwater Ingestion Pathway at the 250-foot POE is considered incomplete.

Based on the conclusions presented above, the residual hydrocarbon impact present in groundwater does potentially pose an unacceptable risk to human health and the environment in the future scenarios. ATC recommends that SSA prepare an Environmental Covenant to prohibit **future use of groundwater onsite as drinking water to eliminate the future onsite Groundwater Ingestion Pathway. Additionally, since monitoring wells MW-9 and MW-10 have only been sampled once, ATC recommends that SSA request BUSTR approval to extend the Groundwater Monitoring Plan for three additionally quarters.** This extension will serve to demonstrate that BTEX and MTBE concentrations are stable or

decreasing onsite and that the dissolved MTBE plume is stable and not migrating at the rate indicated in the BIOSCREEN model calculations.

8.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science, geology and engineering. This warranty is in lieu of all other warranties either expressed or implied. ATC is not responsible for information lacking as a result of non-disclosure by the recipient of this report, or independent conclusions, opinions, or recommendations made by others based on information in this report.

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the site investigation activities conducted by ATC. ATC and this report make no representation or assumptions as to past conditions or future occurrences.

9.0 REFERENCES

Bureau of Underground Storage Tank Regulations, 2001a, 2001: BUSTR Technical Guidance Manual, July 2001.

Bureau of Underground Storage Tank Regulations, 2001b, State of Ohio Interactive Reference Guide for 1999 Closure/Corrective Action Rules, September 2001.

Groundwater Services, Inc, 1996: BIOSCREEN Natural Attenuation Decision Support System Version 1.3, Groundwater Services, Inc, Houston, Texas.

Groundwater Services, Inc, 1997: BIOSCREEN Natural Attenuation Decision Support System Version 1.4, Groundwater Services, Inc, Houston, Texas.

TABLES

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-7 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-7 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-3 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-1 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-1 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-2 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-1 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-2 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-2 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-3 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.025	< 0.100	0.840	5.100	< 0.250
MW-2 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-2 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-3 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-3 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-4 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-4 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-5 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-5 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-5 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-5 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-5 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-6 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-6 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-2 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-2 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-3 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-3 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-1 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-1 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-2 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-1 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-3 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	Not Applicable	1.900	%
MW-3 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	Not Applicable	1.800	%
MW-7 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	Not Applicable	2.000	%
MW-7 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	Not Applicable	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-1								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
MW-2								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-4								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
MW-5								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
MW-6								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-9	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-7								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-8	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

TABLE 4
SITE-SPECIFIC TARGET LEVELS

Speedway SuperAmerica LLC Store #3642
939 East River Road
Rossford, Ohio

	Highest Soil or Groundwater Concentration (mg/kg or mg/L)	Calculated SSTL (mg/kg or mg/l)	Exceedance
Soil to Indoor Air, Commercial - Benzene	1.70	9.51	NO
Soil Leaching to Drinking Water - Benzene	1.70	129	NO
Groundwater SSTL - Benzene	2.90	10.0	NO
Groundwater SSTL - Ethylbenzene	2.40	10.0	NO
Groundwater SSTL - Xylenes	11.0	100	NO
Groundwater SSTL - MTBE	1.50	0.040	YES
Groundwater to Indoor Air - Benzene	2.90	14.3	NO

FIGURES

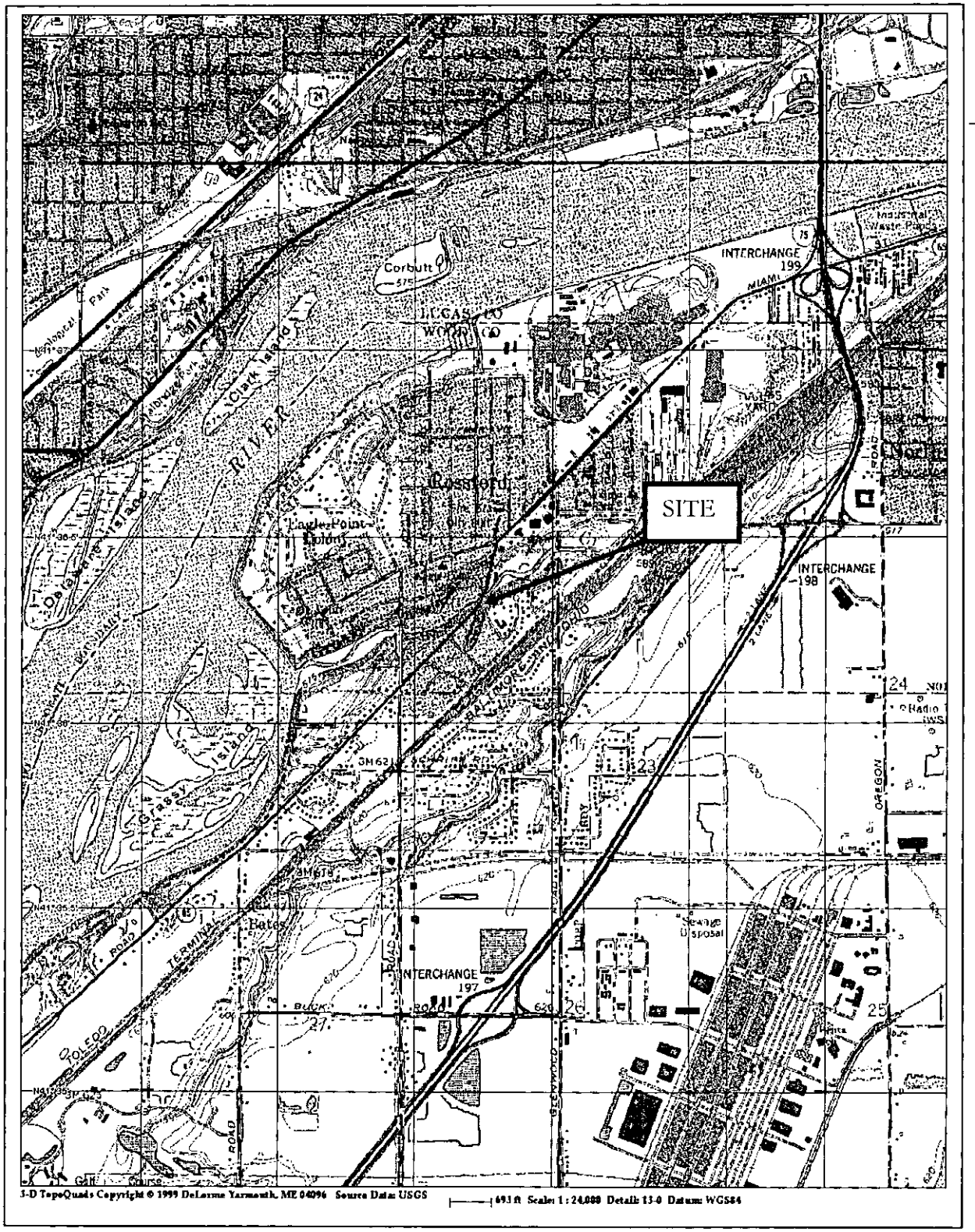
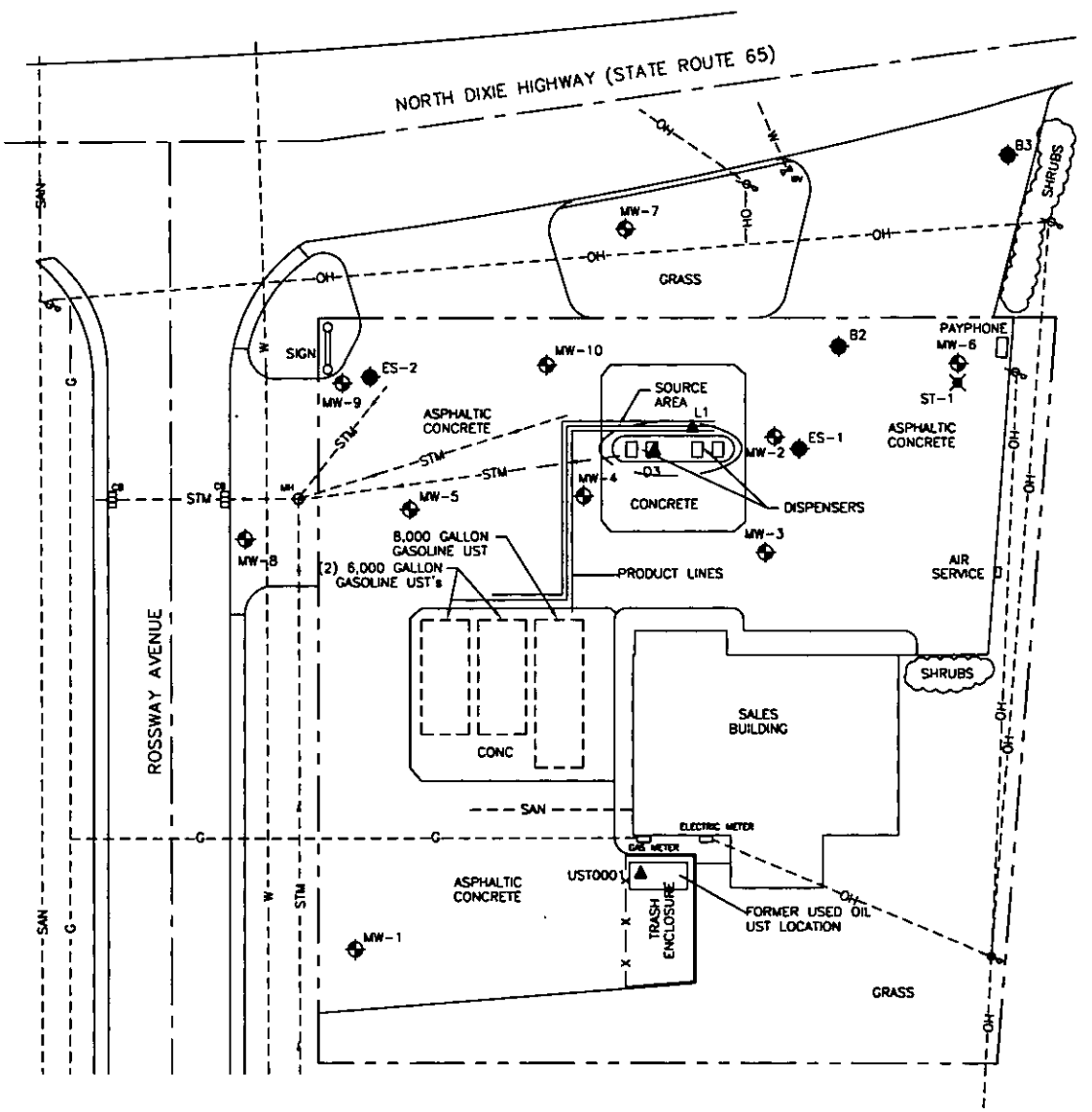


FIGURE 1: SITE VICINITY MAP

SOURCE: USGS 7.5-Minute Topographic Map Rossford Quadrangle 1988 Scale: 1:24,000	ATC ASSOCIATES INC.	**Speedway SuperAmerica LLC** SSA #3642 939 Dixie Highway Rossford, Wood County, Ohio ATC Project No. 08.75116.0057



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

N

30 15 0 30

SCALE IN FEET

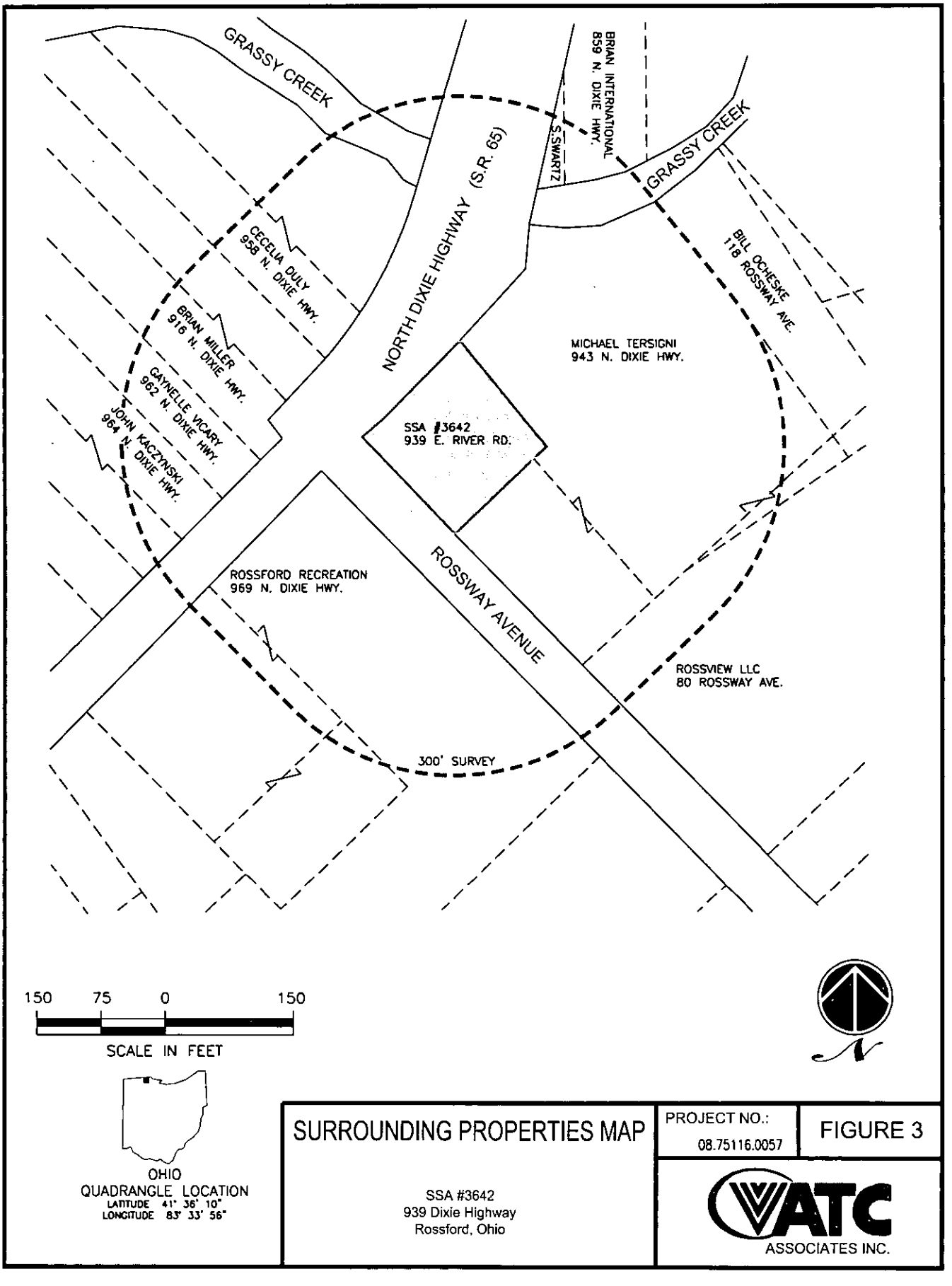
C:\DRAWINGS\SPEEDWAY\3642\SM.DWG

SITE MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057	DATE: 02/01/06
SCALE: 1" = 30'	DRAWN BY: R. Saunders
FIGURE 2	REVIEWED BY: N. Saraceno

ATC ASSOCIATES INC.



SURROUNDING PROPERTIES MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

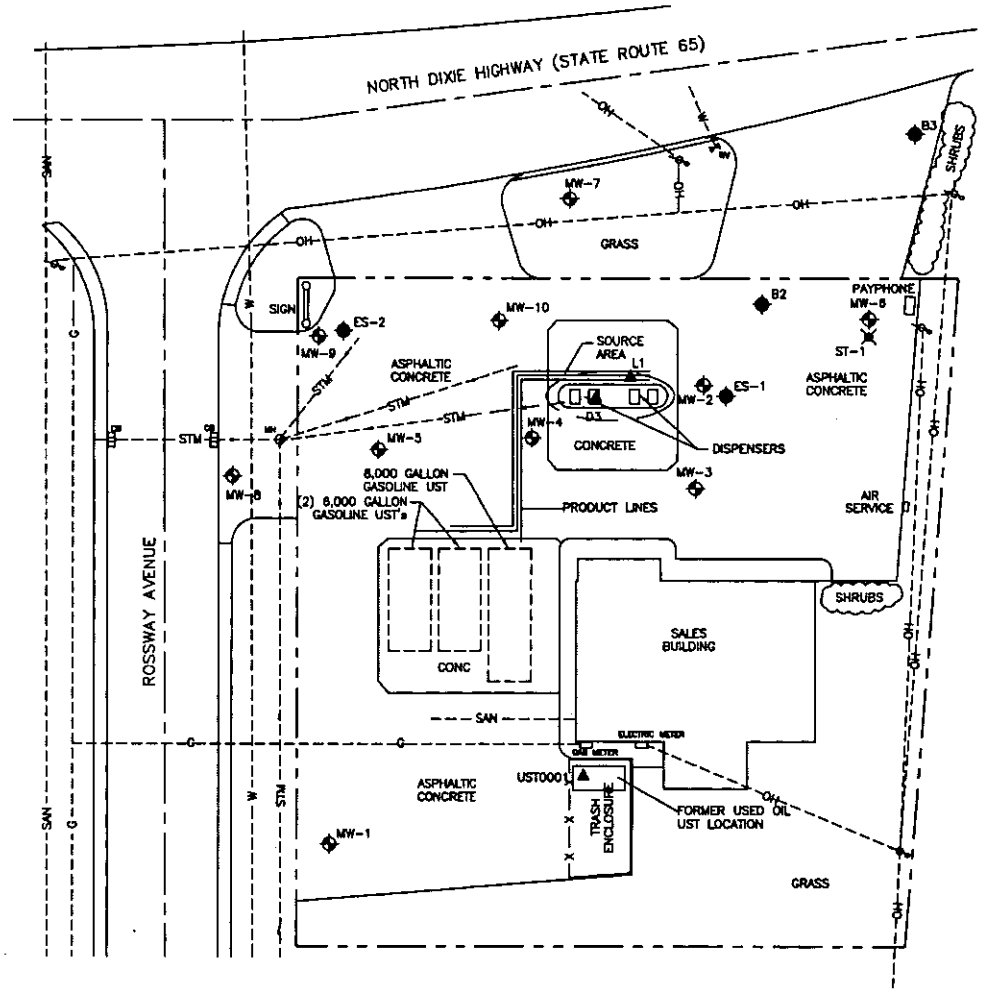
PROJECT NO.: 08.75116.0057

FIGURE 3

VATC ASSOCIATES INC.

Concentrations in PPM

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		9.510	112.000	131.000	147.400	0.890
MW-09 (2-4)	01/17/06	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	01/17/06	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	01/17/06	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	01/17/06	< 0.025	< 0.100	0.840	5.100	< 0.250



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30

SCALE IN FEET

BTEX/MTBE
Soil Analytical Map

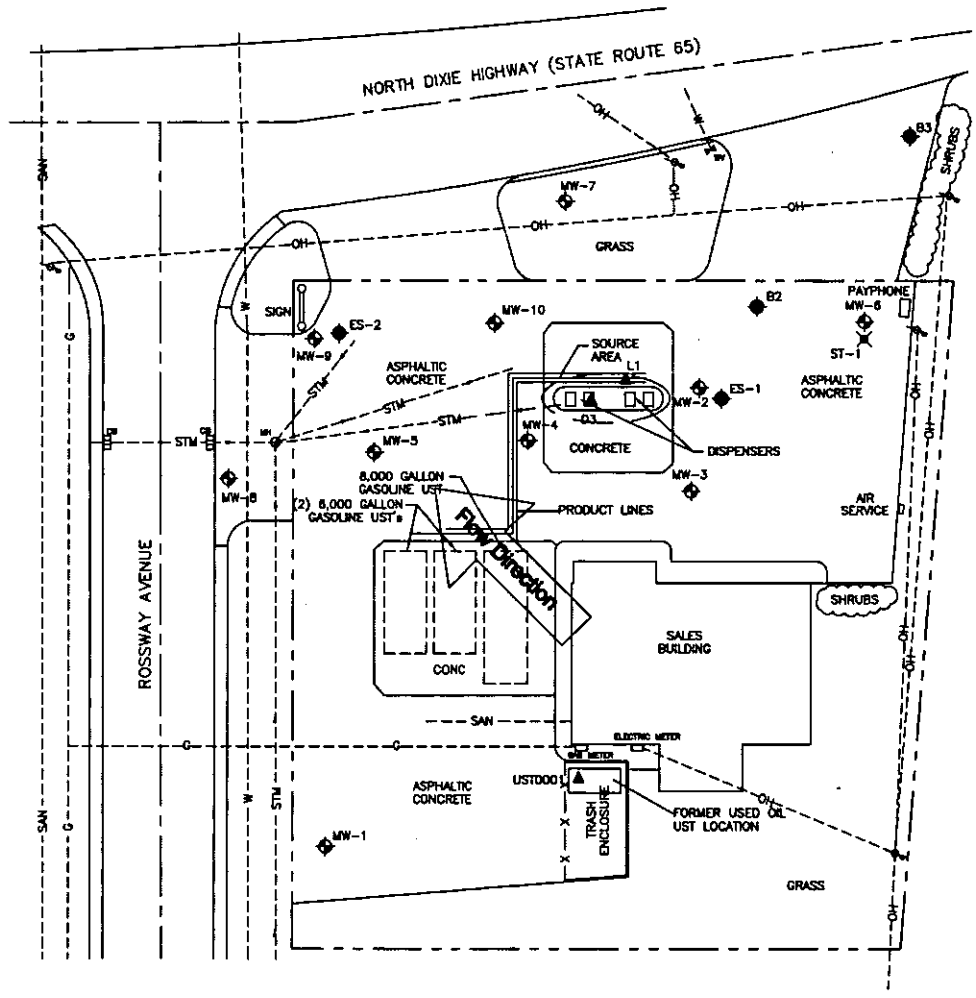
Map by SSA-EIMS - Monday, May 01, 2006

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332

Flow Direction Parameters - 01/19/2006

Sample Location	Description	Elevation	Longitude	Latitude
MW-4	NORTHWEST OF BUILDING	90.77	-83.5624890	41.6051470
MW-7	NORTH OF PROPERTY	88.31	-83.5626500	41.6051790
MW-9	Southwest corner of site	90.16	-83.5625900	41.6051070

North Arrow Angle of Rotation from 0° North: 0°
Flow Direction: 315° (from 0° North)
Flow Gradient: 0.061672 ft/foot



LEGEND:

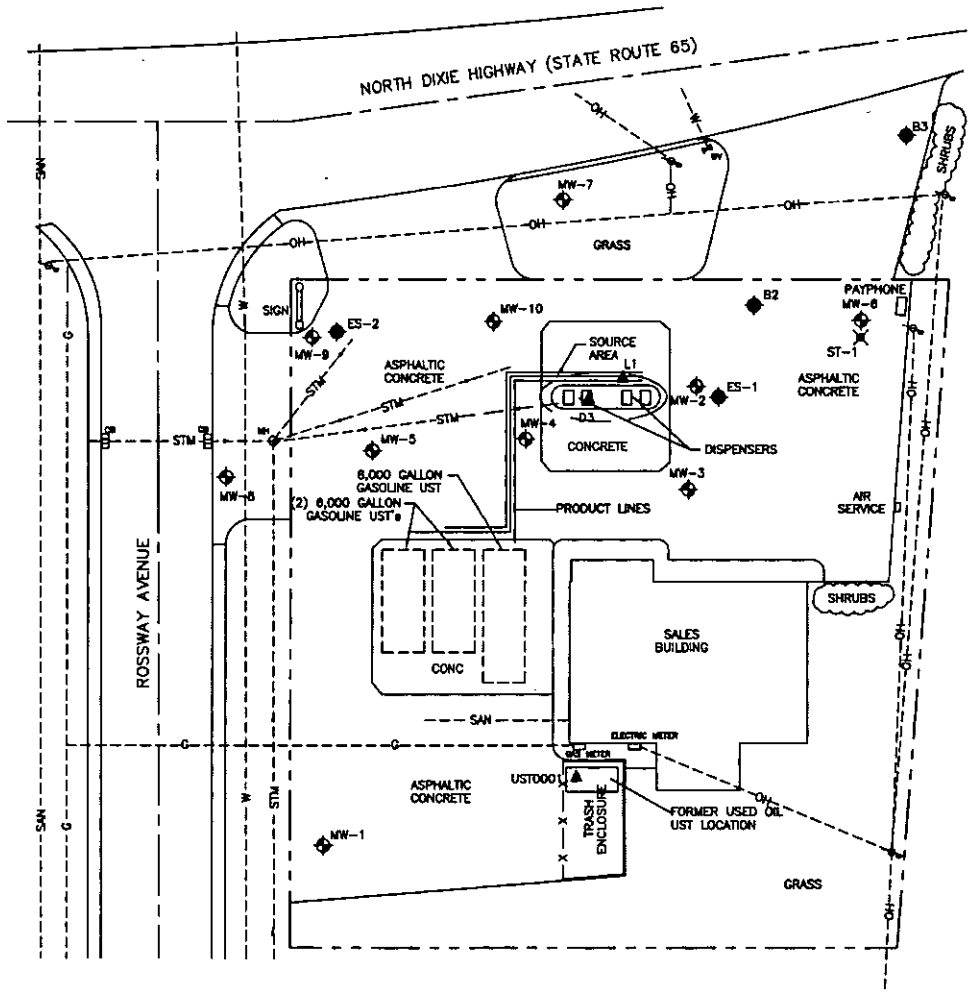
- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30
SCALE IN FEET

BTEX/MTBE
Groundwater Flow Analytical Map

Map by SSA-EIMS - Monday, May 01, 2006

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30

SCALE IN FEET

Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-7	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels		10000.000	1000.000	10000.000	100000.000	40.000
MW-1	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-10	01/19/06	73.000	28.000	95.000	490.000	< 15.000
MW-2	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4	01/19/06	2900.000	< 100.000	2400.000	11000.000	**1500.000**
MW-5	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
MW-6	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-9	01/19/06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-EIMS - Monday, May 01, 2006

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332

APPENDIX A

SOIL BORING LOGS / ODNR WELL INSTALLATION LOGS

ATC ASSOCIATES INC.
DRILLING LOG

Monitoring Well MW-09

Client	Speedway SuperAmerica	Top of Casing Elevation	97.09 feet
ATC Project Number	08.75116.0057	Total Depth of Boring	14 feet
Site Name	SSA #3642	Total Depth of Well	14 feet
Site Address	939 Dixie Highway, Rossford, OH	Borehole Diameter	8-inch
Boring/Well Number	MW-9	Well Diameter	2-inch
Drilling Install Date	1/17/2006	Riser Material/Interval	4 feet PVC, Schedule 40 from 0.25 to 4 feet
Well Install Date	1/17/2006	Screen Material/Interval	10 feet PVC, Schedule 40 from 4 to 14 feet
Drilling Company	Belasco Drilling Services	Slot Size	0.01
Drilling Method	4.25-inch ID steel Hollow Stem Augers	Well Construction Materials	Silica sand filter pack, bentonite seal, concrete
Sample Method	2-in. ID, 24-in. long Split Spoon Samplers	Protective cover	8-inch ID steel manhole cover/well cap& lock
Logged By	N. Saraceno	Depth to Saturated Zone	7 feet
Surface Elevation	97.66 feet	Depth to Water Level	6.93 feet (1/19/06)

Depth (feet)	Sample No.	Well Const.	OVM/PID (ppm)	Blow Counts**	Recovery (percent)	Lithology
2	0-2'		5.4	N/A	hand augered	Asphalt and crushed limestone fill to 1'. SAND (SW), light brown, moist, loose, well-sorted, some gravel fill
4	*2-4'		8.0	N/A	hand augered	Brown, fine-grained, no gravel.
6	*4-6'		9.9	N/A	hand augered	
8 ▼	6-8'		11.4	5 3 1 2	50	Saturated at 7'
10	8-10'		6.7	2 3 3 5	25	Gray silty CLAY (CL), moist, med soft, plastic
12	10-12'		N/A	2 6 7 11	0	(No recovery, piece of wood in tip of spoon)
14	12-14'		8.9	2 4 5 50/5	25	Gray silty CLAY (CL), some wood, trace brick frags., moist, soft, plastic, shale frags in tip of spoon
16						End of exploration at 14 feet due to shale bedrock.
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						

Notes:
▼ initial saturated zone
* sample interval was submitted for analysis
** blow counts per 6 inches per 2-foot sample
OVM/PID organic vapor meter/photoionization detector
ppm parts per million
wt. weight of the driver on the split spoon

Bentonite Concrete
Sand pack Well Screen

ATC ASSOCIATES INC.
DRILLING LOG

Monitoring Well MW-10

Client	*Speedway SuperAmerica*	Top of Casing Elevation	*96.52 feet*
ATC Project Number	*08.75116.0057*	Total Depth of Boring	*22 feet*
Site Name	*SSA #3642*	Total Depth of Well	*22 feet*
Site Address	*939 Dixie Highway, Rossford, OH*	Borehole Diameter	*8-inch*
Boring/Well Number	*MW-9*	Well Diameter	*2-inch*
Drilling Install Date	*1/17/2006*	Riser Material/Interval	*4 feet PVC, Schedule 40 from 0.25 to 12 feet*
Well Install Date	*1/17/2006*	Screen Material/Interval	*10 feet PVC, Schedule 40 from 12 to 22 feet*
Drilling Company	*Belasco Drilling Services*	Slot Size	*0.01*
Drilling Method	*4.25-inch ID steel Hollow Stem Augers*	Well Construction Materials	*Silica sand filter pack, bentonite seal, concrete*
Sample Method	*2-in. ID, 24-in. long Split Spoon Samplers*	Protective cover	*8-inch ID steel manhole cover/well cap& lock*
Logged By	*N. Saraceno*	Depth to Saturated Zone	*16 feet*
Surface Elevation	*96.88 feet*	Depth to Water Level	*12.48 feet (1/19/06)*

Depth (feet)	Sample No.	Well Const.	OVM/PID (ppm)	Blow Counts**	Recovery (percent)	Lithology
						Asphalt and crushed limestone fill to 1'.
2	0-2'		2.5	N/A	hand augered	Silty CLAY (CL), brown, some gray mottling, some gravel, moist, med stiff
4	2-4'		15.8	N/A	hand augered	Gray, little sand
6	4-6'		159	N/A	hand augered	Gray and Brown mottled, no gravel
8	*6-8'		289	4 3 5 5	50	Gray
10	8-10'		122	4 3 2 4	25	Soft from 9.75' to 10'
12	10-12'		71.7	3 4 3 2	25	Silty CLAY (CL), med stiff, moist
14	12-14'		29.7	3 2 4 5	25	Trace brittle fragments, trace roots
16 ▼	*14-16'		9.2	3 3 3 5	50	Dark gray, very moist
18	16-18'		4.1	2 4 4 6	25	Saturated
20	18-20'		14.1	4 4 6 7	75	Silty CLAY (CL), soft, wet, trace wood
22	20-22'		32.3	4 4 7 5	50	
24						End of exploration at 22 feet.
26						
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						

Notes:
▼ initial saturated zone
* sample interval was submitted for analysis
** blow counts per 6 inches per 2-foot sample
OVM/PID organic vapor meter/photoionization detector
ppm parts per million
wt. weight of the driver on the split spoon

Bentonite
Concrete
Sand pack
Well Screen

DNR 7802.05

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

0997986

WELL LOCATION

County Ottawa Township ~~Oregon~~ Bringelson

Owner/Builder (Circle One or Both) Speedway (First) Retail Store (Last)

Address of Well Location 939 (Number) Dixie Hwy (Street Name)

City Rossford Zip Code +4 3642

Permit No. _____ Section/Lot No. (Circle One or Both) _____

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N ☐ X _____ . _____ +/- _____ ft. or m

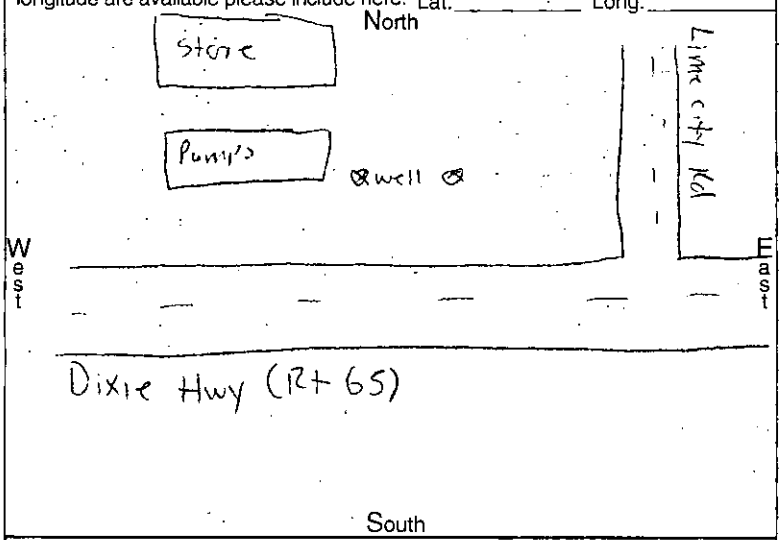
S ☐ Y _____ . _____ +/- _____ ft. or m

Elevation of Well _____ . _____ +/- _____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source _____

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other _____

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: _____ Long: _____



WELL TEST*

Pre-Pumping Static Level _____ ft. Date _____

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other _____

☐ Air ☐ Bailing ☐ Pumping* ☐ Other _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality _____

PUMP/PITLESS

Type of pump N/A Capacity _____ gpm

Pump set at _____ ft. Ritless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling SVC

Address 1519 Alum Creek Dr

City, State, Zip Columbus OH 43209

Signed _____ Date 1-23-06

ODH Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other _____

BOREHOLE/CASING (measured from ground surface)

1☐ Borehole Diameter 8 inches Depth 22 ft.

Casing Diameter 2" in. Length 12 ft. Thickness _____ in.

2☐ Borehole Diameter _____ inches Depth _____ ft.

Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground _____ ft.

Type 1☐ 2☐ Steel 1☐ 2☐ Galv. 1☒ 2☐ PVC 1☐ 2☐ Other _____

Joints 1☒ 2☐ Threaded 1☐ 2☐ Welded 1☐ 2☐ Solvent 1☐ 2☐ Other _____

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.

Type Slotted Material PVC

Set Between 22' ft. and 12' ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 300 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 22 ft. TO 10 ft.

GROUT

Material Bentonite Chips Volume/Weight Used 150 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 10 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Asphalt & Base	0	1
Brown silty clay	1	5
Gray silty clay	5	22

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 1-17-06 Total Depth of Well 22 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7802.05
TYPE OR USE PEN
SELF TRANSCRIBING, PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

0997987

WELL LOCATION

County Ottawa Township Springfield

Owner/Builder (Circle One or Both) Speedway Retail Store (First / Last)

Address of Well Location 939 Dixie Hwy (Number / Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N ☐ X ____ . ____ +/- ____ ft. or m

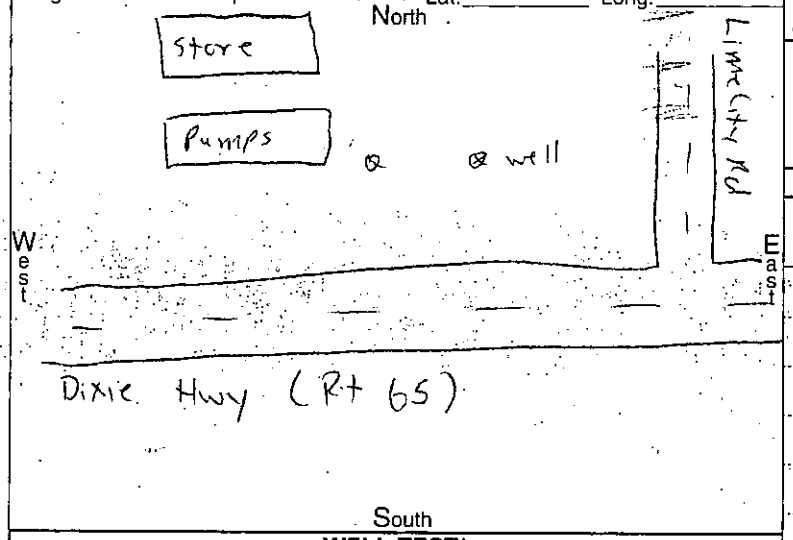
S ☐ Y ____ . ____ +/- ____ ft. or m

Elevation of Well ____ . ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level ____ ft. Date

Measured from: ☐ Top of Casing ☐ Ground Level ☐ Other

☐ Air ☐ Bailing ☐ Pumping ☐ Other

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump ____ Capacity ____ gpm

Pump set at ____ ft. Pitless Type N/A

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling Inc

Address 1519 Alum Creek Dr

City, State, Zip Columbus OH. 43209

Signed [signature] Date 1-23-06

ODH Registration Number N/A

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 inches Depth 14 ft.

Casing Diameter 2 in. Length 4 ft. Thickness ____ in.

2 ☐ Borehole Diameter ____ inches Depth ____ ft.

Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground ____ ft.

Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

Joints 1 ☒ Threaded 1 ☐ Welded 1 ☐ Solvent 1 ☐
2 ☐ 2 ☐ 2 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.

Type slotted Material PVC

Set Between 14 ft. and 4 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 250 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 14 ft. TO 3 ft.

GROUT

Material Bentonite Chips Volume/Weight Used 50 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 3 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Asphalt / Base	0	1
Brown sand	1	5
Gray silty clay	5	14

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 1-17-06 Total Depth of Well 14 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND PURGING RECORDS

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

LABORATORY REPORT

SPL WORKORDER NUMBER(s): 06-01-483

Prepared for: **SPEEDWAY SUPERAMERICA LLC.**

Sampled By: ATC ASSOCIATES, INC.

Site: 939 DIXIE HWY, ROSSFORD,OH

Project: 3642 - SPEEDWAY STATION

Approved by:

S L Grenda

S. L. Grenda, Laboratory Manager

Date: FEB 02 2006

Gary R. Byar, Project Manager [V]

The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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SPL - Texas
8880 Interchange Drive
Houston, TX 77054
(713) 660-0901
Bernadette Fini

SPL - Louisiana
500 Ambassador Caffery Parkway
Scott, LA 70583
(337) 237-4775
Tony Duhon

SPL - Michigan
459 Hughes Drive
Traverse City, MI 49686
(231) 947-5777

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD,OH
Project No.: 08.75116.0057
Project: 3642 - SPEEDWAY STATION

8260 Volatile Results Summary

02-02-2006

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED DATE ANALYZED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	NAPHTHAL. PQL UNITS	CUMENE PQL UNITS	1,2,4TMB PQL UNITS	1.3.5TMB PQL UNITS	EDC PQL UNITS	EDB PQL UNITS	2-M.NAP. PQL UNITS	MTBE PQL UNITS
0601483-01 SOIL	MW-09 (2-4) 01/17/2006 10:15:00 01/31/2006	ND 5 µg/Kg	ND 5 µg/Kg	ND 5 µg/Kg	ND 15 µg/Kg								ND 5 µg/Kg
0601483-02 SOIL	MW-09 (4-6) 01/17/2006 10:20:00 01/31/2006	ND 5 µg/Kg	ND 5 µg/Kg	ND 5 µg/Kg	ND 15 µg/Kg								ND 5 µg/Kg
0601483-03 SOIL	MW-10 (6-8) 01/17/2006 15:10:00 01/31/2006	ND 25 µg/Kg	ND 100 µg/Kg	840 50 µg/Kg	5100 150 µg/Kg								ND 250 µg/Kg
0601483-04 SOIL	MW-10 (14-16) 01/17/2006 15:30:00 01/31/2006	7 5 µg/Kg	ND 5 µg/Kg	ND 5 µg/Kg	17 15 µg/Kg								ND 5 µg/Kg

ND = Not Detected.
8260B, Volatile Organics

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
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MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0601483-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00006665 ***FUNDED***
DATE: 02/02/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD,OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-09 (2-4)

PROJECT NO: 08.75116.0057
MATRIX: SOIL
DATE SAMPLED: 01/17/2006 10:15:00
DATE RECEIVED: 01/28/2006

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	5	µg/Kg
Ethylbenzene	ND	5	µg/Kg
Toluene	ND	5	µg/Kg
Xylenes (total)	ND	15	µg/Kg
Methyl-tertiary-butyl ether	ND	5	µg/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	60.4 µg/Kg	70	47	132
Toluene-d8	60.4 µg/Kg	70	70	138
4-Bromofluorobenzene	60.4 µg/Kg	71	43	141

ANALYZED BY: DWC DATE/TIME: 01/31/2006 16:10:00
METHOD: 8260B Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0601483-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006665 ***FUNDED***
DATE: 02/02/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD,OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-09 (4-6)

PROJECT NO: 08.75116.0057
MATRIX: SOIL
DATE SAMPLED: 01/17/2006 10:20:00
DATE RECEIVED: 01/28/2006

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	5	µg/Kg
Ethylbenzene	ND	5	µg/Kg
Toluene	ND	5	µg/Kg
Xylenes (total)	ND	15	µg/Kg
Methyl-tertiary-butyl ether	ND	5	µg/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	60.4 µg/Kg	70	47	132
Toluene-d8	60.4 µg/Kg	70	70	138
4-Bromofluorobenzene	60.4 µg/Kg	73	43	141

ANALYZED BY: DWC DATE/TIME: 01/31/2006 16:41:00
METHOD: 8260B Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0601483-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006665 ***FUNDED***
DATE: 02/02/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD,OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-10 (6-8)

PROJECT NO: 08.75116.0057
MATRIX: SOIL
DATE SAMPLED: 01/17/2006 15:10:00
DATE RECEIVED: 01/28/2006

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	ND	25	µg/Kg
Ethylbenzene	840	50	µg/Kg
Toluene	ND	100	µg/Kg
Xylenes (total)	5100	150	µg/Kg
Methyl-tertiary-butyl ether	ND	250	µg/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	118 µg/Kg	67	47	132
Toluene-d8	118 µg/Kg	102	70	138
4-Bromofluorobenzene	118 µg/Kg	110	43	141

ANALYZED BY: DWC DATE/TIME: 01/31/2006 20:52:00
METHOD: 8260B Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0601483-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00006665 ***FUNDED***
DATE: 02/02/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD,OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-10 (14-16)

PROJECT NO: 08.75116.0057
MATRIX: SOIL
DATE SAMPLED: 01/17/2006 15:30:00
DATE RECEIVED: 01/28/2006

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Benzene	7	5	µg/Kg
Ethylbenzene	ND	5	µg/Kg
Toluene	ND	5	µg/Kg
Xylenes (total)	17	15	µg/Kg
Methyl-tertiary-butyl ether	ND	5	µg/Kg

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	60.4 µg/Kg	68	47	132
Toluene-d8	60.4 µg/Kg	71	70	138
4-Bromofluorobenzene	60.4 µg/Kg	71	43	141

ANALYZED BY: DWC DATE/TIME: 01/31/2006 17:13:00
METHOD: 8260B Soil, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

QUALITY CONTROL DOCUMENTATION

KPFILES7R - Transfer GC/MS data files to Remote - GRB

Data Files Batched to Remote 02-01-2006 10:38:57MS06A31070100

A:\DATA\7A31025.TXT	0601451-01A
A:\DATA\7A31027.TXT	0601451-02A
A:\DATA\7A31029.TXT	0601451-03A
A:\DATA\7A31033.TXT	0601483-03A
A:\DATA\7A31035.TXT	0601484-10A
A:\DATA\7A31037.TXT	0601490-05A
A:\DATA\7A31039.TXT	0601490-06A
A:\DATA\7A31041.TXT	0601484-12A
A:\DATA\7A31043.TXT	0601490-08A
A:\DATA\7A31045.TXT	0601484-09A
A:\DATA\7A31047.TXT	0601484-07A

Files on Drive G: in C:\BATCHES\6A310701 directory
Use VOCBATRM to batch above files into SAM readable file

MS06A31070100

Spike Recovery and RPD Summary Report - MeOH

Method Path : C:\MSDCHEM\1\METHODS\
Method File : A8260PW.M
Title : 8260B Water Method - Concentrator A
Last Update : Tue Jan 31 15:29:32 2006
Response Via : Initial Calibration
Batch ID : MS06A31070100

Datafile Path: D:\MSDCHEM\1\DATA\06A31\

------Sample-------
File : 7A31025.D
Name : 0601451-01A Acq Time: 31 Jan 2006 6:48 pm

------Spike--------
File : 7A31013.D
Name : 0601451-01A MS (990789-64-03) Acq Time: 31 Jan 2006 3:42 pm

--Spike Duplicate--
File : 7A31015.D
Name : 0601451-01A MSD (990789-64-03) Acq Time: 31 Jan 2006 4:13 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	2400	3405	3385	141	141	1	28	58-125
Toluene	6.0	2400	2753	2698	115	112	2	57	73-115
Chlorobenzene	2.3	2400	2693	2644	112	110	2	28	74-109
Benzene	2.1	2400	2660	2604	111	109	2	32	61-125

- Fails Limit Check

8260PW.M Wed Feb 01 09:34:09 2006

8260B LCS Recovery Sheet

Acq. Method File: A8260PW.M
Sample Name: 50 ppb LCS STD (990789-64-03)
Instrument Name: VOA7
Sample Multiplier: 1
Spike concentration: 50
Analyzed by: DWC
Date: 31 Jan 2006 3:11 pm
Batch # : MS06A31070100

Compound	Sample Results	% Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	41.20	82	65	136
Trichloroethene	59.46	119	66	120
Toluene	48.84	98	79	113
Chlorobenzene	47.67	95	81	106
Benzene	45.69	91	67	124

8260B Method Blank Report

Acq. Method File:	A8260PW.M
Sample Name:	MeOH BLANK
Instrument Name:	VOA7
Sample Multiplier:	50
Analyzed by:	DWC
Date:	31 Jan 2006 6:17 pm
Batch ID:	MS06A31070100

Compound	Sample Results (µg/Kg)	PQL
Dichlorodifluoromethane	ND	250
Chloromethane	ND	250
Vinyl Chloride	ND	40
Bromomethane	ND	200
Chloroethane	ND	250
Trichlorofluoromethane	ND	100
Acetone	ND	1000
t-Butanol	ND	2500
1,1-Dichloroethene	ND	50
Iodomethane	ND	100
Methylene Chloride	ND	100
Carbon disulfide	ND	250
Acrylonitrile	ND	100
Methyl-tertiary-butyl ether	ND	250
trans-1,2-Dichloroethene	ND	50
cis-1,2-Dichloroethene	ND	50
Diisopropyl ether	ND	250
Vinyl acetate	ND	5000
1,1-Dichloroethane	ND	50
Ethyl-tertiary-butyl ether	ND	250
2-Butanone	ND	750
2,2-Dichloropropane	ND	50
Chloroform	ND	50
Bromochloromethane	ND	100
1,1-Dichloropropene	ND	50
Tertiary-amyl-methyl ether	ND	250
1,2-Dichloroethane	ND	50
Trichloroethene	ND	50
2-Chloroethylvinylether	ND	5000
4-Methyl-2-pentanone	ND	2500
2-Hexanone	ND	2500
Toluene	ND	100
1,3-Dichloropropane	ND	50
Tetrachloroethene	ND	50
Chlorobenzene	ND	50
Ethylbenzene	ND	50
1,1,1,2-Tetrachloroethane	ND	100
m,p-Xylene	ND	100

Compound	Sample Results (µg/Kg)	PQL
o-Xylene	ND	50
Styrene	ND	50
Isopropylbenzene	ND	250
1,2,3-Trichloropropane	ND	100
trans-1,4-Dichloro-2-butene	ND	50
n-Propylbenzene	ND	100
1,3,5-Trimethylbenzene	ND	100
Bromobenzene	ND	100
2-Chlorotoluene	ND	50
4-Chlorotoluene	ND	50
t-butylbenzene	ND	50
1,2,4-Trimethylbenzene	ND	100
sec-butylbenzene	ND	50
p-Isopropyltoluene	ND	100
1,3-Dichlorobenzene	ND	100
1,1,2,2-Tetrachloroethane	ND	50
1,1,1-Trichloroethane	ND	50
Carbon Tetrachloride	ND	50
Benzene	ND	25
1,2-Dichloropropane	ND	50
Bromodichloromethane	ND	100
Dibromomethane	ND	250
cis-1,3-Dichloropropene	ND	50
trans-1,3-Dichloropropene	ND	50
1,1,2-Trichloroethane	ND	50
Dibromochloromethane	ND	100
1,2-Dibromoethane	ND	20
Bromoform	ND	100
1,4-Dichlorobenzene	ND	100
n-butylbenzene	ND	50
1,2-Dichlorobenzene	ND	100
1,2-Dibromo-3-chloropropane	ND	50
Hexachlorobutadiene	ND	50
1,2,4-Trichlorobenzene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250
2-Methylnaphthalene	ND	250

:FILES - Utility to Transfer GC/MS data files to Floppy - GRB

ata Files Batched to Floppy Drive A: 02-01-2006 15:07:56

.:\DATA\5A31009.TXT	0601483-01A
.:\DATA\5A31010.TXT	0601483-02A
.:\DATA\5A31011.TXT	0601483-04A
.:\DATA\5A31012.TXT	0601424-04A
.:\DATA\5A31013.TXT	0601423-03A
.:\DATA\5A31014.TXT	0601423-14A
.:\DATA\5A31015.TXT	0601423-13A
.:\DATA\5A31016.TXT	0601423-12A
.:\DATA\5A31017.TXT	0601484-01A
.:\DATA\5A31022.TXT	0601484-05A
.:\DATA\5A31023.TXT	0601484-11A

iles on Drive A: in A:\DATA directory
se VOCBATCH to batch above files into SAM readable file

MS06A31050100

Spike Recovery and RPD Summary Report - SOIL

Method : C:\HPCHEM\1\METHODS\8260PS.M (RTE Integrator)
Title : 8260B Soil Method
Last Update : Fri Jan 27 12:35:38 2006
Response via : Initial Calibration
Batch ID : MS06A31050100

Non-Spiked Sample: 5A10009.D

	Spike Sample	Spike Duplicate Sample
File ID :	5A31005.D	5A31006.D
Sample :	0601115-06A MS (99079-64-03)	0601115-06A MSD (99079-64-03)
Acq Time:	31 Jan 2006 2:05 pm	31 Jan 2006 2:36 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	42	44	84	88	4	22	49-128
Trichloroethene	0.0	50	52	50	104	101	3	35	33-121
Toluene	0.4	50	42	41	83	82	1	30	18-144
Chlorobenzene	0.0	50	43	41	85	83	2	34	20-124
Benzene	0.1	50	44	44	88	87	1	47	18-197

- Fails Limit Check

8260B LCS Recovery Sheet

Acq. Method File:	8260PS
Sample Name:	50 ppb LCS STD (99079-64-03)
Instrument Name:	VOA5
Sample Multiplier:	1
Spike concentration:	50
Analyzed by:	DWC
Date:	31 Jan 2006 1:33 pm
Batch ID:	MS06A31050100

Compound	Sample Results	% Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	45.73	91	61	133
Trichloroethene	56.30	113	64	130
Toluene	45.21	90	70	123
Chlorobenzene	46.53	93	67	127
Benzene	45.91	92	65	125

8260B Method Blank Report

Acq. Method File:	8260PS
Sample Name:	BLANK
Instrument Name:	VOA5
Sample Multiplier:	1
Analyzed by:	DWC
Date:	31 Jan 2006 3:07 pm
Batch ID:	MS06A31050100

Compound	Sample Results (µg/Kg)	PQL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5
Acetone	ND	100
t-Butanol	ND	100
1,1-Dichloroethene	ND	5
Iodomethane	ND	10
Methylene Chloride	ND	10
Carbon disulfide	ND	25
Acrylonitrile	ND	10
Methyl-tertiary-butyl ether	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Diisopropyl ether	ND	10
Vinyl acetate	ND	50
1,1-Dichloroethane	ND	5
Ethyl-tertiary-butyl ether	ND	10
2-Butanone	ND	25
2,2-Dichloropropane	ND	5
Chloroform	ND	5
Bromochloromethane	ND	10
1,1-Dichloropropene	ND	5
Tertiary-amyl-methyl ether	ND	10
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
2-Chloroethylvinylether	ND	10
4-Methyl-2-pentanone	ND	25
2-Hexanone	ND	25
Toluene	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
m,p-Xylene	ND	10

Compound	Sample Results (µg/Kg)	PQL
o-Xylene	ND	5
Styrene	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
trans-1,4-Dichloro-2-butene	ND	5
n-Propylbenzene	ND	5
1,3,5-Trimethylbenzene	ND	5
Bromobenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
t-butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-butylbenzene	ND	5
p-Isopropyltoluene	ND	5
1,3-Dichlorobenzene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
Dibromomethane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Dibromochloromethane	ND	5
1,2-Dibromoethane	ND	5
Bromoform	ND	5
1,4-Dichlorobenzene	ND	5
n-butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
Hexachlorobutadiene	ND	5
1,2,4-Trichlorobenzene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
2-Methylnaphthalene	ND	5

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00006665 060148B

A-1

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Keith A. Hughes
PHONE #: (937)863-7642 FAX #: (937)863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: SPL Michigan
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis S. Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville Road
Brecksville, Ohio 44141
PHONE #: 440-838-7177 FAX #: 440-838-7181
SAMPLER: Nathan Saraceno
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
MW-09 (2-4)	01/17/2006 10:15am	S	1	4 OZ	COOL	BTEX/MTBE 8260B	
MW-09 (4-6)	01/17/2006 10:20am	S	1	4 OZ	COOL	BTEX/MTBE 8260B	
MW-10 (6-8)	01/17/2006 03:10pm	S	1	4 OZ	COOL	BTEX/MTBE 8260B	
MW-10 (14-16)	01/17/2006 03:30pm	S	1	4 OZ	COOL	BTEX/MTBE 8260B	

Relinquished by: Nate Saraceno FedEx Date 1-27-06 Time 1115
Relinquished by: Date 1-28-06 Time
Special Reporting Requirements: Job #:08.75116.0057 PO#:06-08-0002

Received by:
Received by laboratory: JR
Lab Notes:

Date Time
Date 1-28-06 Time 9:30
Temp 5.5

JLT LABORATORIES, INC.

GEOTECHNICAL, GEOSYNTHETIC AND MATERIALS TESTING AND RESEARCH

March 21, 2002
02LS038.08

Parsons Engineering Science, Inc.
19101 Villaview Road
Cleveland, OH 44119

Attn: Andrew Shrock

RE: GEOTECHNICAL TEST RESULTS
939 EAST RIVER ROAD, ROSSFORD, OHIO
SSA #3642

Dear Mr. Shrock:

JLT Laboratories, Inc. (JLT) is pleased to submit the results of geotechnical testing performed on two (2) shelby tube samples identified as ST-1 (5-7') and MW-6 (19-21') for the above reference project. Testing performed included the following:

Atterberg Limits	ASTM D-4318
USCS Classification	ASTM D-2487
Dry Bulk Density	N/A
Grain Size Analysis	ASTM D-422
Specific Gravity	ASTM D-854
Moisture Content	ASTM D-2216
Total Porosity	Corps of Engineers
Volumetric Air Content	Corps of Engineers
Volumetric Water Content	Corps of Engineers
Vertical Hydraulic Conductivity	ASTM D-5084

All testing was performed in accordance with the above referenced test standards and subject to JLT's internal QA/QC and data validation procedures.

We appreciate the opportunity to provide our services and look forward to working with you again. Should you have any questions, comments or require additional information, please do not hesitate to call. Thank you.

Sincerely,

JLT LABORATORIES, INC.

John Boschuk, Jr., P.E.
President

Enclosures
JB/rdo
\wp9\letter\0266

938 South Central Avenue • Canonsburg, Pennsylvania 15317 Tel: (724) 746-4441 Fax: (724) 745-4261

02LS038.08

Geotechnical Sample Chain-of-Custody/Test Plan

TO: **J&L Laboratories**
938 South Central Ave
Canonsburg, PA 15317
Attn: Jack Boschuk (724) 746-4441

From: Parsons Engineering Science Inc.
19101 Villaview Rd
Cleveland, Ohio 44119
Contact: **Adam Tucker** (216) 486-9005 Fax (216) 486-6119

Sample Site: **SSA # 3642** (939 E. River Road, Rossford, Ohio)
Parsons Job # 741479.00320

Sample ID	Sample Date	Container	Required Tests	Method
ST-1 (5-7')	3/11/2002	30" Shelby	Atterberg Limits	D-4318
			USCS classification	D-2487
			Dry bulk density	NA
			Grain size	D-422
			Specific gravity	D-854
			Moisture content	D-2216
			Total porosity	NA
			Volumetric air content	NA
			Volumetric water content	NA
			Vertical hydraulic conductivity	D-5084
MW-6 (19-21')	3/11/2002	30" Shelby	Atterberg Limits	D-4318
			USCS classification	D-2487
			Dry bulk density	NA
			Grain size	D-422
			Specific gravity	D-854
			Moisture content	D-2216
			Total porosity	NA
			Volumetric air content	NA
			Volumetric water content	NA
			Vertical hydraulic conductivity	D-5084

Relinquished by: 3/14/02 4:00 PM

Received by: Regina D. Oako 3/15/02

Report to:

ATTERBERG LIMITS DETERMINATION

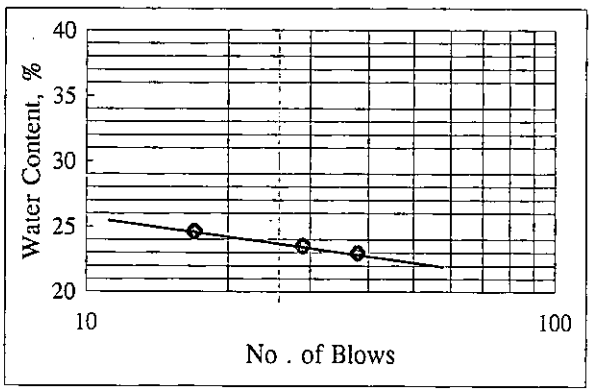
ASTM D-4318

JLT

CLIENT:	Parsons Engineering Science	**JOB No.:**	02LS038.08
PROJECT:	939 East River Road, Rossford, Ohio	**DATE OF TEST**	03/21/02
	SSA No. 3642	**TESTED BY:**	DB
SAMPLE ID:	ST-1 at 5 to 7 feet		
Tube Type :	30 inch	**CHECKED BY:**	JB

LIQUID LIMIT DETERMINATION

Can No.	AT-86	AT-61	AT-77		
Wt. of wet soil + can, g	13.8175	13.5114	12.7894		
Wt. of dry soil + can, g	11.931	11.7524	11.2002		
Wt. of Can	4.2741	4.2702	4.2767		
Wt. of dry soil, g	7.6569	7.4822	6.9235		
Wt. of Moisture, g	1.8865	1.7590	1.5892		
Water content, %	24.64	23.51	22.95		
No. of blows	17	29	38		



LIQUID LIMIT = 24
PLASTIC LIMIT = 18
PLASTICITY INDEX = 6

PLASTIC LIMIT DETERMINATION

Can No.	AT-911	AT-60			
Wt. of wet soil + can, g	14.4075	14.3796			
Wt. of dry soil + can, g	12.8625	12.8364			
Wt. of Can, g	4.3051	4.2977			
Wt. of dry soil, g	8.5574	8.5387			
Wt. of Moisture, g	1.5450	1.5432			
Water content, %	18.05	18.07			
Plastic Limit	18				

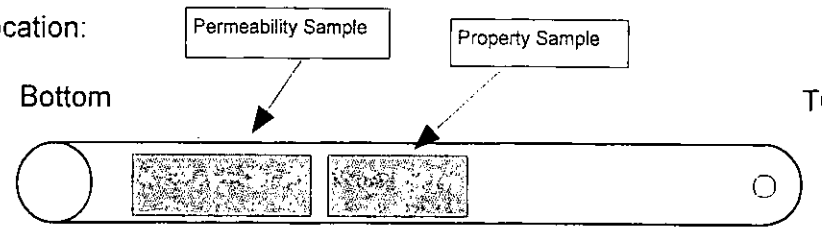
JLT *Laboratories, Inc.* 938 S. Central Ave, Canonsburg, Pa. Tel: 724-746-4441 Fax: 724-745-4261

DENSITY AND MOISTURE OF TUBE SAMPLES

JLT

Client:	Parsons Engineering Science	Job No. :	02LS038.08
Project:	939 E. River Rd, Rossford, Ohio	Date :	03/20/02
Site ID :	SSA No. 3642	Perf'd By :	DB/RO
Tube ID:	ST-1 at 5 to 7 feet	Chk'd By :	JB

Sample Location:



Moisture - Density Determination

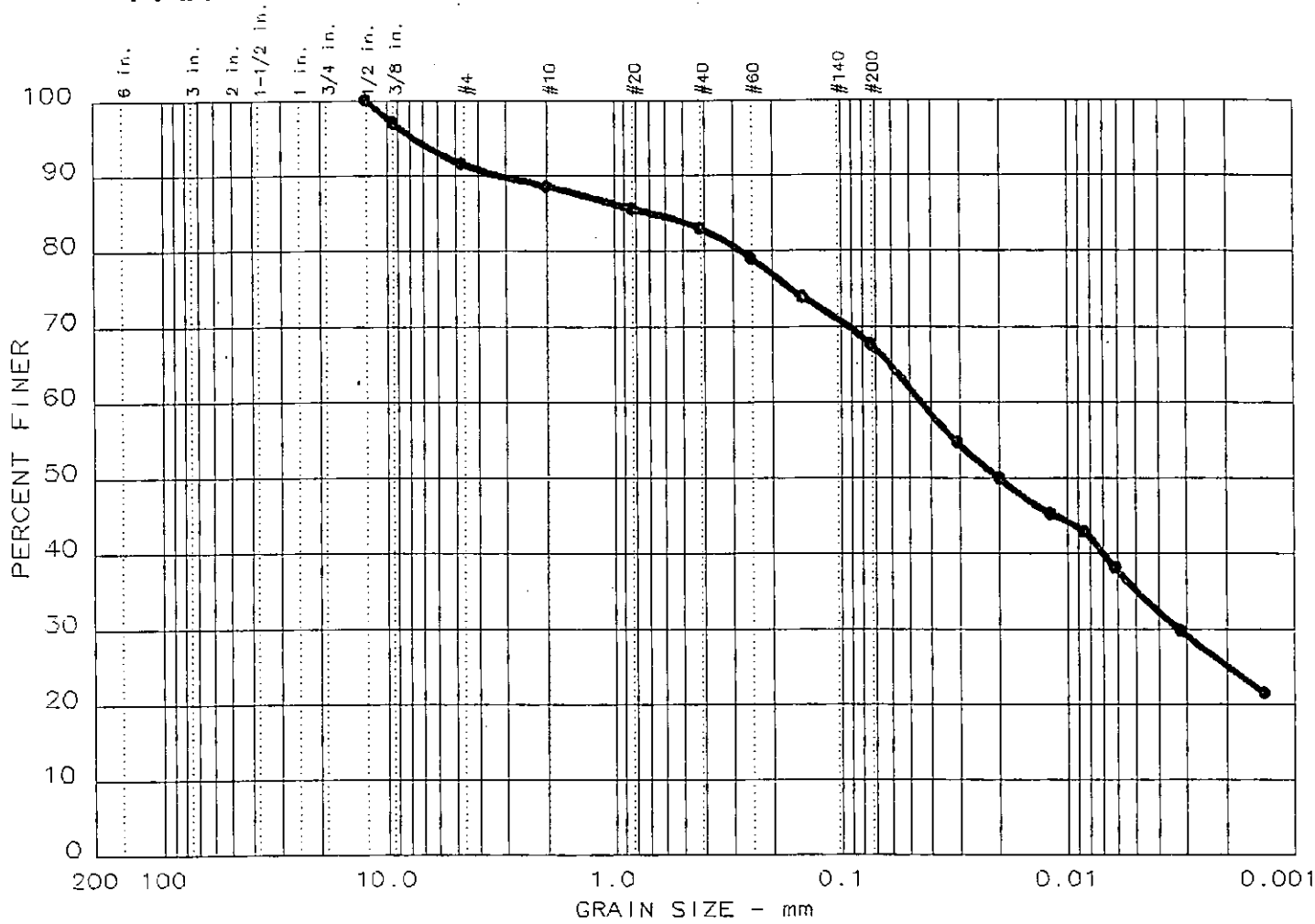
Tare ID	E-40	
Section Length :	5.00	inches
Inside Diameter of Sample:	2.80	inches
Wt. of Wet Soil + Tube + Tare	1486.5	grams
Wt. of Dry Soil + Tube + Tare	1304.3	grams
Weight of Tube Section only	389.1	grams
Wt. of Tare only	8.3	grams
Weight of Wet Soil only	1089.1	grams
Weight of Dry Soil Only	906.9	grams
Weight of Water in Sample	182.2	grams
Moisture Content	***20.09***	***%***
Bulk Wet Density:	***134.6***	***pcf***
Bulk Dry Density :	***112.1***	***pcf***

Secondary Moisture Determination from Trimmings

Tare ID	B71	
Wt. of Wet Soil + Tare	215.1	grams
Wt. of Dry Soil + Tare	183.3	grams
Wt. of Tare	8.5	grams
Weight of Water	31.8	grams
Weight of Dry Soil	174.8	grams
Moisture Content	18.19	%

JLT *Laboratories, Inc.*

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY	USCS
●	5	0.0	8.5	23.9	42.5	25.1	CL-ML

SIEVE inches size	PERCENT FINER ●		
0.5	100.0		
0.375	96.9		
GRAIN SIZE			
D_{60} D_{30} D_{10}	0.00		
COEFFICIENTS			
C_c C_u			

SIEVE number size	PERCENT FINER ●		
4	91.5		
10	88.4		
20	85.5		
40	82.8		
60	78.9		
100	73.9		
200	67.6		

Sample information:
● 939 East River Road
ST-1 @ 5-7 ft SSA#3642
Rossford, Ohio

Remarks:
LL=24, PL=18, PI=6
As-recv'd M/C = 18.19%
ASTM D-422/D-4318/D-2216

JLT Laboratories, Inc.

Project No.: 02LS038.08
Project: Parsons Engineering Science

Date: 3/21/02 Data Sheet No. 1

SPECIFIC GRAVITY OF SOIL SOLIDS

ASTM D-854 - Latest Revision 2001

JLT

Client:	Parson Engineering Science	**Job Number:**	02LS038.08
Project:	939 E. River Road, Rossford, Ohio SSA:3642	**Date:**	03/21/02
Material:	Sandy silty CLAY (CL-ML)	**Tested By:**	DB/MLB
Sample I.D.:	ST-1 at 5 to 7 feet	**Checked By:**	JB

Method :	Procedure B (Dry)		
Fluid :	De-aired Distilled Water	**Temperature (deg C) (t):**	21.8
Particle Size :	Minus No. 4 Sieve	**Correction Factor (1) :**	0.99961
		Density Correction Factor (1) :	0.99782
		Air Removal Method :	Vacuum

	REPLICATE			
Description	***1***	***2***	***3***	**Average**
Wt. flask + water + soil = Mpws	392.31	391.11	391.74	
Wt. flask + water = Mpw	344.80	343.60	344.20	
Wt. flask + water = Mpw at 20 deg. C	344.05	342.85	343.45	
Evap. dish no.	J-1	J-2	J-3	
Wt. of evap. dish	41.23	39.37	39.42	
Wt of dish +dry soil	116.23	114.37	114.42	
Wt. of dry soil = Ms	75.00	75.00	75.00	
Gs = Ms / (Mpw-(Mpws-Ms)) at t	**2.728**	**2.728**	**2.731**	
Specific Gravity at 20 deg. C	**2.73**	**2.73**	**2.73**	***2.73***

(1) Correction Factors derived from Table 2 of ASTM

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PHYSICAL PROPERTY CALULATIONS FOR TUBE SAMPLES
Corps of Engineers Procedures

JLT

Client	:	Parsons Engineering Science	Date	: 03/21/02
Project	:	939 E. River Road, Rossford, Ohio	Project No.	: 02LS038.08
Sample No	:	ST-1 at 5 to 7 feet	Perf'd By	: DB
Site No	:	SSA - 3642	Chk'd By	: JB
Description	:	Sandy silty CLAY (CL-ML)		

UNIT WEIGHT CALCULATION

"e"	Height	=	4.00	in	
"e"	Diameter	=	2.80	in	
	Area	=	6.1575	sq in	
	Volume	=	24.63	cu in	
	Volume	=	403.69	cc	Vt
"e"	***Moisture***	=	***16.10***	*%*	
	Moisture	=	0.161	dec	
"e"	Wet Weight	=	872.7	grms	
	Dry Weight	=	751.7	grms	Ws
	Wet Density	=	***134.9***	*pcf*	
	Dry Density	=	***116.2***	*pcf*	

"e" = Data entry location (Total of 5)

VOID RATIO

	Dry Weight	=	751.68	grms	Ws
"e"	***Specific Gravity***	=	***2.73***		***Gs***
	Total Volume	=	403.69	cc	Vt
	Volume of Solids	=	275.34	cc	Vs= Ws/Gs
	Void Ratio	=	***0.4661***		***(V t- Vs) / Vs***

Specific Gravity : Assumed [ ] Computed [X]

POROSITY = (V t- Vs) / Vt * 100%

Total Volume	=	403.69	cc	Vt
Volume Solids	=	275.34	cc	Vs
Porosity, n	=	***31.79***	*%*	

DEGREE OF SATURATION =
(Dry Density*moisture*Gs)/(Gs*62.4-Dry Density)*100%

Dry Density	=	116.16	pcf
Moisture	=	0.161	dec
Spec. Gravity	=	2.73	
Saturation	=	***94.21***	*%*

PORE VOLUME = Vt - Vs = Tot.. Volume - Volume of Solids

Vt	=	403.69	cc
Vs	=	275.34	cc
Pore Volume	=	***128.347***	*cc*

VOLUMETRIC WATER = Tot. Vol. of Water / Total Volume

VOLUMETRIC AIR = Tot. Vol. of Air/ Total Volume

SUMMARY OF RESULTS

Wet Density	=	***134.86***	*pcf*
Dry Density	=	***116.16***	*pcf*
Moist. Content	=	***16.10***	*%*
Void Ratio	=	***0.4661***	
Porosity	=	***31.79***	*%*
Saturation	=	***94.21***	*%*
Pore Volume	=	***128.35***	*cc*
Volumetric Water	=	29.98	%
Volumetric Air	=	***1.81***	*%*

Reference: Laboratory Soils Testing; EM 1110-2-1906; Appendix II, "Unit Weight, Void Ratio, Porosity and Degree of Saturation"

JLT *Laboratories, Inc.*

SUMMARY OF FLEX WALL PERMEABILITY TEST RESULTS

ASTM D-5084 (Method A)

JLT

Client	:	Parsons Engineering Science	Date	:	03-21-02
Project Location	:	939 E. River Road, Rossford, Ohio	Job No.	:	02LS038.08
Sample Number	:	ST-1 at 5 to 7 feet	Tested By	:	MLB/DB
Site Number	:	SSA-3642	Checked By	:	JB
Description	:	Sandy silty CLAY (CL-ML)			
Permeant Fluid	:	De-Aired Water	Spec. Gravity	:	2.73 Computed

Physical Property Data

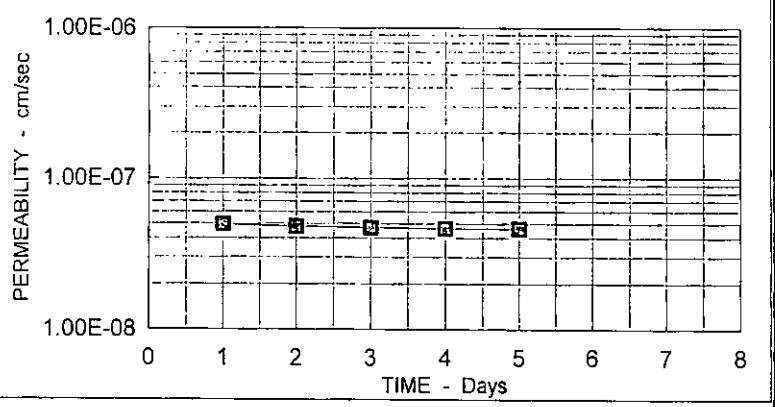
Initial Height (in)	:	4.00	Final Height (in)	:	3.99
Initial Diameter (in)	:	2.80	Final Diameter (in)	:	2.79
Initial Wet Weight (g)	:	872.70	Final Wet Weight (g)	:	873.90
Wet Density (pcf)	:	134.86	Wet Density (pcf)	:	136.75
Moisture Content %	:	16.10	Moisture Content %	:	16.24
Dry Density (pcf)	:	116.16	Dry Density (pcf)	:	117.64
Initial Void Ratio	:	0.4665	Final Void Ratio	:	0.4480
Saturation , %	:	94.2	Saturation , %	:	99.0

Test Parameters

Fluid	:	De-Aired Water	**Effective**		
Cell Pressure (psi)	:	65.00	**Confining Pressure (psi)**	:	**10**
Head Water (psi)	:	56.80	Gradient	:	24.90
Tail Water (psi)	:	53.20			

Permeability Input Data

Flow, Q	(cc)	:	5.50
Length, L	(in)	:	3.99
Area, A	(sqin)	:	6.10
Head, h	**(psi)**	**:**	**3.60**
Time, t	(min)	:	2015.00
Temp, T	(Deg C)	:	21.0



Computed Permeability

PERMEABILITY, K = 4.63E-08 (cm/sec) at 20 Degrees C

ATTERBERG LIMITS DETERMINATION

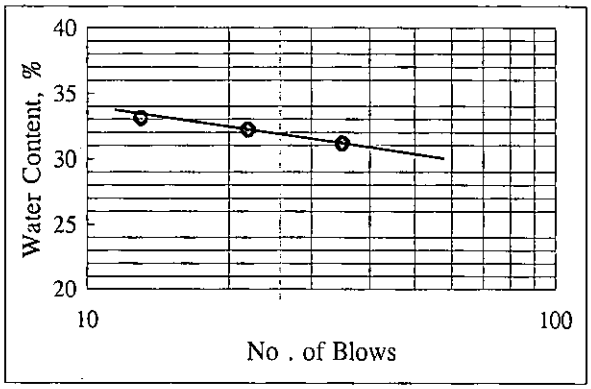
ASTM D-4318

JLT

CLIENT:	Parsons Engineering Science	**JOB No.:**	02LS038.08
PROJECT:	939 East River Road, Rossford, Ohio	**DATE OF TEST**	03/21/02
	SSA No. 3642	**TESTED BY:**	DB
SAMPLE ID:	MW-6 at 19 to 21 feet		
Tube Type :	30 inch	**CHECKED BY:**	JB

LIQUID LIMIT DETERMINATION

Can No.	AT-78	AT-11	AT-56		
Wt. of wet soil + can, g	15.7844	13.2648	12.7846		
Wt. of dry soil + can, g	12.9806	11.0164	10.7706		
Wt. of Can	4.2757	4.2254	4.3050		
Wt. of dry soil, g	8.7049	6.7910	6.4656		
Wt. of Moisture, g	2.8038	2.2484	2.0140		
Water content, %	32.21	33.11	31.15		
No. of blows	22	13	35		



LIQUID LIMIT	=	**32**
PLASTIC LIMIT	=	**19**
PLASTICITY INDEX	=	**13**

PLASTIC LIMIT DETERMINATION

Can No.	AT-18	AT-2			
Wt. of wet soil + can, g	13.0400	12.7651			
Wt. of dry soil + can, g	11.6377	11.4303			
Wt. of Can, g	4.2642	4.2954			
Wt. of dry soil, g	7.3735	7.1349			
Wt. of Moisture, g	1.4023	1.3348			
Water content, %	19.02	18.71			
Plastic Limit		19			

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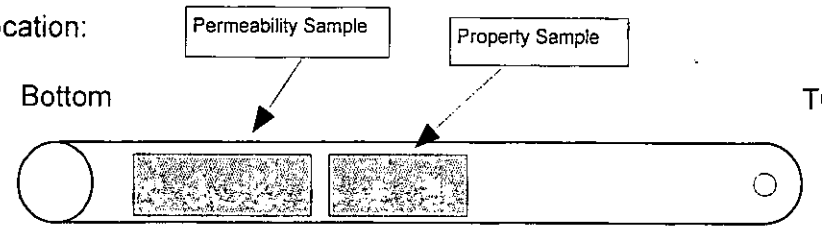
DENSITY AND MOISTURE OF TUBE SAMPLES

JLT

Client:	Parsons Engineering Science	Job No. :	02LS038.08
Project:	939 E. River Rd, Rossford, Ohio	Date :	03/20/02
Site ID :	SSA No. 3642	Perf'd By :	DB/RO
Tube ID:	MW-6 at 19 to 21 feet	Chk'd By :	JB

Sample Location:



Moisture - Density Determination

Tare ID	B-70	
Section Length :	5.00	inches
Inside Diameter of Sample:	2.80	inches
Wt. of Wet Soil + Tube + Tare	1535.1	grams
Wt. of Dry Soil + Tube + Tare	1379.0	grams
Weight of Tube Section only	384.1	grams
Wt. of Tare only	8.5	grams
Weight of Wet Soil only	1142.5	grams
Weight of Dry Soil Only	986.4	grams
Weight of Water in Sample	156.1	grams
Moisture Content	***15.83***	***%***
Bulk Wet Density:	***141.2***	***pcf***
Bulk Dry Density :	***121.9***	***pcf***

Secondary Moisture Determination from Trimmings

Tare ID	B73	
Wt. of Wet Soil + Tare	201.9	grams
Wt. of Dry Soil + Tare	174.9	grams
Wt. of Tare	8.4	grams
Weight of Water	27.0	grams
Weight of Dry Soil	166.5	grams
Moisture Content	16.22	%

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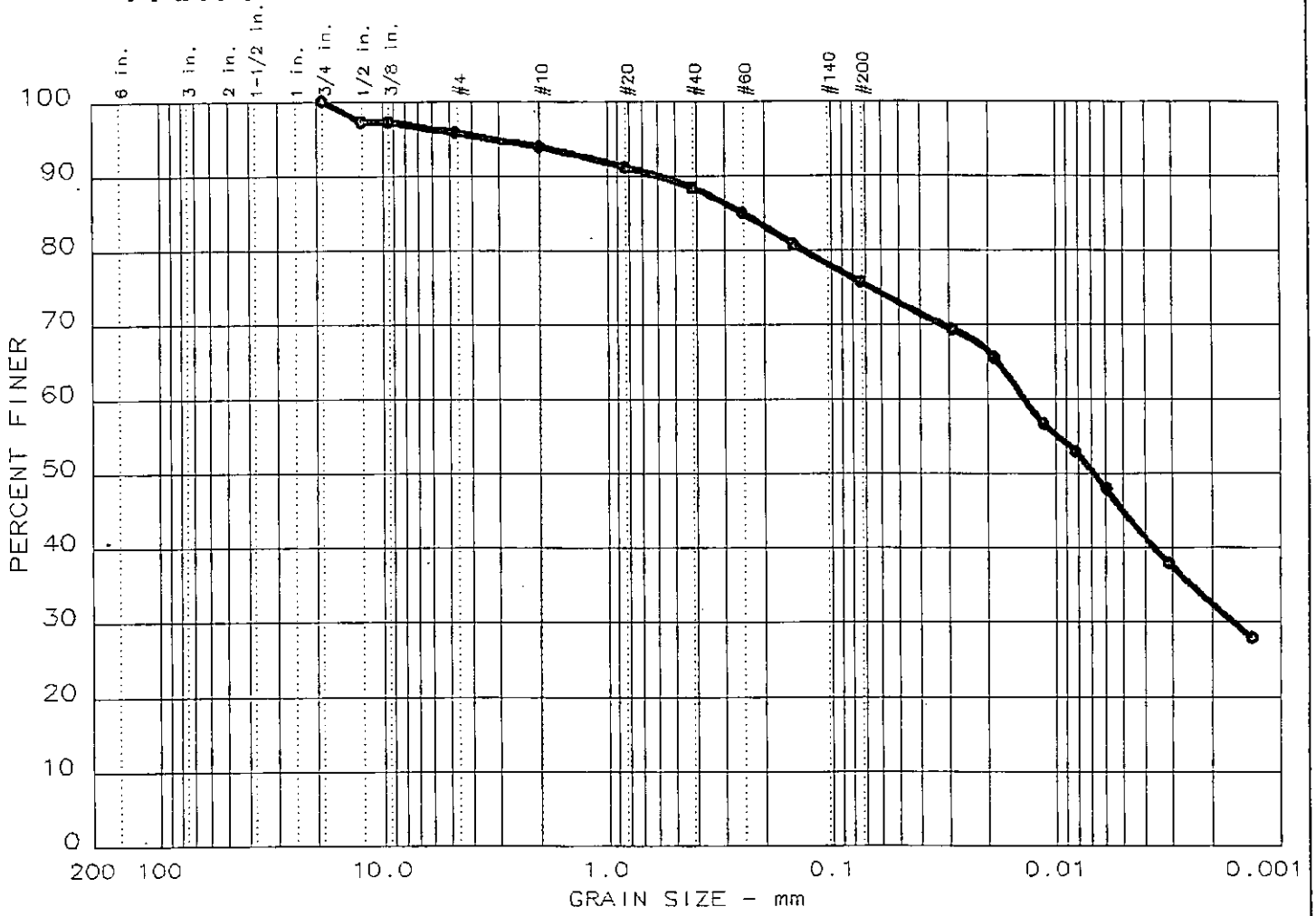
PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	%+75 mm	% GRAVEL	% SAND	% SILT	% CLAY	USCS
●	6	0.0	4.2	20.2	43.3	32.3	CL

SIEVE inches size	PERCENT FINER ●		
0.75	100.0		
0.5	97.2		
0.375	97.2		
	GRAIN SIZE		
D_{60} D_{30} D_{10}	0.00		
	COEFFICIENTS		
C_c C_u			

SIEVE number size	PERCENT FINER ●		
4	95.8		
10	93.8		
20	91.1		
40	88.3		
60	84.9		
100	80.8		
200	75.6		

Sample information:
● 939 East River Road
MW-6 @ 19-21 ft SSA3642
Rossford, Ohio

Remarks:
LL=32, PL=19, PI=13
As-recv'd M/C = 16.22%
ASTM D-422/D-4318/D-2216

JLT Laboratories, Inc.

Project No.: 02LS038.08
Project: Parsons Engineering Science

Date: 3/21/02 Data Sheet No. 1

SPECIFIC GRAVITY OF SOIL SOLIDS

ASTM D-854 - Latest Revision 2001

JLT

Client:	Parson Engineering Science	**Job Number:**	02LS038.08
Project:	939 E. River Road, Rossford, Ohio SSA:3642	**Date:**	03/21/02
Material:	Sandy silty CLAY (CL)	**Tested By:**	DB/MLB
Sample I.D.:	MW-6 at 19 to 21 feet	**Checked By:**	JB

Method :	Procedure B (Dry)		
Fluid :	De-aired Distilled Water	**Temperature (deg C) (t):**	21.8
Particle Size :	Minus No. 4 Sieve	**Correction Factor (1) :**	0.99961
		Density Correction Factor (1) :	0.99782
		Air Removal Method :	Vacuum

	REPLICATE			
Description	***1***	***2***	***3***	**Average**
Wt. flask + water + soil = Mpws	391.78	392.34	391.13	
Wt. flask + water = Mpw	344.20	344.80	343.60	
Wt. flask + water = Mpw at 20 deg. C	343.45	344.05	342.85	
Evap. dish no.	R-4	R-9	R-2	
Wt. of evap. dish	33.77	33.69	33.84	
Wt of dish +dry soil	108.77	108.69	108.84	
Wt. of dry soil = Ms	75.00	75.00	75.00	
Gs = Ms / (Mpw-(Mpws-Ms)) at t	**2.735**	**2.731**	**2.730**	
Specific Gravity at 20 deg. C	**2.73**	**2.73**	**2.73**	***2.73***

(1) Correction Factors derived from Table 2 of ASTM

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PHYSICAL PROPERTY CALULATIONS FOR TUBE SAMPLES
Corps of Engineers Procedures

JLT

Client	:	Parsons Engineering Science	Date	: 03/21/02
Project	:	939 E. River Road, Rossford, Ohio	Project No.	: 02LS038.08
Sample No	:	MW-6 at 19 to 21 feet	Perf'd By	: DB
Site No	:	SSA - 3642	Chk'd By	: JB
Description	:	Sandy silty CLAY (CL)		

UNIT WEIGHT CALCULATION

"e"	Height	=	4.00	in	
"e"	Diameter	=	2.80	in	
	Area	=	6.1575	sq in	
	Volume	=	24.63	cu in	
	Volume	=	403.69	cc	Vt
"e"	***Moisture***	=	***16.35***	*%*	
	Moisture	=	0.164	dec	
"e"	Wet Weight	=	881.6	grms	
	Dry Weight	=	757.7	grms	Ws
	Wet Density	=	***136.2***	*pcf*	
	Dry Density	=	***117.1***	*pcf*	

"e" = Data entry location (Total of 5)

VOID RATIO

	Dry Weight	=	757.71	grms	Ws
"e"	***Specific Gravity***	=	***2.73***		***Gs***
	Total Volume	=	403.69	cc	Vt
	Volume of Solids	=	277.55	cc	Vs= Ws/Gs
	Void Ratio	=	***0.4545***		***(V t- Vs) / Vs***

Specific Gravity : Assumed [ ] Computed [X]

POROSITY = (V t- Vs) / Vt * 100%

Total Volume	=	403.69	cc	Vt
Volume Solids	=	277.55	cc	Vs
Porosity, n	=	***31.25***	*%*	

DEGREE OF SATURATION =
(Dry Density*moisture*Gs)/(Gs*62.4-Dry Density)*100%

Dry Density	=	117.09	pcf
Moisture	=	0.164	dec
Spec. Gravity	=	2.73	
Saturation	=	***98.13***	*%*

PORE VOLUME = Vt - Vs = Tot., Volume - Volume of Solids

Vt	=	403.69	cc
Vs	=	277.55	cc
Pore Volume	=	***126.136***	*cc*

VOLUMETRIC WATER = Tot. Vol. of Water / Total Volume

VOLUMETRIC AIR = Tot. Vol. of Air/ Total Volume

SUMMARY OF RESULTS

Wet Density	=	***136.24***	*pcf*
Dry Density	=	***117.09***	*pcf*
Moist. Content	=	***16.35***	*%*
Void Ratio	=	***0.4545***	
Porosity	=	***31.25***	*%*
Saturation	=	***98.13***	*%*
Pore Volume	=	***126.14***	*cc*
Volumetric Water	=	30.69	%
Volumetric Air	=	***0.56***	*%*

Reference: Laboratory Soils Testing; EM 1110-2-1906; Appendix II, "Unit Weight, Void Ratio, Porosity and Degree of Saturation"

JLT *Laboratories, Inc.*

SUMMARY OF FLEX WALL PERMEABILITY TEST RESULTS

ASTM D-5084 (Method A)

JLT

Client	:	Parsons Engineering Science	Date	:	03-21-02
Project Location	:	939 E. River Road, Rossford, Ohio	Job No.	:	02LS038.08
Sample Number	:	MW-6 at 19 to 21 feet	Tested By	:	MLB/DB
Site Number	:	SSA-3642	Checked By	:	JB
Description	:	Sandy silty CLAY (CL)			
Permeant Fluid	:	De-Aired Water	Spec. Gravity	:	2.73 Computed

Physical Property Data

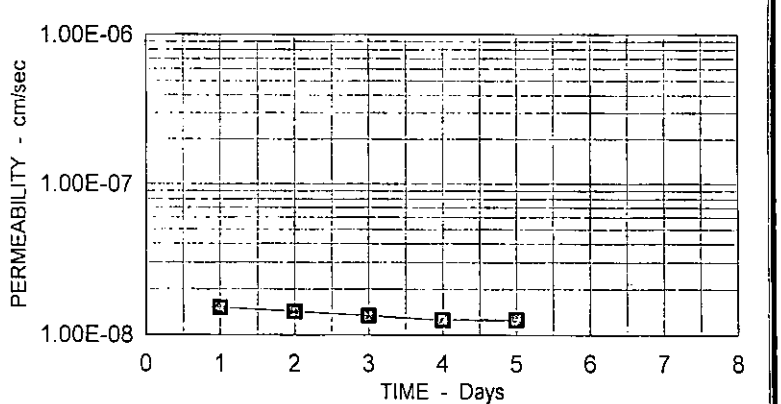
Initial Height (in)	:	4.00	Final Height (in)	:	4.00
Initial Diameter (in)	:	2.80	Final Diameter (in)	:	2.80
Initial Wet Weight (g)	:	881.60	Final Wet Weight (g)	:	884.10
Wet Density (pcf)	:	136.24	Wet Density (pcf)	:	136.62
Moisture Content %	:	16.35	Moisture Content %	:	16.68
Dry Density (pcf)	:	117.09	Dry Density (pcf)	:	117.09
Initial Void Ratio	:	0.4548	Final Void Ratio	:	0.4548
Saturation ,%	:	98.1	Saturation ,%	:	100.1

Test Parameters

Fluid	:	De-Aired Water	**Effective**		
Cell Pressure (psi)	:	65.00	**Confining Pressure (psi)**	:	**10**
Head Water (psi)	:	56.80	Gradient	:	24.84
Tail Water (psi)	:	53.20			

Permeability Input Data

Flow, Q	(cc)	:	1.50
Length, L	(in)	:	4.00
Area, A	(sqin)	:	6.16
Head, h	**(psi)**	**:**	**3.60**
Time, t	(min)	:	2018.00
Temp, T	(Deg C)	:	21.0



Computed Permeability

PERMEABILITY, K = 1.25E-08 (cm/sec) at 20 Degrees C

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LABORATORY REPORT

SPL WORKORDER NUMBER(s): **05-09-493**

Prepared for: **SPEEDWAY SUPERAMERICA LLC.**

Sampled By: ATC ASSOCIATES, INC.

Site: 939 DIXIE HWY, ROSSFORD, OH

Project: 3642 - SPEEDWAY STATION

Approved by:

S L Grenda

S. L. Grenda, Laboratory Manager Date: _____

Gary R. Byar, Project Manager GRB

The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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SPL - Michigan
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(231) 947-5777

Summary Report 09-29-2005

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD, OH
Project No.: 08.75116.0057
Project: 3642 - SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0509493-01 WATER	TRIP BLANK 08/03/2005 12:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-02 WATER	MW-6 09/19/2005 13:10:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-03 WATER	MW-7 09/19/2005 13:14:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-04 WATER	MW-2 09/19/2005 13:19:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-05 WATER	MW-3 09/19/2005 13:22:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-06 WATER	MW-1 09/19/2005 14:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0509493-07 WATER	MW-8 09/19/2005 14:03:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								7.0 5 ug/L
0509493-08 WATER	MW-5 09/19/2005 14:05:00	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L								1700 30 ug/L
0509493-09 WATER	MW-4 09/19/2005 14:09:00	3700 100 ug/L	ND 100 ug/L	2600 100 ug/L	12000 100 ug/L								2600 300 ug/L
0509493-10 WATER	Duplicate 09/19/2005 14:10:00	3700 100 ug/L	ND 100 ug/L	2900 100 ug/L	13000 100 ug/L								2300 300 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

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459 HUGHES DRIVE
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FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: TRIP BLANK

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 08/03/2005 12:00:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	91

Method 8021B ***
Analyzed by: JMG
Date: 09/24/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
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TRAVERSE CITY, MICHIGAN 49686
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FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0509493-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-6

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:10:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	89

Method 8021B ***
Analyzed by: JMG
Date: 09/26/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-7

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:14:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	89

Method 8021B ***
Analyzed by: JMG
Date: 09/26/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spi-inc.com

Certificate of Analysis No. M1-0509493-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-2

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:19:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	99
4-Bromofluorobenzene	90

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-05

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-3

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 13:22:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	93

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
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Certificate of Analysis No. M1-0509493-06

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-1

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:00:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	93

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-07

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-8

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:03:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	7.0	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	101
4-Bromofluorobenzene	94

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-08

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-5

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:05:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1700	30 P	ug/L
BENZENE	ND	10 P	ug/L
TOLUENE	ND	10 P	ug/L
ETHYLBENZENE	ND	10 P	ug/L
TOTAL XYLENE	ND	10 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	108
4-Bromofluorobenzene	97

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0509493-09

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-4

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:09:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2600	300 P	ug/L
BENZENE	3700	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2600	100 P	ug/L
TOTAL XYLENE	12000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	106
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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FAX (231) 947-7455
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Certificate of Analysis No. M1-0509493-10

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00005359 ***FUNDED***
DATE: 09/29/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: Duplicate

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 09/19/2005 14:10:00
DATE RECEIVED: 09/22/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2300	300 P	ug/L
BENZENE	3700	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2900	100 P	ug/L
TOTAL XYLENE	13000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	111
4-Bromofluorobenzene	101

Method 8021B ***
Analyzed by: JMG
Date: 09/27/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

QUALITY CONTROL DOCUMENTATION

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 3333050923030300

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	110	110	81 - 123
Toluene	ND	100	110	110	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	110	110	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	24	120	23	115	4.26	55	19 - 189
BENZENE	ND	20	22	110	22	110	0	26	56 - 160
TOLUENE	ND	20	20	100	21	105	4.88	26	58 - 154
ETHYLBENZENE	ND	20	18	90.0	20	100	10.5	27	47 - 162
O XYLENE	ND	20	19	95.0	20	100	5.13	30	38 - 177
M & P XYLENE	ND	20	20	100	22	110	9.52	27	30 - 188

Analyst: JMG

Sequence Date: 09/23/05

SPL ID of sample spiked: 0509324-03A

Sample File ID: 3I20038.TX0

Method Blank File ID:

Blank Spike File ID: 3I23030.TX0

Matrix Spike File ID: 3I23027.TX0

Matrix Spike Duplicate File ID: 3I23028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0509469-04A 0509469-01A 0509461-07A 0509493-01A 0509472-05A 0509472-02A 0509472-01A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444050926040300

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	100	100	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	19	95.0	21	105	10.0	55	19 - 189
BENZENE	ND	20	20	100	25	125	22.2	26	56 - 160
TOLUENE	ND	20	18	90.0	22	110	20.0	26	58 - 154
ETHYLBENZENE	ND	20	19	95.0	22	110	14.6	27	47 - 162
O XYLENE	ND	20	18	90.0	21	105	15.4	30	38 - 177
M & P XYLENE	ND	20	20	100	23	115	14.0	27	30 - 188

Analyst: JMG

Sequence Date: 09/26/05

SPL ID of sample spiked: 0509459-12A

Sample File ID: 4I23047.TX0

Method Blank File ID:

Blank Spike File ID: 4I26030.TX0

Matrix Spike File ID: 4I26027.TX0

Matrix Spike Duplicate File ID: 4I26028.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0509493-05A 0509493-06A 0509493-07A 0509493-09A
0509493-10A 0509449-01A 0509449-02A 0509449-03A
0509449-04A 0509449-05A 0509449-06A 0509449-07A
0509449-08A 0509449-09A 0509449-10A 0509449-11A
0509493-02A 0509493-03A 0509493-04A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444050927040100

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	71 - 129
Benzene	ND	100	97	97.0	81 - 123
Toluene	ND	100	95	95.0	81 - 123
EthylBenzene	ND	100	95	95.0	77 - 121
O Xylene	ND	100	96	96.0	74 - 130
M & P Xylene	ND	100	93	93.0	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	18	90.0	22	110	20.0	55	19 - 189
BENZENE	ND	20	20	100	24	120	18.2	26	56 - 160
TOLUENE	ND	20	19	95.0	22	110	14.6	26	58 - 154
ETHYLBENZENE	ND	20	20	100	22	110	9.52	27	47 - 162
O XYLENE	ND	20	20	100	22	110	9.52	30	38 - 177
M & P XYLENE	ND	20	20	100	22	110	9.52	27	30 - 188

Analyst: JMG

Sequence Date: 09/27/05

SPL ID of sample spiked: 0509459-10A

Sample File ID: 4I23045.TX0

Method Blank File ID:

Blank Spike File ID: 4I27004.TX0

Matrix Spike File ID: 4I27005A.TX0

Matrix Spike Duplicate File ID: 4I27006.TX0

* = Values Outside QC Range. < = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0509499-05A 0509500-08A 0509467-05A 0509493-08A
0509499-02A 0509500-03A 0509499-03A 0509499-07A
0509500-13A 0509468-02A 0509536-20A 0509536-12A
0509536-07A 0509432-13A 0509467-04A 0509438-03A

05-09-493

B-4

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00005359

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Keith A. Hughes
PHONE #: (937)863-7642 FAX #: (937)863-6078
DIRECT STATE PAY SITE
CODE: 47 - Ground Water Monitoring/Closure Activities
TYPE: L - Analytical

LAB: SPL Michigan
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis S. Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville Road
Brecksville, Ohio 44141
PHONE #: 440-838-7177 FAX #: 440-838-7181
SAMPLER: Heather Bennett
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	08/03/2005 12:00pm	W	1	VOA	HCL	BTEX \ MTBE 8021B	
MW-6	09/19/2005 01:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-7	09/19/2005 01:14pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-2	09/19/2005 01:19pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-3	09/19/2005 01:22pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-1	09/19/2005 02:00pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-8	09/19/2005 02:03pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-5	09/19/2005 02:05pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-4	09/19/2005 02:09pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
Duplicate	09/19/2005 02:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Heather M. Bennett	Date 9/20/05	Time 8:29	Received by:	Date	Time
Relinquished by: FedEx	Date 9-22-05	Time	Received by laboratory: TR	Date 9-22-05	Time 9:30
Special Reporting Requirements: 08.75116.0057 05-08-0223			Lab Notes:	Temp 5.0	

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
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LABORATORY REPORT

SPL WORKORDER NUMBER(s): 06-01-448

Prepared for: **SPEEDWAY SUPERAMERICA LLC.**

Sampled By: ATC ASSOCIATES, INC.

Site: 939 DIXIE HWY, ROSSFORD, OH

Project: 3642 - SPEEDWAY STATION

Approved by:

S. L. Grenda, Laboratory Manager

Date: FEB 01 2006

Gary R. Byar, Project Manager

The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD, OH
Project No.: 08.75116.0057
Project: 3642 - SPEEDWAY STATION

Summary Report 01-31-2006

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0601448-01 WATER	TRIP BLANK 10/11/2006 12:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-02 WATER	MW-9 01/19/2006 09:25:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-03 WATER	MW-10 01/19/2006 09:28:00	73 5 ug/L	28 5 ug/L	95 5 ug/L	490 5 ug/L								ND 15 ug/L
0601448-04 WATER	MW-7 01/19/2006 09:31:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-05 WATER	MW-6 01/19/2006 09:36:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-06 WATER	MW-2 01/19/2006 09:40:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-07 WATER	MW-4 01/19/2006 09:44:00	2900 100 ug/L	ND 100 ug/L	2400 100 ug/L	11000 100 ug/L								1500 300 ug/L
0601448-08 WATER	Duplicate 01/19/2006 09:45:00	2900 100 ug/L	ND 100 ug/L	2300 100 ug/L	11000 100 ug/L								1500 300 ug/L
0601448-09 WATER	MW-3 01/19/2006 10:30:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-10 WATER	MW-5 01/19/2006 10:33:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								680 15 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

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Summary Report 01-31-2006

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD, OH
Project No.: 08.75116.0057
Project: 3642 - SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0601448-11 WATER	MW-8 01/19/2006 10:36:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0601448-12 WATER	MW-1 01/19/2006 10:40:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L

ND = Not Detected.
BTEX/MTBE - Method 8021B ***

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Certificate of Analysis No. M1-0601448-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: TRIP BLANK

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 10/11/2006 12:00:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	102
4-Bromofluorobenzene	94

Method 8021B ***
Analyzed by: JMG
Date: 01/27/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-9

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:25:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	102
4-Bromofluorobenzene	96

Method 8021B ***
Analyzed by: JMG
Date: 01/27/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-10

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:28:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	15 P	ug/L
BENZENE	73	5 P	ug/L
TOLUENE	28	5 P	ug/L
ETHYLBENZENE	95	5 P	ug/L
TOTAL XYLENE	490	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	107
4-Bromofluorobenzene	105

Method 8021B ***
Analyzed by: JMG
Date: 01/30/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-7

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:31:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	106
4-Bromofluorobenzene	99

Method 8021B ***
Analyzed by: JMG
Date: 01/27/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-05

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-6

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:36:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	102
4-Bromofluorobenzene	95

Method 8021B ***
Analyzed by: JMG
Date: 01/27/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-06

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-2

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:40:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	102
4-Bromofluorobenzene	96

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-09

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-3

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 10:30:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	102
4-Bromofluorobenzene	95

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-07

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-4

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:44:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1500	300 P	ug/L
BENZENE	2900	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2400	100 P	ug/L
TOTAL XYLENE	11000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	109
4-Bromofluorobenzene	102

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-10

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-5

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 10:33:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	680	15 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	103
4-Bromofluorobenzene	99

Method 8021B ***
Analyzed by: JMG
Date: 01/30/2006

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-08

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: Duplicate

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 09:45:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1500	300 P	ug/L
BENZENE	2900	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	2300	100 P	ug/L
TOTAL XYLENE	11000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	110
4-Bromofluorobenzene	103

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-11

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.# 00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-8

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 10:36:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	101
4-Bromofluorobenzene	92

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0601448-12

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Keith Hughes

P.O.#
00006613 ***FUNDED***
DATE: 01/31/2006

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-1

PROJECT NO: 08.75116.0057
MATRIX: WATER
DATE SAMPLED: 01/19/2006 10:40:00
DATE RECEIVED: 01/26/2006

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	91

Method 8021B ***
Analyzed by: JMG
Date: 01/28/2006

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

QUALITY CONTROL DOCUMENTATION

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444060127040300

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	92	92.0	71 - 129
Benzene	ND	100	110	110	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	17	85.0	20	100	16.2	55	19 - 189
BENZENE	ND	20	20	100	24	120	18.2	26	56 - 160
TOLUENE	ND	20	19	95.0	22	110	14.6	26	58 - 154
ETHYLBENZENE	ND	20	18	90.0	22	110	20.0	27	47 - 162
O XYLENE	ND	20	18	90.0	21	105	15.4	30	38 - 177
M & P XYLENE	ND	20	19	95.0	22	110	14.6	27	30 - 188

Analyst: JMG

Sequence Date: 01/27/06

SPL ID of sample spiked: 0601419-02A

Sample File ID: 4A26016A.TX0

Method Blank File ID:

Blank Spike File ID: 4A27030.TX0

Matrix Spike File ID: 4A27027.TX0

Matrix Spike Duplicate File ID: 4A27028.TX0

* = Values Outside QC Range. < = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID):

0601448-05A 0601448-06A 0601448-09A 0601448-11A
0601448-12A 0601448-07A 0601448-08A 0601449-02A
0601449-03A 0601449-07A 0601449-08A 0601449-09A
0601448-01A 0601448-02A 0601448-04A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444060130040200

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	93	93.0	71 - 129
Benzene	ND	100	100	100	81 - 123
Toluene	ND	100	98	98.0	81 - 123
EthylBenzene	ND	100	97	97.0	77 - 121
O Xylene	ND	100	96	96.0	74 - 130
M & P Xylene	ND	100	99	99.0	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	16	80.0	19	95.0	17.1	55	19 - 189
BENZENE	ND	20	19	95.0	24	120	23.3	26	56 - 160
TOLUENE	ND	20	18	90.0	22	110	20.0	26	58 - 154
ETHYLBENZENE	ND	20	18	90.0	21	105	15.4	27	47 - 162
O XYLENE	ND	20	17	85.0	21	105	21.1	30	38 - 177
M & P XYLENE	ND	20	18	90.0	22	110	20.0	27	30 - 188

Analyst: JMG

Sequence Date: 01/30/06

SPL ID of sample spiked: 0601389-01A

Sample File ID: 4A26021.TX0

Method Blank File ID:

Blank Spike File ID: 4A30004.TX0

Matrix Spike File ID: 4A30005.TX0

Matrix Spike Duplicate File ID: 4A30006.TX0

* = Values Outside QC Range. < = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0601449-06A 0601448-03A 0601448-10A 0601441-10A 0601441-01A 0601441-04A 0601407-11A 0601442-01A 0601409-12A 0601449-04A 0601449-05A

B-4

Page 1 of 2 **Chain-of-Custody-Record** 06-01-448 **COC ID # 00006613**

Speedway SuperAmerica Project Information

SSA STORE #:	0003642			LAB:	SPL Michigan
ADDRESS:	939 Dixie Hwy			CONSULTANT:	ATC ASSOCIATES INC
CITY:	Rossford	STATE:	OH	PROJECT MGR:	Travis S. Bukach ***INVOICE TO***
SSA PROJ. MGR:	Keith A. Hughes			ADDRESS:	10020 Brecksville Road Brecksville, Ohio 44141
PHONE #:	(937)863-7642	FAX #:	(937)863-6078	PHONE #:	440-838-7177 FAX #: 440-838-7181
	DIRECT STATE PAY SITE			SAMPLER:	Heather Bennett
CODE:	47 - Ground Water Monitoring/Closure Activities			SHIPPED VIA:	FedExp
TYPE:	L - Analytical			TRACKING #:	

TURN AROUND TIME
STANDARD

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
TRIP BLANK	10/11/2005 12:00pm	W	1	VOA	HCL	BTEX \ MTBE 8021B	
MW-9	01/19/2006 09:25am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-10	01/19/2006 09:28am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-7	01/19/2006 09:31am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-6	01/19/2006 09:36am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-2	01/19/2006 09:40am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-4	01/19/2006 09:44am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
Duplicate	01/19/2006 09:45am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-3	01/19/2006 10:30am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-5	01/19/2006 10:33am	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Heather M Bennett Date 1/21/06 Time 10:00
Relinquished by: FedEx Date 1-24-06 Time
Special Reporting Requirements: 08.75116.0057 06-08-0002

Received by:
Received by laboratory: JR
Lab Notes:

Date Time
Date 1-24-06 Time 9:30
Temp 4.6

B-4

Page 2 of 2 **Chain-of-Custody-Record** 060-01-4485 **COC ID # 00006613**

Speedway SuperAmerica Project Information

SSA STORE #:	0003642			LAB:	SPL Michigan
ADDRESS:	939 Dixie Hwy			CONSULTANT:	ATC ASSOCIATES INC
CITY:	Rossford	STATE:	OH	PROJECT MGR:	Travis S. Bukach ***INVOICE TO***
SSA PROJ. MGR:	Keith A. Hughes			ADDRESS:	10020 Brecksville Road Brecksville, Ohio 44141
PHONE #:	(937)863-7642	FAX #:	(937)863-6078	PHONE #:	440-838-7177 FAX #: 440-838-7181
	DIRECT STATE PAY SITE			SAMPLER:	Heather Bennett
CODE:	47 - Ground Water Monitoring/Closure Activities			SHIPPED VIA:	FedExp
TYPE:	L - Analytical			TRACKING #:	

TURN AROUND TIME: STANDARD

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
MW-8	01/19/2006 10:36am	W	2	VOA	HCL	BTEX \ MTBE 8021B	
MW-1	01/19/2006 10:40am	W	2	VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: Heather M Bennett Date 1-21-06 Time 1000

Relinquished by: fed Ex Date 1-26-06 Time

Special Reporting Requirements: 08.75116.0057 06-08-0002

Received by:

Received by laboratory: JR

Lab Notes:

Date Time

Date 1-26-06 Time 9:30

Temp 4.6

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Heather Bennett	Project #	08.75116.0057	Date	09/19/05

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	34	11.39	NA	22.61	3.7	11.1	11	14:00	
MW-2	2	40	23.87	NA	16.13	2.6	7.9	8	13:19	
MW-3	2	40	24.56	NA	15.44	2.5	7.6	7.5	13:22	
MW-4	2	15	6.75	NA	8.25	1.3	4.0	4.5	14:09	
MW-5	2	30	9	NA	21	3.4	10.3	10	14:05	
MW-6	2	37	20.72	NA	16.28	2.7	8.0	8.5	13:10	
MW-7	2	18	8.42	NA	9.58	1.6	4.7	4.75	13:14	
MW-8	2	15	11.47	NA	3.53	0.6	1.7	1.75	14:03	
Duplicate MW-4	2	15	6.75	NA	8.25	1.3	4.0	4.5	14:10	
Trip Blank										

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Heather Bennett	Project #	08.75116.0057	Date	01/19/06

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	34	11.53	NA	22.47	3.7	11.0	11	10:40	
MW-2	2	40	21.29	NA	18.71	3.0	9.1	9.25	9:40	
MW-3	2	40	21.15	NA	18.85	3.1	9.2	9.25	10:30	
MW-4	2	15	7.21	NA	7.79	1.3	3.8	4	9:44	
MW-5	2	30	8.44	NA	21.56	3.5	10.5	10.5	10:33	
MW-6	2	37	19.13	NA	17.87	2.9	8.7	8.75	9:36	
MW-7	2	18	7.39	NA	10.61	1.7	5.2	5.25	9:31	
MW-8	2	15	10.52	NA	4.48	0.7	2.2	2.25	10:36	
MW-9	2	14	6.93	NA	7.07	1.2	3.5	3.5	9:25	
MW-10	2	22	12.48	NA	9.52	1.6	4.7	4.75	9:28	
Duplicate MW-4	2	15	7.21	NA	7.79	1.3	3.8	4	9:45	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

APPENDIX C

BIOSCREEN FATE AND TRANSPORT MODELING DOCUMENTATION

Table 1 : BIOSCREEN Input Table for Benzene Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	57.3	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9 x 10-5	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.0617	ft/ft	Calculated from groundwater flow map
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	4.8		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	58.9	L/kg	BUSTR Default Value for benzene
FRACTION ORGANIC CARBON	0.010		Site specific data from (MW-7 15-17)
1^{ST} ORDER DECAY COEFFICIENT	0.35	per year	Calculation
SOLUTE HALF LIFE	1.97	years	BUSTR Default Value for benzene
MODELED LENGTH	300	ft	Estimated Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	18	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	2.9	mg/L	Primary source concentration
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

SSA #3642

Benzene Migration

Data Input Instructions:

1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable* — Data used directly in model

Value calculated by model (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	8.0	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	4.8	(-)
or		↑ or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
FractionOrganicCarbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.97	(year)

or Instantaneous Reaction Model

Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

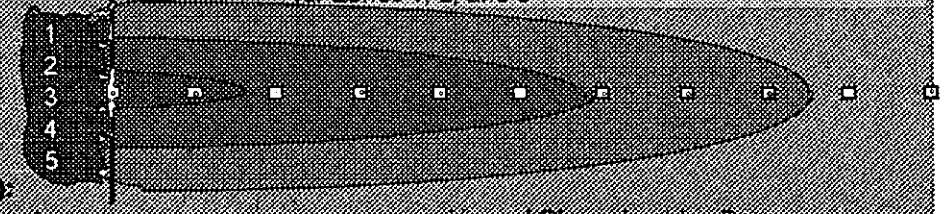
Modeled Area Length*	300	(ft)	L →
Modeled Area Width*	100	(ft)	W ↓
Simulation Time*	18	(yr)	

6. SOURCE DATA

Source Thickness in Sat.Zone* 10 (ft)

Vertical Plane Source. Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:	Width* (ft)	Conc. (mg/L)*
1		
2		
3	60	2.9
4	0	0
5	0	0



View of Plume Looking Down

Source Halflife (see Help):

Infinite	Infinite	(yr)

Inst. React. ↑ ↑ 1st Order

Soluble Mass: Infinite (Kg)

In Source NAPL Soil

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	30	60	90	120	150	180	210	240	270	300
Concentration (mg/L)		.073									

MW-10

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

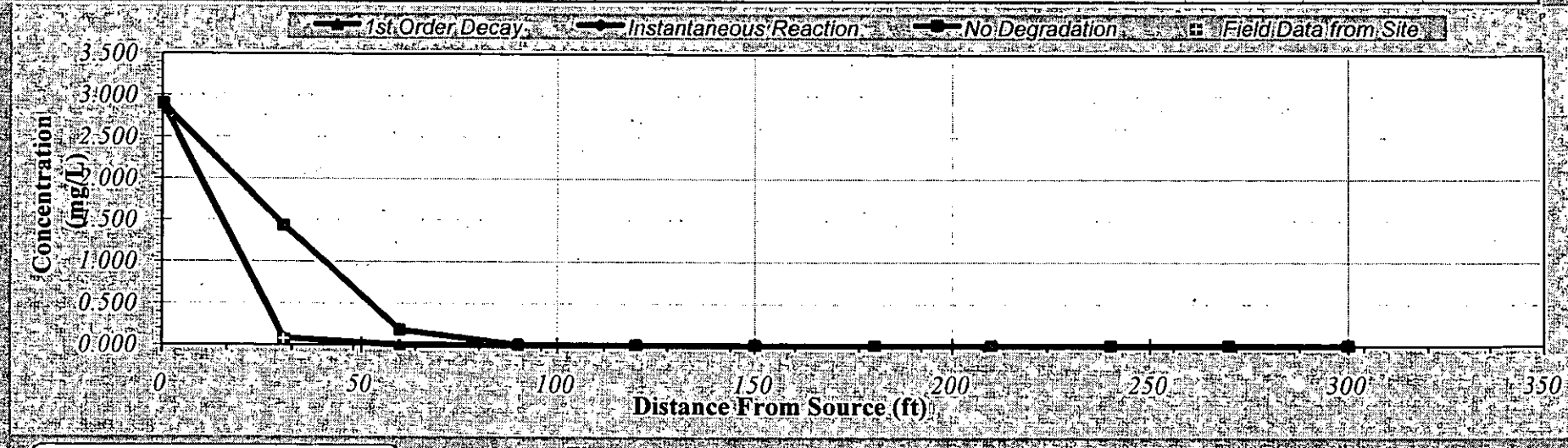
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	30	60	90	120	150	180	210	240	270	300
No Degradation	2.900	1.434	0.181	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	2.900	0.080	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst.Reaction	2.900	1.434	0.181	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site		0.073									



Calculate Animation

Time: 18.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA #3642

Benzene SSTL

Data Input Instructions:

1. Enter value directly , or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Data used directly in model.

Value calculated by model (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	8.0	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	I	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	4.8	(-)
or		↑ or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
FractionOrganicCarbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.97	(year)

or Instantaneous Reaction Model

Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	300	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	30	(yr)

L →, W ↓

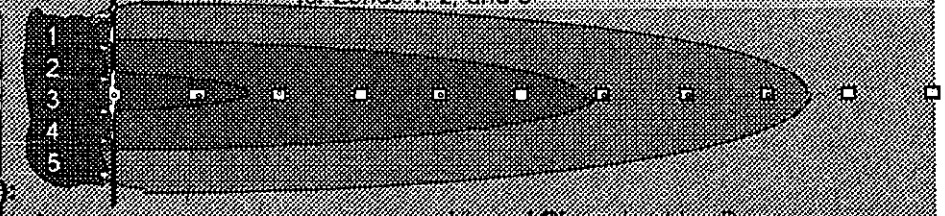
115	
↑ or	
0.02	
Variable*	
20	

6. SOURCE DATA

Source Thickness in Sat.Zone* 10 (ft)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:	Width* (ft)	Conc. (mg/L)*
1		
2		
3	60	10
4	0	0
5	0	0



View of Plume Looking Down

Source Half-Life (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	30	60	90	120	150	180	210	240	270	300
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

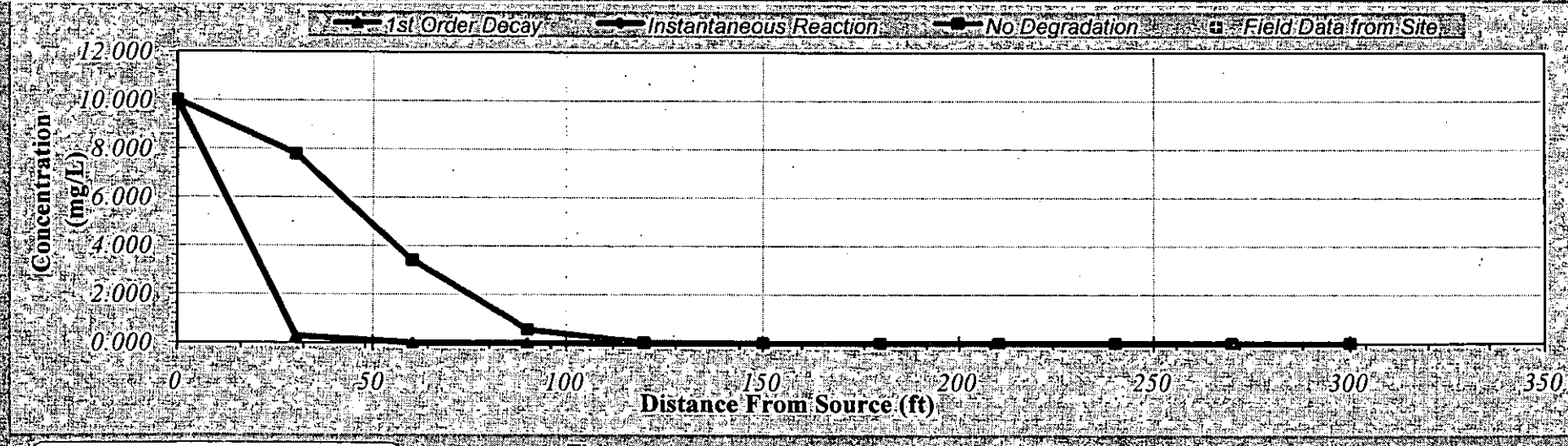
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	30	60	90	120	150	180	210	240	270	300
No Degradation	10.000	7.786	3.405	0.558	0.028	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	10.000	0.277	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	10.000	7.786	3.405	0.558	0.028	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time: 30.0 Years

Return to Input

Recalculate This Sheet

Table 2 : BIOSCREEN Input Table for Ethylbenzene Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	8.0	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9 x 10-5	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.0617	ft/ft	Calculated from groundwater flow map
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	23.6		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	363	L/kg	BUSTR Default Value for ethylbenzene
FRACTION ORGANIC CARBON	0.010		Site specific data from (MW-7,15-17)
1^{ST} ORDER DECAY COEFFICIENT	1.1	per year	Calculation
SOLUTE HALF LIFE	0.62	years	BUSTR Default Value for ethylbenzene
MODELED LENGTH	100	ft	Estimated Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	13	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	2.4	mg/L	Primary source concentration
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA #3642
Ethylbenzene Migration

Data Input Instructions:
1. Enter value directly ... or,
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable: Data used directly in model
20 Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	8.0	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	23.6	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	363	(l/kg)
Fraction Organic Carbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	1.1E+0	(per yr)
or		or	
Solute Half-Life	t-half	0.62	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	100	(ft)
Modeled Area Width	100	(ft)
Simulation Time	13.0	(yr)

115
or
0.02

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

Source Zones	Width (ft)	Conc. (mg/L)
1		
2		
3	60	2.4
4	0	0
5	0	0

Source Halflife (see Help)

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

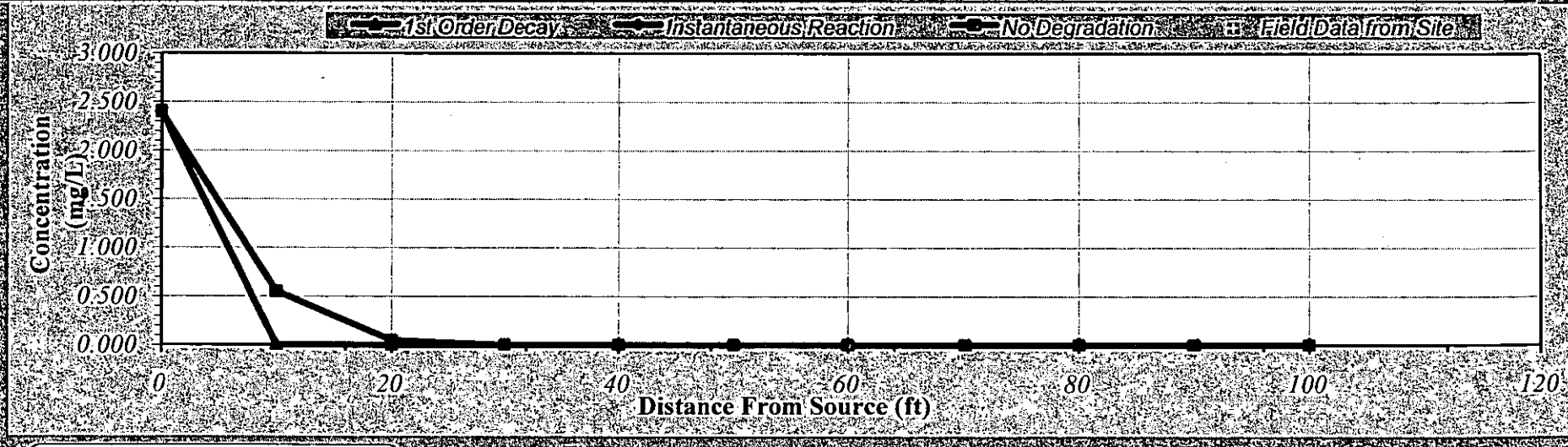
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	2.400	0.549	0.047	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	2.400	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	2.400	0.549	0.047	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time: 13.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Ethylbenzene SSTL

Data Input Instructions:
115 — 1. Enter value directly ... or
or
0.02 — 2. Calculate by filling in grey cells below. (To restore formulas, hit button below)
Variable — Data used directly in model.
20 — Value calculated by model.
(Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	8.0	(ft/yr)
or			
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or			
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	23.6	(-)
or			
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	363	(L/kg)
Fraction Organic Carbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	1.1E+0	(per yr)
or			
Solute Half-Life	t-half	0.62	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	100	(ft)
Modeled Area Width	100	(ft)
Simulation Time	30.0	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone: 10 (ft)

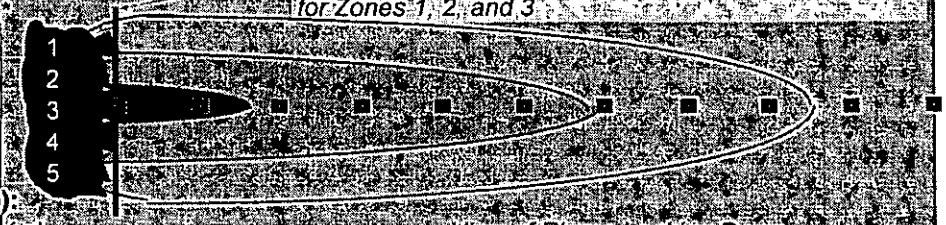
Source Zones:

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	10
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source - Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

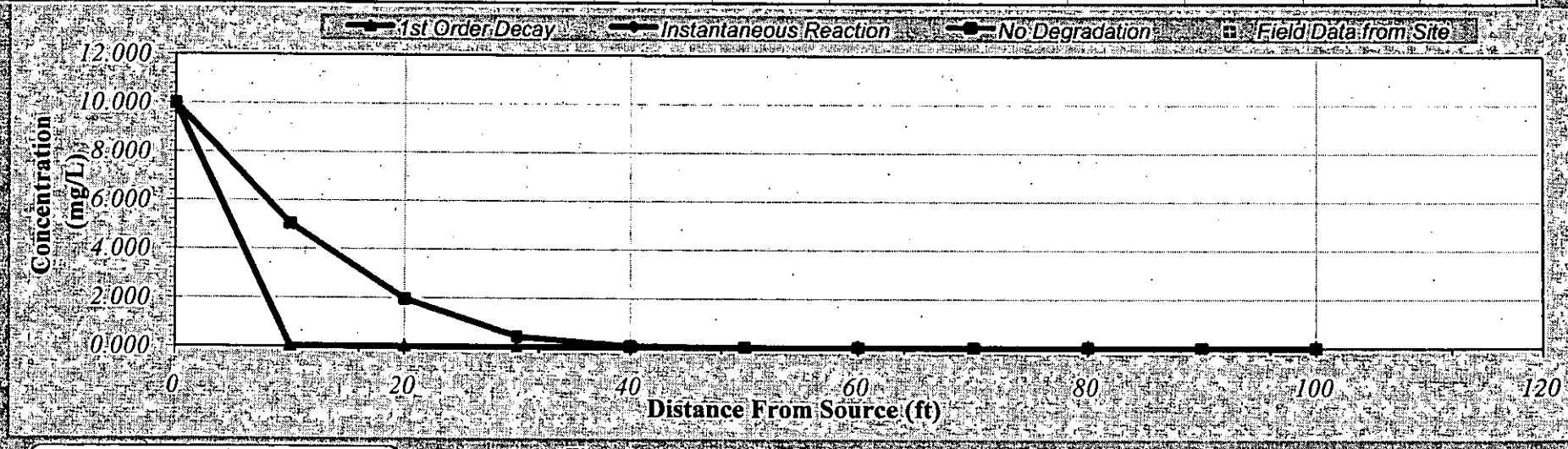
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	10.000	5.036	1.948	0.419	0.047	0.003	0.000	0.000	0.000	0.000	0.000
1st Order Decay	10.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	10.000	5.036	1.948	0.419	0.047	0.003	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time: 30.0 Years

Return to Input

Recalculate This Sheet

Table 3 : BIOSCREEN Input Table for Xylenes Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	8.0	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9 x 10-5	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.0617	ft/ft	Calculated from groundwater flow map
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	16.0		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	240	L/kg	BUSTR Default Value for xylenes
FRACTION ORGANIC CARBON	0.010		Site specific data from (MW-7,15-17)
1^{ST} ORDER DECAY COEFFICIENT	0.690	per year	Calculation
SOLUTE HALF LIFE	1.0	years	BUSTR Default Value for xylenes
MODELED LENGTH	100	ft	Estimated Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	11	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	11.0	mg/L	Primary source concentration
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA 3642
xylenes migration
Run Name

Data Input Instructions:
115 — 1: Enter value directly — or —
or — 2: Calculate by filling in grey
0.02 — cells below. (To restore
formulas, hit button below)
Variable — Data used directly in model
20 — Value calculated by model
(Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	8.0	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	290	(ft)

3. ADSORPTION

Retardation Factor	R	16.0	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	240	(L/kg)
Fraction Organic Carbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff	lambda	6.9E-1	(per yr)
or		or	
Solute Half-Life	t-half	1.00	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	100	(ft)
Modeled Area Width	100	(ft)
Simulation Time	11.0	(yr)

W

6. SOURCE DATA

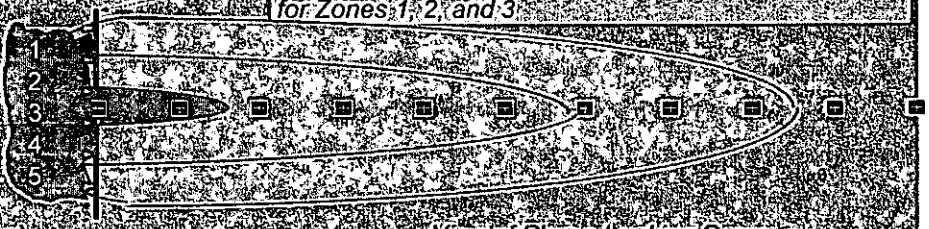
Source Thickness in Sat Zone: 10 (ft)

Source Zones

Width (ft)	Conc. (mg/L)
60	11
0	0
0	0

Source Halflife (see Help):
Infinite | Infinite (yr)
Inst React | 1st Order
Soluble Mass: Infinite (Kg)
In Source NAPL Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

7. FIELD DATA FOR COMPARISON

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter '0'

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

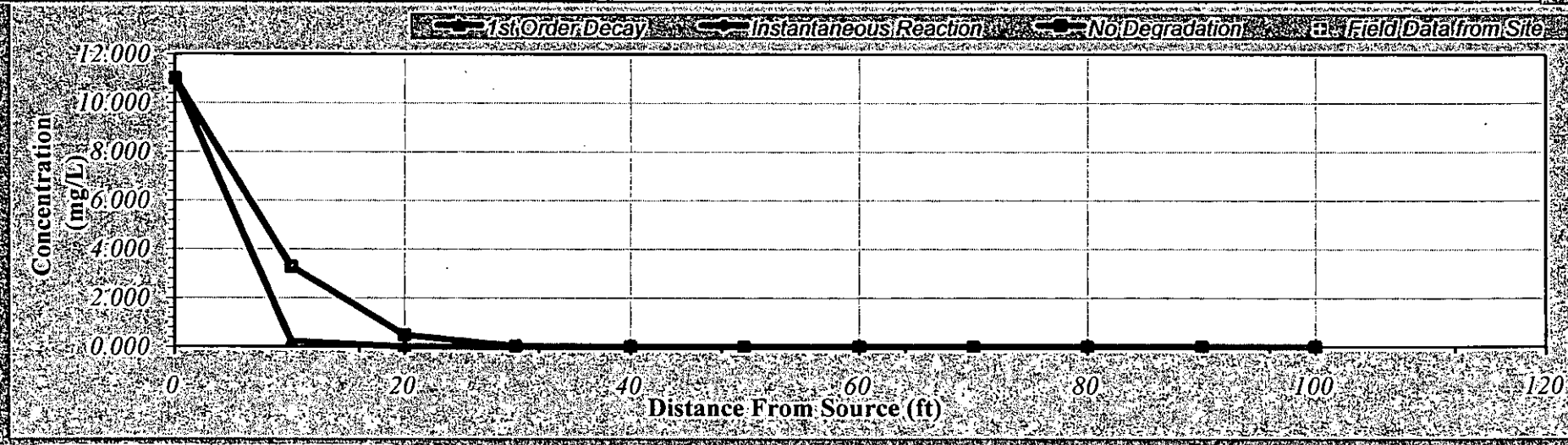
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	11.000	3.268	0.477	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	11.000	0.221	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	11.000	3.268	0.477	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time: 11.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA 3642
xylenes SSTL
Run Name

Data Input Instructions:
115 — 1. Enter value directly ... or
or — 2. Calculate by filling in grey
0.02 — cells below. (To restore
formulas, hit button below)
Variable — Data used directly in model
20 — Value calculated by model
(Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	8.0	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	16.0	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	240	(L/kg)
Fraction Organic Carbon	foc	1.0E-2	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	6.9E-1	(per yr)
or		or	
Solute Half-Life	t-half	1.00	(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	100	(ft)
Modeled Area Width	100	(ft)
Simulation Time	30.0	(yr)

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

Source Zones:

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	100
4	0	0
5	0	0

Source Halflife (see Help): Infinite | Infinite (yr)

Inst. React. — 1st Order

Soluble Mass: Infinite (Kg)

In Source NAPL Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

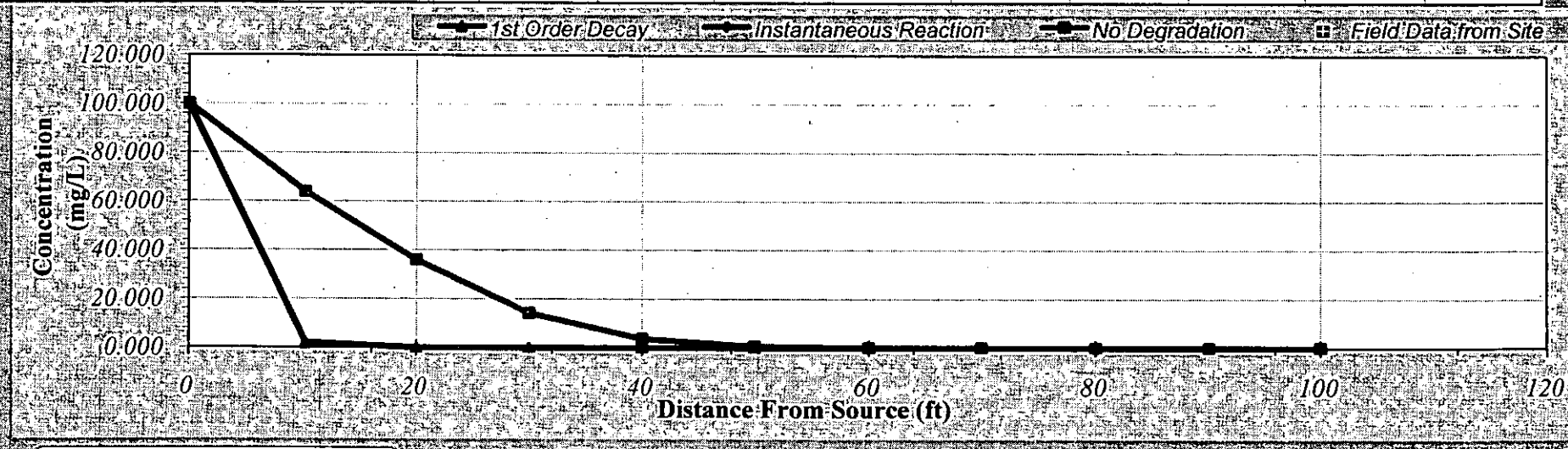
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	100.000	63.845	35.935	14.125	3.679	0.614	0.064	0.004	0.000	0.000	0.000
1st Order Decay	100.000	2.011	0.040	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	100.000	63.845	35.935	14.125	3.679	0.614	0.064	0.004	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time: 30.0 Years

Return to Input

Recalculate This Sheet

Table 4 : BIOSCREEN Input Table for MTBE Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	8.0	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9 x 10-5	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.0617	ft/ft	Calculated from groundwater flow map
POROSITY	0.313	cm^3/cm^3	Default value
ESTIMATED PLUME LENGTH	60	ft	Estimated from site data
RETARDATION FACTOR	1.0		BUSTR requirement
SOIL BULK DENSITY	-	kg/L	BUSTR requirement
PARTITION COEFFICIENT	-	L/kg	BUSTR requirement
FRACTION ORGANIC CARBON	-		BUSTR requirement
1^{ST} ORDER DECAY COEFFICIENT	0	per year	BUSTR requirement
SOLUTE HALF LIFE	-	years	BUSTR requirement
MODELED LENGTH	250	ft	Estimated Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	21.5	years	Time for contaminant to reach 250-foot POE in excess of Tier 1 action level.
SOURCE WIDTH	95	feet	Estimated from site data
SOURCE CONCENTRATIONS	1.5 0.68	mg/L mg/L	Primary source concentration Secondary source concentration
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA 3642
MTBE Migration
Run Name

Data Input Instructions:
115 — 1. Enter value directly, or
or — 2. Calculate by filling in grey
0.02 — cells below. (To restore
formulas, hit button below)

Variable* — Data used directly in model.
20 — Value calculated by model.
(Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity*	Vs	8.0	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	4.8	(ft)
Transverse Dispersivity*	alpha y	0.5	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	60	(ft)

3. ADSORPTION

Retardation Factor*	R	1.0	(-)
or		or	
Soil Bulk Density	rho		(kg/l)
Partition Coefficient	Koc		(L/kg)
FractionOrganicCarbon	foc		(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	0.0E+0	(per yr)
or		or	
Solute Half-Life	t-half		(year)

or Instantaneous Reaction Model

Delta Oxygen*	DO		(mg/L)
Delta Nitrate*	NO3		(mg/L)
Observed Ferrous Iron*	Fe2+		(mg/L)
Delta Sulfate*	SO4		(mg/L)
Observed Methane*	CH4		(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	21.5	(yr)

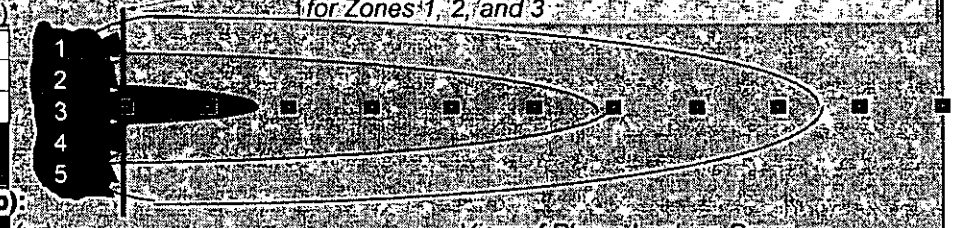
6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

Source Zones

	Width* (ft)	Conc. (mg/L)*
1		
2	25	0.68
3	45	1.5
4	25	0.68
5	0	0

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass in Source NAPL Soil*	Infinite	(Kg)

View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
25	
50	
75	
100	
125	
150	
175	
200	
225	
250	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

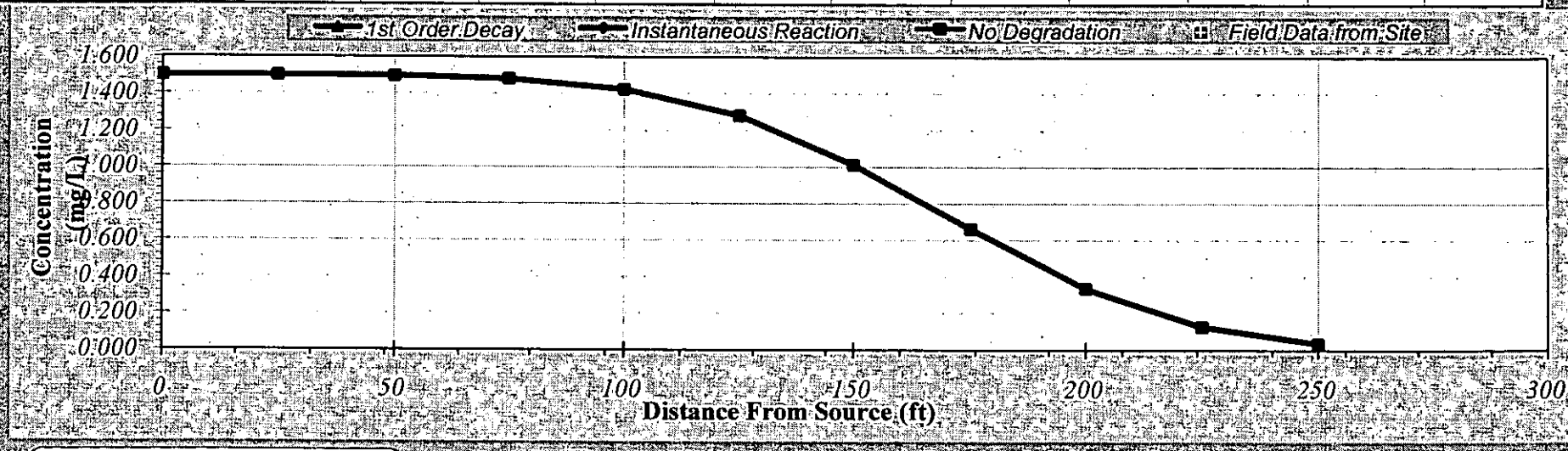
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	25	50	75	100	125	150	175	200	225	250
No Degradation	1.500	1.500	1.497	1.480	1.424	1.281	1.013	0.660	0.335	0.127	0.035
1st Order Decay	1.500	1.500	1.497	1.480	1.424	1.281	1.013	0.660	0.335	0.127	0.035
Inst. Reaction	1.500	1.500	1.497	1.480	1.424	1.281	1.013	0.660	0.335	0.127	0.035
Field Data from Site											



Calculate Animation

Time: 21.5 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA 3642
MTBE 2002
Run Name

Data Input Instructions:
115 or 0.02 — 1. Enter value directly ... or ... 2. Calculate by filling in grey cells below. (To restore formulas, hit button below)
Variable: Data used directly in model.
20 Value calculated by model. (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	8.0	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.0617	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	4.8	(ft)
Transverse Dispersivity	alpha y	0.5	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	60	(ft)

3. ADSORPTION

Retardation Factor	R	1.0	(-)
or		or	
Soil Bulk Density	rho		(kg/l)
Partition Coefficient	Koc		(L/kg)
Fraction Organic Carbon	foc		(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	0.0E+0	(per yr)
or		or	
Solute Half-Life	t-half		(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	300	(ft)
Modeled Area Width	100	(ft)
Simulation Time	4.0	(yr)

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

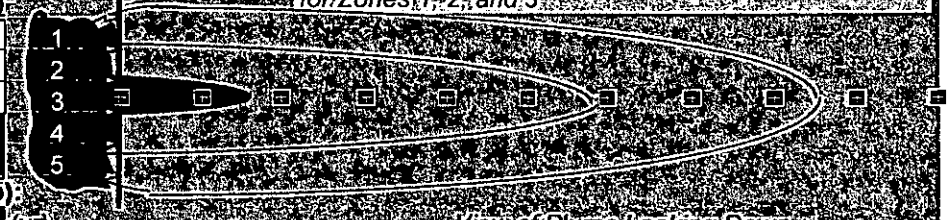
Source Zones:

	Width (ft)	Conc (mg/L)
1		
2	25	1.7
3	45	5.3
4	25	1.7
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source - Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
30	<0.005
60	
90	
120	
150	
180	
210	
240	
270	
300	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

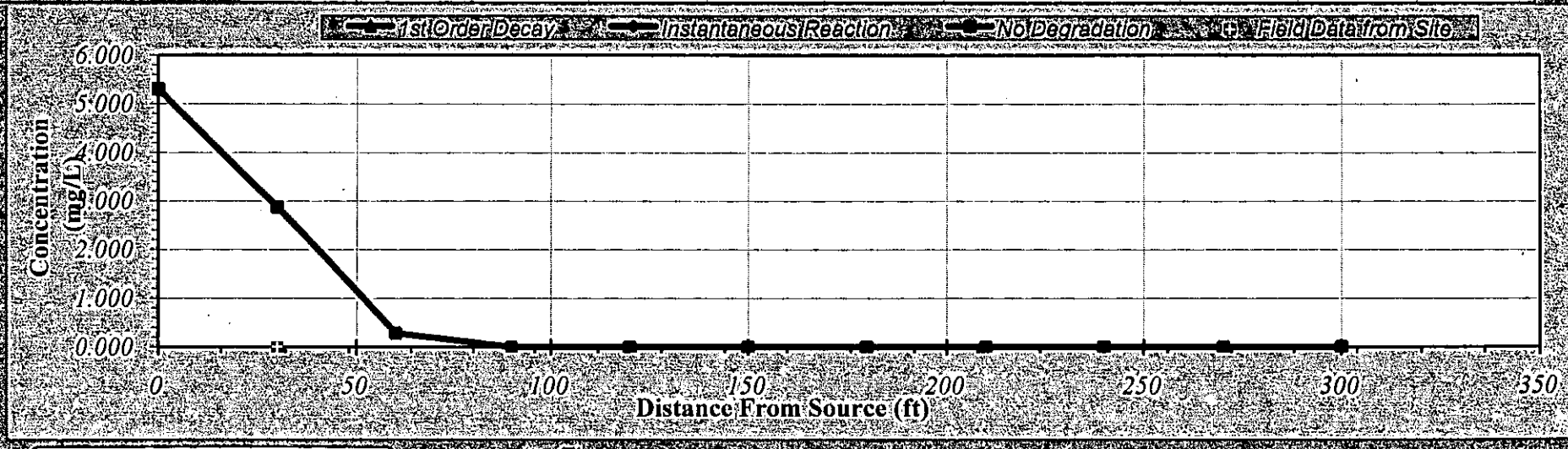
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	30	60	90	120	150	180	210	240	270	300
No Degradation	5.300	2.870	0.280	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.300	2.870	0.280	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.300	2.870	0.280	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site		<0.005									



Calculate Animation

Time: 4.0 Years

Return to Input

Recalculate This Sheet

APPENDIX D

BUSTR SSTL SPREADSHEETS

SSA #3642
Rossford, Ohio

Table 1

Groundwater to Indoor Air
Summary of Input Parameters
(Commercial Workers / Silty/Clayey Sands / Benzene)

Description	Source / Default	Symbol	Value	Units
Target Risk Levels				
Target Risk	Default	TR	1.0E-05	unitless
Target hazard quotient	Default	THQ	1.0	unitless
Exposure Parameters for Commercial Workers				
Averaging Time for Carcinogens	Default	AT_c	70	yr
Averaging Time for Non-Carcinogens	Default	AT_n	25	yr
Body Weight	Default	BW	70	kg
Exposure duration	Default	ED	25	yr
Exposure frequency	Default	EF	250	d/yr
Exposure time for indoor air	Default	ET	8	hr/d
Daily indoor inhalation rate	Default	IR_{air}	0.833	m^3/hr
Vadose Zone Hydraulic Parameters				
Depth to groundwater	14.00 feet	dtw	426.72	cm
Thickness of capillary fringe	Default	h_{cap}	5.00	cm
Thickness of vadose zone	dtw-h_{cap}	vz	421.72	cm
Depth to bottom of basement	Default	db	243.84	cm
Depth to groundwater from bottom of basement	dtw-db	L_{GW}	182.88	cm
Thickness of vadose zone below basement	L_{GW}-h_{cap}	h_v	177.88	cm
Vadose Zone Soil Parameters for Silty/Clayey Sands				
Total soil porosity vadose zone	Site Specific / 0.43	Θ_T	0.3179	cm^3/cm^3
Volumetric water content in vadose zone	Site Specific / 0.15	Θ_{ws}	0.161	cm^3/cm^3
Volumetric air content in vadose zone soils	Θ_T - Θ_{ws}	Θ_{as}	0.1569	cm^3/cm^3
Volumetric air content in capillary fringe soils	Default	Θ_{acap}	0.043	cm^3/cm^3
Volumetric water content in capillary fringe soils	Default	Θ_{wcap}	0.387	cm^3/cm^3
Indoor Volitilization / Building Parameters for Commercial Structure				
Enclosed-space air exchange rate	Default	ER	2.30E-04	1/s
Enclosed-space volume/infiltration area ratio	Default	L_B	487.68	cm
Enclosed-space foundation or wall thickness	Default	Lcrack	15	cm
Areal fraction of cracks in foundations/walls	Default	η	0.001	cm^2/cm^2
Vol. air content in foundation/wall cracks	Default	Θ_{acrack}	0.25	cm^3/cm^3
Vol. water content in foundation/wall cracks	Default	Θ_{wcrack}	0.19	cm^3/cm^3
Chemical and Physical Properties for Benzene				
Diffusivity in air	Default	D^{air}	8.80E-02	cm^2/s
Diffusivity in water	Default	D^{wat}	9.80E-06	cm^2/s
Henry's Law Constant	Default	H	2.28E-01	unitless
Slope Factor Inhalation	Default	SF_i	2.90E-02	1/(mg/kg-day)
Reference Dose Inhalation	Default	RfD_i	ND	mg/kg-day

Tier 2 SSTL (mg/l) 1.43E+01

SSA #3642
Rossford, Ohio

Table 1

Soil Leaching to Groundwater
Tier 2 SSTL Calculations
(Benzene - Silty Clayey Sands)

Description	Source	Symbol	Value	Units
Chemical Specific Parameters For Benzene				
Action Level (water)	Action Level	AL_w	1.00E+1	mg/l
Organic Carbon / Water Coefficient	Default	K_{oc}	5.89E+01	L/kg
Henry's Law Constant	Default	H'	2.28E-01	-
Degradation Rate	Default	k	9.60E-04	day^{-1}
Pathway Specific Parameters Based on Soil Type Silty Clayey Sands				
Depth from source to water table	2.0 Feet	L	60.96	cm
Fraction Organic Carbon	Site Specific / 0.0025	F_{oc}	0.0104	g oc/g soil
Dry Bulk Soil Density	Default	ρ_s	1.6	g/cm^3
Saturated Hydraulic Conductivity	Default	K_s	4.17E-05	cm/sec
Wetting Front Suction Head	Default	Ψ	-21.85	cm
Porosity of Soil in Vadose	Site Specific / 0.43	Θ_T	0.3179	cm^3/cm^3
Volumetric Water Content	Site Specific / 0.15	Θ_{ws}	0.161	cm^3/cm^3
Groundwater Darcy Velocity	Default	U_{gw}	2500	cm/yr
Groundwater Mixing Zone Thickness	Default	δ_{gw}	200	cm
Infiltration Rate	Default	I	20.32	cm/yr
Ponding Depth	Default	h	0	cm
Width of Source Parallel to GW Flow	Default	W	1500	cm
Calculated Parameters				
Unsaturated Hydraulic Conductivity	0.5 x Ks	K_u	2.09E-05	cm/sec
Air Filled Porosity	$\Theta_T - \Theta_{ws}$	Θ_{as}	0.1569	cm^3/cm^3
Partitioning Coefficient	Koc x Foc	K_d	6.13E-01	ml/g
Calculated Values[1]				
Soil to GW SSTL w/o Degradation	Equation 1	$SSTL_{no\ deg}$	1.28E+02	mg/kg
Soil to GW Leaching Factor	Equation 2	LF_{sw}	7.81E-02	mg/l / mg/kg
Time for water to move from source to GW	Equation 3.1	t	2.02E+00	day
Vertical Seepage Velocity of Water	Equation 3.2	V_w	3.01E+01	cm/day
Velocity of COCs	Equation 3.3	V_c	7.37E+00	cm/day
Travel Time for COCs to reach GW	Equation 3.4	t_c	8.27E+00	day
Ratio of Final COC Conc. to Initial COC Conc.	Equation 3.5	C_f/C_w	9.92E-01	-
SSTL for Soil to GW w/ Degradation	Equation 4	SSTL	**1.29E+02**	mg/kg

[1]Equations presented in Table 2.

SSA #3642
Rossford, Ohio

Table 1

Subsurface Soil to Indoor Air
Summary of Input Parameters
(Commercial Workers / Silty/Clayey Sands / Benzene)

Description	Source / Default	Symbol	Value	Units
Target Risk Levels				
Target Risk	Default	TR	1.0E-05	unitless
Target hazard quotient	Default	THQ	1.0	unitless
Exposure Parameters for Commercial Workers				
Averaging Time for Carcinogens	Default	AT_c	70	yr
Averaging Time for Non-Carcinogens	Default	AT_n	25	yr
Body Weight	Default	BW	70	kg
Exposure duration	Default	ED	25	yr
Exposure frequency	Default	EF	250	d/yr
Exposure time for indoor air	Default	ET	8	hr/d
Daily indoor inhalation rate	Default	IR_{air}	0.833	m^3/hr
Vadose Zone Hydraulic Parameters				
Depth to bottom of basement	Default	L_1	243.84	cm
Depth to top of subsurface soil sources	10.0 Feet	L_2	304.8	cm
Soil thickness between bottom of basement and source	L_2-L_1	L_s	60.96	cm
Vadose Zone Soil Parameters for Silty/Clayey Sands				
Fraction organic carbon	Site Specific / 0.0025	F_{oc}	0.0104	g oc/g soil
Total soil porosity vadose zone	Site Specific / 0.43	Θ_T	0.3179	cm^3/cm^3
Volumetric water content in vadose zone	Site Specific / 0.15	Θ_{ws}	0.161	cm^3/cm^3
Volumetric air content in vadose zone soils	Θ_T - Θ_{ws}	Θ_{as}	0.1569	cm^3/cm^3
Soil bulk density	Default	ρ_s	1.6	g/cm^3
Indoor Volitilization / Building Parameters for Commercial Structure				
Enclosed-space air exchange rate	Default	ER	2.30E-04	1/s
Enclosed-space volume/infiltration area ratio	Default	L_B	487.68	cm
Enclosed-space foundation or wall thickness	Default	Lcrack	15	cm
Areal fraction of cracks in foundations/walls	Default	η	0.001	cm^2/cm^2
Vol. air content in foundation/wall cracks	Default	Θ_{acrack}	0.25	cm^3/cm^3
Vol. water content in foundation/wall cracks	Default	Θ_{wcrack}	0.19	cm^3/cm^3
Chemical and Physical Properties for Benzene				
Diffusivity in air	Default	D^{air}	8.80E-02	cm^2/s
Diffusivity in water	Default	D^{wat}	9.80E-06	cm^2/s
Henry's Law Constant	Default	H	2.28E-01	unitless
Soil / Water Partition Coefficient	Default	K_{oc}	5.89E+01	cm^3/g
Partioning Coefficient	Koc x Foc	Ks	6.13E-01	cm^3/g
Slope Factor Inhalation	Default	SF_i	2.90E-02	1/(mg/kg-day)
Reference Dose Inhalation	Default	RfD_i	ND	mg/kg-day

Tier 2 SSTL (mg/kg) 9.51E+00

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TIER 2 ADDENDUM #2/TIER 3 PLAN

Speedway SuperAmerica LLC Store #3642
939 East River Road (Dixie Highway)
Rossford, Ohio
Wood County

BUSTR Release #87000087-N00002

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12 December 2006

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1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to prepare the *Tier 2 Addendum #2/Tier 3 Plan* for SSA #3642 located at 939 East River Road (Dixie Highway) in Rossford, Wood County, Ohio (**Figure 1**). This report was written to provide information requested by the Bureau of Underground Storage Tank Regulations (BUSTR) in the *Additional Information Response* letter dated 13 September 2006 (**Appendix A**). The Tier 2 Addendum #2 was prepared in accordance with Ohio Administrative Code (OAC) 1301:7-9-13 (M), OAC 1301:7-9-13 (N), and BUSTR Technical Guidance Manual, July 2001 (2001).

For reference, **Figures 1** and **2** present the site location map and site map and **Tables 1, 2,** and **3** present the soil and groundwater analytical results associated with the site.

2.0 ADDITIONAL INFORMATION RESPONSES

The additional information requested by BUSTR in the 13 September 2006 letter is reiterated below and is followed by ATC's responses:

BUSTR REQUEST #1: *The Tier 2 Addendum Report uses BIOSCREEN to evaluate the potential migration of benzene.*

- *Please explain why 57.3 feet/year was used as the seepage velocity.*
- *Provide additional information regarding the hydraulic gradient calculation. Based on several calculations using historical data, it appears that a better estimate of the hydraulic gradient in the vicinity of MW-4, MW-5, MW-7, MW-8, MW-9 and MW-10 would be approximately 0.03 feet/foot.*
- *The fraction organic carbon (FOC) value used (0.010 g/g) does not agree with any of the data presented in Table 2. Please explain. In addition, all of the four soil samples tested for total organic carbon contained nearly identical ash contents and moisture contents, indicating that none of these four samples were collected below the groundwater table. Thus, the lab results should not be used in the BIOSCREEN model.*

RESPONSE #1:

The seepage velocity value for benzene is eight feet per year using a horizontal hydraulic conductivity of 3.90×10^{-5} centimeters per second (cm/s), a horizontal hydraulic gradient of 0.060 feet per foot, and a porosity of 0.313; however, an incorrect value was entered onto Table 1, BIOSCREEN Input Table for Benzene Migration, in Appendix G of the *Tier 2 Addendum Report*. The input tables for BIOSCREEN fate and transport modeling have been revised as necessary and are presented in **Appendix B**.

As suggested by BUSTR, the hydraulic gradient of 0.030 feet per foot has replaced 0.060 feet per foot in the fate and transport modeling spreadsheets for benzene, ethylbenzene, total xylenes, and methyl tertiary butyl ether (MTBE).

The data presented in **Table 2** presents organic matter values obtained by using American Society for Testing and Materials (ASTM) Method D2974. Total organic carbon can be calculated from organic matter by multiplying by 0.58 (correction factor) and dividing by 100 to get grams of organic carbon per 100 grams of

soil. The default fraction organic carbon value of 0.001 grams per gram has replaced 0.010 in the fate and transport spreadsheets for benzene, ethylbenzene, total xylenes, and MTBE.

Fate and transport modeling will be revised using the above mentioned information and will be discussed in detail in Section 3.0.

BUSTR REQUEST #2: *The Tier Report also uses the BIOSCREEN model to evaluate the potential migration of MTBE.*

- *It appears that MW-5 should be considered a down-gradient well vis-à-vis MW-4 (rather than aside-gradient well within the source area). This conclusion is based on an observation that the MTBE concentrations at MW-5 show a slightly increasing trend since April of 2002, and that the groundwater flow direction has had a vector in that direction..*
- *Because the model predicts that MTBE will reach the POE, a Tier 3, RAP, or IRA are necessary to address MTBE in groundwater.*

RESPONSE #2:

As suggested by BUSTR, monitoring well MW-5 will be used as a point-of-demonstration (POD) well within the BIOSCREEN fate and transport modeling calculations. Fate and transport modeling will be revised and will be discussed in detail in Section 3.0.

Chemicals of concern concentrations in groundwater exceed the Tier 1 action level in two wells (MW-4 and MW-5) at the site. BIOSCREEN modeling shows that MTBE in groundwater within the source area will migrate to the nearest receptor at a concentration exceeding the Tier 1 action level under a no decay solute transport scenario; therefore, a Tier 3 Plan will be prepared that includes evaluating the fate and transport of MTBE in groundwater using a first-order decay solute transport scenario. Section 5.0 presents the Tier 3 Plan.

BUSTR REQUEST #3: *The Tier 2 Report requests BUSTR approval to perform additional groundwater monitoring. BUSTR agrees that additional groundwater monitoring will be needed. However, please revise the BIOSCREEN model based on the comments listed above and then submit a revised Monitoring Plan. Also, please note that future groundwater monitoring activities should include all 10 of the monitoring wells, due to the relatively complex groundwater elevations and flow directions.*

RESPONSE #3:

Additional monitoring is deemed necessary to conduct a Tier 3 Evaluation of the site and to obtain a site-specific solute half-life for MTBE for inclusion into a first-order decay solute transport model using BIOSCREEN software. Section 5.0 presents the Tier 3 Plan, which includes four additional quarters of groundwater sampling.

3.0 REVISED TIER 2 FATE AND TRANSPORT MODELING

BIOSCREEN Groundwater Contamination Natural Attenuation Model [Version 1.3 (1996) and Version 1.4 (1997)], developed by Groundwater Services, Inc. (GSI), incorporates the models described in the ASTM E1739-95 standard into a spreadsheet-based risk assessment program that simulates the fate and transport of chemicals of concern with no decay, first order decay, and instantaneous reaction based on the Domenico analytical solute transport. According to the BUSTR fact sheet dated April 2003, BIOSCREEN may be used

to show Tier 2 fate and transport modeling of most chemicals of concern with first order decay and for MTBE with no decay from the source area on-site to the nearest potential receptor using the maximum groundwater concentrations found in the monitoring wells at the site.

In this case, the *Tier 2 Evaluation Report* indicates that the nearest receptor will be Grassy Creek, which is located approximately 250 feet to the north. Site-specific parameters were used in place of some conservative default values. The horizontal hydraulic gradient for the site will be 0.030 feet per foot per BUSTR's request. The highest saturated, horizontal hydraulic conductivity calculated from slug test data was 3.90×10^{-5} cm/s for MW-4. The default total organic carbon value for the saturated zone of 0.001 will be used per BUSTR's request. The geotechnical parameters, soil bulk density and porosity, were obtained from Shelby tube sample MW-6 (19-21). This information may be found in the *Tier 2 Addendum Report*.

3.1 Fate and Transport/On-site Groundwater Ingestion SSTL of Benzene

The maximum benzene concentration in groundwater at the site was found in MW-4 at a concentration of 5.3 milligrams per Liter (mg/L) from the 16 June 2004 sampling event. Three additional groundwater monitoring events were subsequently conducted in 2 June 2005, 19 September 2005, and 19 January 2006. MW-5 and MW-8 serve as the point-of-demonstration (POD) wells. Based on the groundwater concentrations on 16 June 2004, the configuration of the source included a source length of 90 feet, a source thickness of 10 feet, and a total source width of 60 feet.

Static equilibrium was reached within 27 years at the 250-foot point-of-exposure (POE) subsequent to the time the maximum dissolved concentration was identified (16 June 2004). To show the fate and transport of benzene over time using the POD wells and POE, a length of 250 feet was used in the model. None of the groundwater concentrations from the three sampling events for MW-5 and MW-8 exceed the projected concentrations achieved at steady state conditions. Furthermore, the 30-foot POD well is projected to have 0.010 mg/L of benzene within 1.5 years of 16 June 2004 and the POD well has been consistently below detection levels of 0.005 and 0.010 mg/L for the past three sampling events, spanning over 1.5 years. **Appendix B** presents the BIOSCREEN fate and transport projections of dissolved benzene during these monitoring periods. The site-specific concentrations from MW-5 and MW-8 were entered into their approximate locations downgradient of the source. The BIOSCREEN model appeared to be verified with the site-specific data since the actual concentrations do not exceed the projected concentrations along the plume's centerline.

The maximum concentration of dissolved benzene in the source area is projected to degrade to below the Tier 1 action level prior to reaching the 250-foot POE; therefore, an on-site dissolved benzene site-specific target level (SSTL) was calculated to show the allowable maximum concentration within the source area that will not migrate to the 250-foot POE at a concentration greater than the Tier 1 action level for the Groundwater Ingestion Pathway. Using the estimated source area scenario stated above and by back-calculating from the 250-foot POE to the source area, the model shows that a dissolved benzene concentration of 10 mg/L in groundwater within the source area will have degraded to a concentration less than the Groundwater Ingestion Action Level prior to reaching the 250-foot POE. The input parameters and rationale used in the BIOSCREEN model are summarized in Table 1 of **Appendix B**. The BIOSCREEN model and supporting documentation are provided in **Appendix B**. The on-site Groundwater Ingestion SSTL for benzene is presented on **Table 4. None of the groundwater concentrations from any of the sampling events exceed the Tier 2 Groundwater Ingestion SSTL for benzene.**

3.2 Fate and Transport/On-site Groundwater Ingestion SSTL of Ethylbenzene

The maximum ethylbenzene concentration in groundwater at the site was found in MW-4 at a concentration of 4.1 mg/L during the 2 June 2005 sampling event. Two additional groundwater monitoring events were subsequently conducted in 19 September 2005 and 19 January 2006. MW-5 and MW-8 serve as the POD wells. Based on the groundwater concentrations on 16 June 2004, the configuration of the source included a source length of 90 feet, a source thickness of 10 feet, and a total source width of 60 feet.

Static equilibrium was reached within six years at the 250-foot POE subsequent to the time the maximum dissolved concentration was identified (2 June 2005). To show the fate and transport of ethylbenzene over time using the POD wells and POE, a length of 250 feet was used in the model. None of the groundwater concentrations from the two sampling events for MW-5 and MW-8 exceed the projected concentrations achieved at steady state conditions (both wells did not exceed detections limits of five and 10 mg/L). **Appendix B** presents the BIOSCREEN fate and transport projections of dissolved ethylbenzene during these monitoring periods. The site-specific concentrations from MW-5 and MW-8 were entered into their approximate locations downgradient of the source. The BIOSCREEN model appeared to be verified with the site-specific data since the actual concentrations do not exceed the projected concentrations along the plume's centerline.

The maximum concentration of dissolved ethylbenzene in the source area is projected to degrade to below the Tier 1 action level prior to reaching the 250-foot POE; therefore, an on-site dissolved ethylbenzene SSTL was calculated to show the allowable maximum concentration within the source area that will not migrate to the 250-foot POE at a concentration greater than the Tier 1 action level for the Groundwater Ingestion Pathway. Using the estimated source area scenario stated above and by back-calculating from the 250-foot POE to the source area, the model shows that a dissolved ethylbenzene concentration of 10 mg/L in groundwater within the source area will have degraded to a concentration less than the Groundwater Ingestion Action Level prior to reaching the 250-foot POE. The input parameters and rationale used in the BIOSCREEN model are summarized in Table 2 of **Appendix B**. The BIOSCREEN model and supporting documentation are provided in **Appendix B**. The on-site Groundwater Ingestion SSTL for ethylbenzene is presented on **Table 4. None of the groundwater concentrations from any of the sampling events exceed the Tier 2 Groundwater Ingestion SSTL for ethylbenzene.**

3.3 Fate and Transport/On-site Groundwater Ingestion SSTL of Total Xylenes

The maximum total xylenes concentration in groundwater at the site was found in MW-4 at a concentration of 16 mg/L during the 2 June 2005 sampling event. Two additional groundwater monitoring events were subsequently conducted in 19 September 2005 and 19 January 2006. MW-5 and MW-8 serve as the POD wells. Based on the groundwater concentrations on 2 June 2005, the configuration of the source included a source length of 90 feet, a source thickness of 10 feet, and a total source width of 60 feet.

Static equilibrium was reached within 12 years at the 250-foot POE subsequent to the time the maximum dissolved concentration was identified (2 June 2005). To show the fate and transport of total xylenes over time using the POD wells and POE, a length of 250 feet was used in the model. None of the groundwater concentrations from the two sampling events for MW-5 and MW-8 exceed the projected concentrations achieved at steady state conditions. **Appendix B** presents the BIOSCREEN fate and transport projections of dissolved total xylenes during these monitoring periods. The site-specific concentrations from MW-5 and MW-8 were entered into their approximate locations downgradient of the source. The BIOSCREEN model appeared to be verified with the site-specific data since the actual concentrations do not exceed the projected concentrations along the plume's centerline.

The maximum concentration of dissolved total xylenes in the source area is projected to degrade to below the Tier 1 action level prior to reaching the 250-foot POE; therefore, an on-site dissolved total xylenes SSTL was calculated to show the allowable maximum concentration within the source area that will not migrate to the 250-foot POE at a concentration greater than the Tier 1 action level for the Groundwater Ingestion Pathway. Using the estimated source area scenario stated above and by back-calculating from the 250-foot POE to the source area, the model shows that a dissolved total xylenes concentration of 100 mg/L in groundwater within the source area will have degraded to a concentration less than the Groundwater Ingestion Action Level prior to reaching the 250-foot POE. The input parameters and rationale used in the BIOSCREEN model are summarized in Table 3 of **Appendix B**. The BIOSCREEN model and supporting documentation are provided in **Appendix B**. The on-site Groundwater Ingestion SSTL for total xylenes is presented on **Table 4. None of the groundwater concentrations from any of the sampling events exceed the Tier 2 Groundwater Ingestion SSTL for total xylenes.**

3.4 Fate and Transport/On-site Groundwater Ingestion SSTL of MTBE

The maximum MTBE concentration in groundwater at the site was found in MW-4 at a concentration of 3.0 mg/L from the 16 June 2004 sampling event. Three additional groundwater monitoring events were subsequently conducted in 2 June 2005, 19 September 2005, and 19 January 2006. MW-5 and MW-8 serve as the POD wells. Based on the groundwater concentrations on 16 June 2004, the configuration of the source included a source length of 90 feet, a source thickness of 10 feet, and a total source width of 60 feet.

Static equilibrium was reached within 147 years at the 250-foot POE subsequent to the time the maximum dissolved concentration was identified (16 June 2004). To show the fate and transport of MTBE over time using the POD wells and POE, a length of 250 feet was used in the model. None of the groundwater concentrations from the three sampling events for MW-5 and MW-8 exceed the projected concentrations achieved at steady state conditions. **Appendix B** presents the BIOSCREEN fate and transport projections of dissolved MTBE during these monitoring periods. The site-specific concentrations from MW-5 and MW-8 were entered into their approximate locations downgradient of the source. Although the BIOSCREEN model appeared to be verified with the site-specific data since the actual concentrations do not exceed the projected concentrations along the plume's centerline, without accounting for adsorption and biodegradation, the BIOSCREEN model overestimates the MTBE concentration downgradient of the source area.

The maximum concentration of dissolved MTBE in the source area is projected to migrate at a concentration exceeding the Tier 1 action level upon reaching the 250-foot POE; therefore, an on-site dissolved MTBE SSTL needs to be calculated to show the allowable maximum concentration within the source area that will not migrate to the 250-foot POE at a concentration greater than the Tier 1 action level for the Groundwater Ingestion Pathway. However, since the Tier 2 fate and transport modeling with a no decay scenario overestimates the fate and transport of MTBE, degradation rates should be obtained and site-specific solute half-life values should be calculated according to a Tier 3 Plan to be used in a first-order decay solute transport model. The input parameters and rationale used in the BIOSCREEN model are summarized in Table 4 of **Appendix B**. The BIOSCREEN model and supporting documentation are provided in **Appendix B**. **Groundwater concentrations from the last nine sampling events in MW-4 and MW-5 exceed the Tier 1 Groundwater Ingestion action level for MTBE.**

4.0 CONCLUSIONS

The results of the Tier 2 Addendum are summarized as follows:

- The site has been delineated to Tier 1 action levels in both soil and groundwater.
- Based on the re-evaluation of Tier 2 fate and transport modeling and the re-development of SSTLs for benzene, ethylbenzene, and total xylenes using a horizontal hydraulic gradient of 0.030 feet per foot and a default total organic carbon value of 0.001, the POD well concentrations indicate verification of the fate and transport of each of these constituents and it was demonstrated that the original Tier 2 SSTLs would still apply to the site.
- The Tier 2 Groundwater Ingestion SSTLs for benzene, ethylbenzene, and total xylenes were not exceeded in any of the samples.
- The fate and transport of methyl tertiary butyl ether (MTBE) using a no decay solute transport model is overly conservative and does not remotely reflect the fate and transport of MTBE from the source on-site to the nearest receptor. Therefore, a Tier 2 SSTL was not calculated.

It will be necessary further evaluate MTBE associated with the Groundwater Ingestion Pathway in terms of a Tier 3 Evaluation. Section 5.0 provides a detailed discussion of the proposed Tier 3 Plan.

Additionally, an environmental covenant will be executed for the site to restrict the site to commercial use only, to restrict future buildings to be built on slab only, and to prohibit potable wells for drinking water use in order to eliminate the Groundwater Ingestion Pathway and the Soil to Drinking Water Leaching Pathway. A copy of the draft environmental covenant is included in **Appendix C**.

5.0 TIER 3 PLAN WITH MONITORING PLAN

Tier 3 Methodology

MTBE concentrations in groundwater exceed the Tier 1 action level in two wells (MW-4 and MW-5) at the site. A no decay solute transport scenario overestimates the dissolved MTBE concentrations that will migrate downgradient and to the nearest receptor. This Tier 3 Plan proposes to evaluate the fate and transport of MTBE using a first-order decay solute transport scenario based on the Domenico analytical solute transport. First-order decay solute transport takes into account dispersion, adsorption, and decay processes that affect the fate and transport of chemicals of concern in a specific hydrogeological environment. Adsorption parameters used for Tier 3 fate and transport modeling will include a site-specific soil bulk density of 1.95 kilograms per Liter, a default partition coefficient of six Liters per Kilogram for MTBE, and the default fraction organic carbon of 0.001 (per BUSTR's request). The first-order decay coefficient is dependent upon a site-specific solute half-life. The site-specific solute half-life will be obtained per the following methodology as part of a Tier 3 Evaluation to determine the fate and transport of MTBE in groundwater using a first-order decay solute transport model (BIOSCREEN).

MTBE concentration over distance semi-logarithmic graphs will be prepared using the source well MW-4 and two downgradient wells (MW-5 and MW-8) with the 16 June 2004, 2 June 2005, 19 September 2005, and 19 January 2006 sampling events and four future quarterly sampling events to show that the MTBE plume is generally stabilizing and/or decreasing in plume size. Concentration over time semi-logarithmic graphs will be prepared for all the applicable events for monitoring wells MW-4, MW-5, and MW-8. The solute degradation

rate will be obtained from the graphs using linear regression and the solute half-life will be calculated using the solute degradation rate.

The range of allowable values within the range of solute half-lives will be obtained and then a solute half-life for MTBE will be entered into the BIOSCREEN models, which gets converted into the first-order decay coefficient, and the fate and transport modeling and development of SSTLs will be re-evaluated.

Rationale for Selecting Tier 3 Evaluation

A Tier 3 Evaluation is deemed the appropriate corrective action since a "no decay" scenario is currently used to evaluate the fate and transport of MTBE in groundwater to the nearest POE. One POD well located approximately 30 feet from MW-4 (source well) shows consistent detections of MTBE concentrations exceeding the Tier 1 Groundwater Ingestion action level and another POD well located 60 feet from MW-4 indicates positive detections of MTBE concentrations; however, they have not exceeded the Tier 1 Groundwater Ingestion action level. To complete a Tier 3 Evaluation of the site, MTBE concentrations in groundwater from the source well and downgradient wells from several groundwater monitoring events are used to statistically derive a site-specific solute half-life for MTBE, which will be used to re-evaluate the fate and transport of MTBE to the nearest receptor and to obtain a Tier 3 SSTL for MTBE.

Tier 3 Schedule

If this plan is approved by BUSTR and the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB), the existing monitoring well network will be sampled on a quarterly basis for one year. All 10 wells (at the request of BUSTR) will be analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MTBE using U.S. Environmental Protection Agency (EPA) Method 8260B. The information mentioned above and the new groundwater data will be prepared within a Tier 3 Evaluation Report. If the Tier 3 SSTL for MTBE is not exceeded, then no further action will be requested. If the Tier 3 SSTL for MTBE is exceeded or concentrations increase, then additional corrective actions will be warranted.

Estimated Costs for Tier 3 Evaluation

Groundwater sampling – 4 quarters MW-1 through MW-10 (sampled for only BTEX and MTBE per U.S. EPA Method 8260B)	$9,930
Quarterly Groundwater Reporting –3 reports	$3,003
Tier 3 Evaluation Reporting	$5,137

Appendix D presents the cost estimate for the Tier 3 Plan.

6.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the field of environmental science, geology and engineering. This warranty is in lieu of all other warranties either expressed or implied. ATC is not responsible for information lacking as a result of non-disclosure by the recipient of this report, or independent conclusions, opinions, or recommendations made by others based on information in this report.

The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during the site investigation activities conducted by ATC. ATC and this report make no representation or assumptions as to past conditions or future occurrences.

7.0 REFERENCES

American Society for Testing and Materials, 1995, Standard Guide for Risk-Based Corrective Action at Petroleum Release Sites, ASTM Standard E1739-95.

Bureau of Underground Storage Tank Regulations, 2001, 2001: BUSTR Technical Guidance Manual, July 2001.

Groundwater Services, Inc, 1996: BIOSCREEN Natural Attenuation Decision Support System Version 1.3, Groundwater Services, Inc, Houston, Texas.

Groundwater Services, Inc, 1997: BIOSCREEN Natural Attenuation Decision Support System Version 1.4, Groundwater Services, Inc, Houston, Texas.

United States Geological Survey, USGS 7.5-Minute Series Topographic Map for Rossford, Ohio, 1988.

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-7 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-7 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-3 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-1 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-1 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-2 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-1 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-2 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-2 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-3 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.025	< 0.100	0.840	5.100	< 0.250
MW-2 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-2 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-3 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-3 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-4 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-4 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-5 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-5 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-5 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-5 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-5 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-6 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-6 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-2 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-2 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-3 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-3 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-1 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-1 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-2 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-1 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-3 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	Not Applicable	1.900	%
MW-3 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	Not Applicable	1.800	%
MW-7 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	Not Applicable	2.000	%
MW-7 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	Not Applicable	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-1								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
MW-2								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-4								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 100.000	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 100.000	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 100.000	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 100.000	2400.000	11000.000	**1500.000**
MW-5								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
MW-6								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-9	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-7								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600

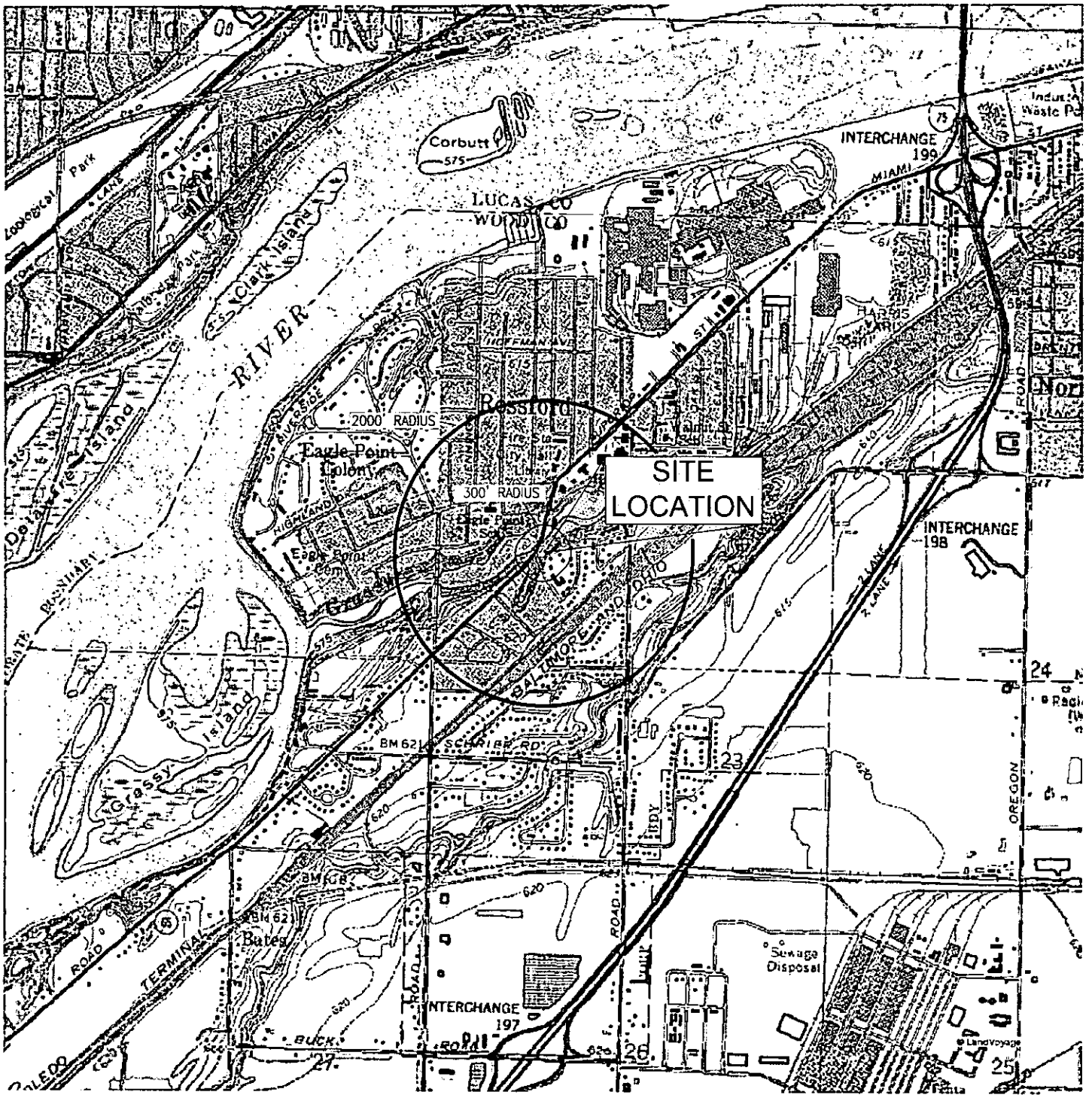
Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-8	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

TABLE 4
SITE-SPECIFIC TARGET LEVELS

Speedway SuperAmerica LLC Store #3642
939 East River Road (Dixie Highway)
Rossford, Ohio

	Highest Soil or Groundwater Concentration (mg/kg or mg/L)	Calculated SSTL (mg/kg or mg/l)	Exceedance
Soil to Indoor Air, Commercial - Benzene	1.70	9.51	NO
Soil Leaching to Drinking Water - Benzene	1.70	129	NO
Groundwater SSTL - Benzene	5.30	10.0	NO
Groundwater SSTL - Ethylbenzene	4.10	10.0	NO
Groundwater SSTL - Xylenes	16.0	100	NO
Groundwater SSTL - MTBE	3.00	0.040	YES
Groundwater to Indoor Air - Benzene	3.00	14.3	NO



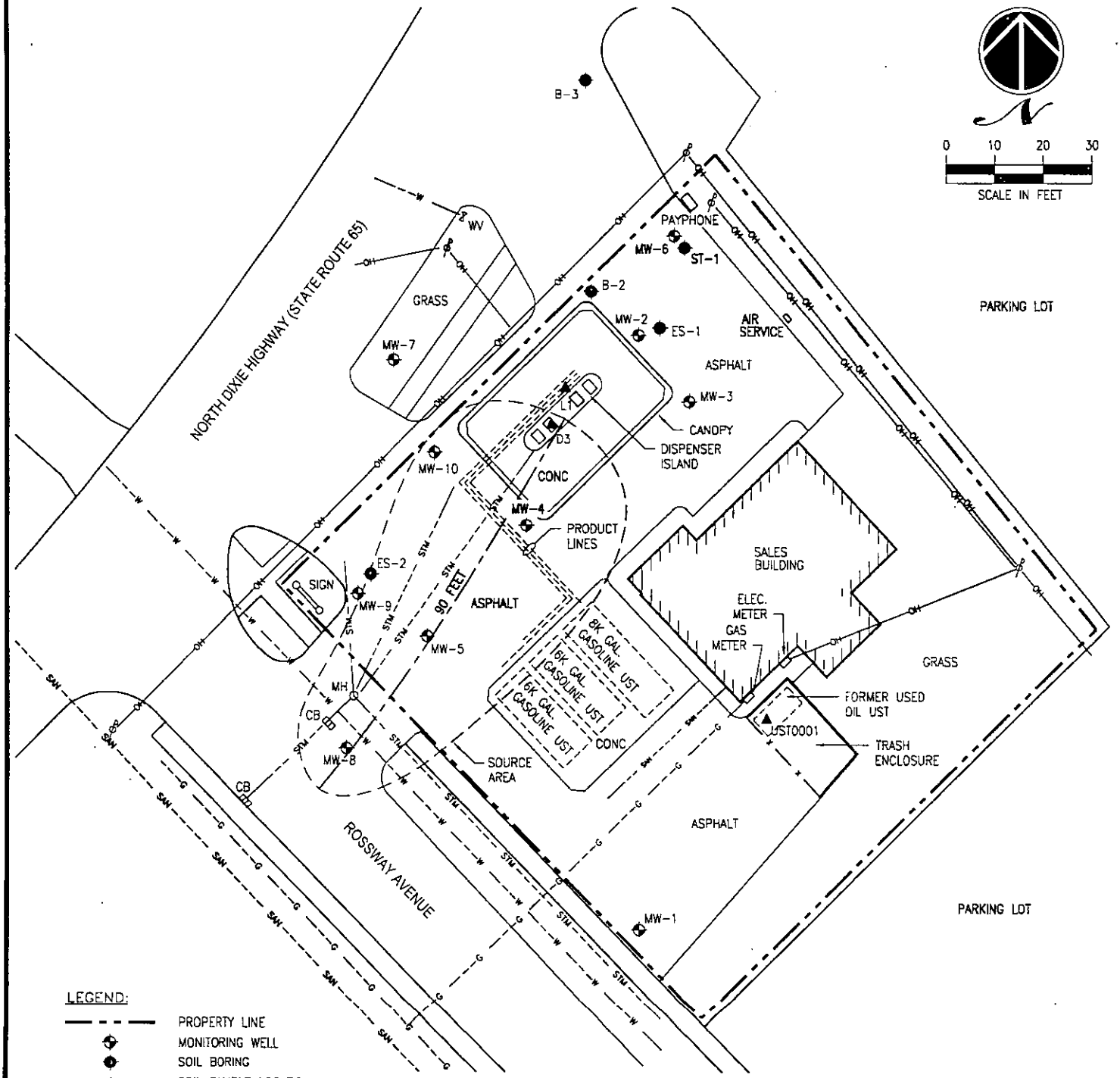
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



...SSA3642-01.dwg 11/10/06

VATC ASSOCIATES INC.

DATE: 12/8/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: SK	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

APPENDIX A
BUSTR CORRESPONDENCE

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

September 13, 2006

KEITH HUGHES
ADVANCED ENVIRONMENTAL REP.
SPEEDWAY SUPERAMERICA, LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 PETROLEUM RELEASE
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Hughes:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed our file for the site/release listed above, including your Tier 2 Addendum Report dated May 1, 2006. Based on our review, BUSTR requests the following:

1. The Tier 2 Addendum Report uses BIOSCREEN to evaluate the potential migration of benzene.
   - Please explain why 57.3 feet/year was used as the seepage velocity.
   - Provide additional information regarding the hydraulic gradient calculation. Based on several calculations using historical data, it appears that a better estimate of the hydraulic gradient in the vicinity of MW-4, MW-5, MW-7, MW-8, MW-9 and MW-10 would be approximately 0.03 feet/foot.
   - The fraction organic carbon (FOC) value used (0.010 g/g) does not agree with any of the data presented in Table 2. Please explain. In addition, all of the four soil samples tested for total organic carbon contained nearly identical ash contents and moisture contents, indicating that none of these four samples were collected below the groundwater table. Thus, the lab results should not be used in the BIOSCREEN model.

2. The Tier 2 report also uses the BIOSCREEN model to evaluate the potential migration of MTBE.
   - It appears that MW-5 should be considered a down-gradient well vis-à-vis MW-4 (rather than a side-gradient well within the source area). This conclusion is based on an observation that the MTBE concentrations at MW-5 show a slightly increasing trend since April of 2002, and that the groundwater flow direction has had a vector in that direction.
   - Because the model predicts that MTBE will reach the POE, a Tier 3, RAP or IRA are necessary to address MTBE in groundwater.

3. The Tier 2 report requests BUSTR approval to perform additional groundwater monitoring. BUSTR agrees that additional groundwater monitoring will be needed. However, please revise the BIOSCREEN model based on the comments listed above and then submit a revised Monitoring Plan. Also, please note that future groundwater monitoring activities should include all 10 of the monitoring wells, due to the relatively complex groundwater elevations and flow directions.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

APPENDIX B
BIOSCREEN FATE AND TRANSPORT MODELING

Table 1 : BIOSCREEN Input Table for Benzene Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	3.9	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9×10^{-5}	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.03	ft/ft	BUSTR request
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	1.4		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	58.9	L/kg	BUSTR Default Value for benzene
FRACTION ORGANIC CARBON	0.001		BUSTR Default
1^{ST} ORDER DECAY COEFFICIENT	0.35	per year	Calculation
SOLUTE HALF LIFE	1.97	years	BUSTR Default Value for benzene
MODELED LENGTH	250	ft	Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	27	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	5.3	mg/L	Maximum concentration found on-site in MW-4 on 16 June 2004.
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SSTL CONCENTRATION	10	mg/L	Maximum allowable concentration in source area that will degrade to below the Tier 1 action level prior to reaching the nearest POE.
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
POD WELLS	MW-5, MW-8		30 feet downgradient from MW-4 60 feet downgradient from MW-4
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA #3642
Benzene Migration

Data Input Instructions:
1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable: → Data used directly in model
20 → Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		↑1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		↑1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	1.4	(-)
or		↑1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	3.5E-1	(per yr)
or		↑1 or	
Solute Half-Life	t-half	1.97	(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO	0	(mg/L)
Delta Nitrate	NO3	0	(mg/L)
Observed Ferrous Iron	Fe2+	0	(mg/L)
Delta Sulfate	SO4	0	(mg/L)
Observed Methane	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	27.0	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone: 10 (ft)

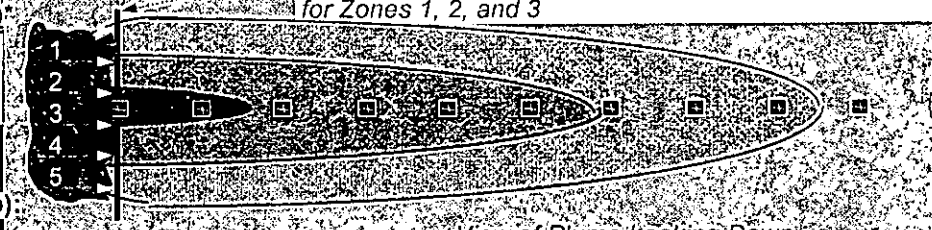
Source Zones:

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	5.3
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	4.2	.01	.005								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

6/2/2005 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

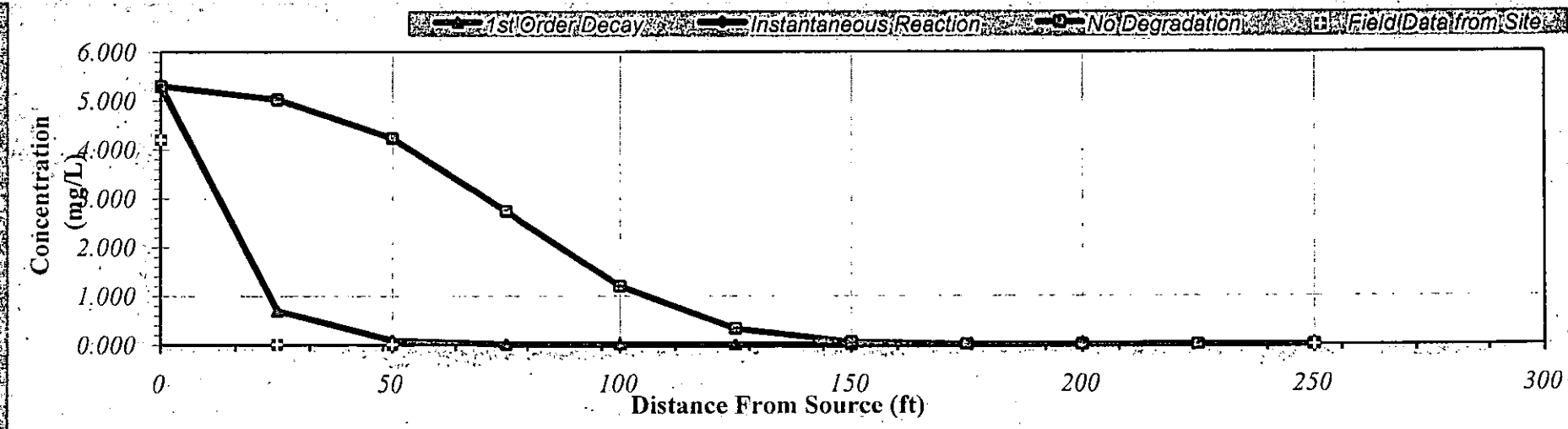
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
1st Order Decay	5.300	0.696	0.091	0.012	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
Field Data from Site	4.200	0.010	0.005								POE



Calculate Animation

Time: 27.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA #3642
Benzene Migration

Data Input Instructions:
115 — 1. Enter value directly ... or,
or — 2. Calculate by filling in grey
0.02 — cells below. (To restore
formulas, hit button below):
Variable — Data used directly in model
20 — Value calculated by model
(Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	1.4	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	3.5E-1	(per yr)
or		or	
Solute Half-Life	t-half	1.97	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO	0	(mg/L)
Delta Nitrate	NO3	0	(mg/L)
Observed Ferrous Iron	Fe2+	0	(mg/L)
Delta Sulfate	SO4	0	(mg/L)
Observed Methane	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	27.0	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone: 10 (ft)

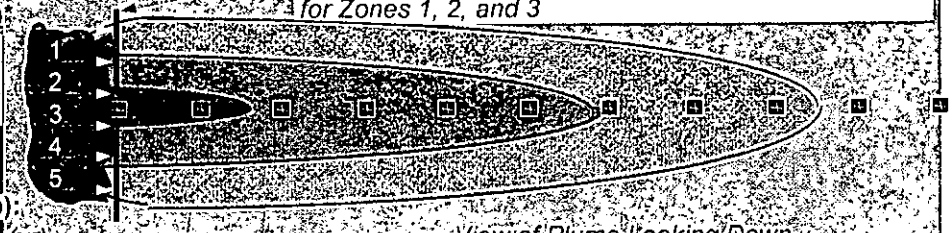
Source Zones

Width (ft)	Conc. (mg/L)
60	5.3
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass In Source NAPL Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	3.7	.01	.005								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

9/19/2005 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

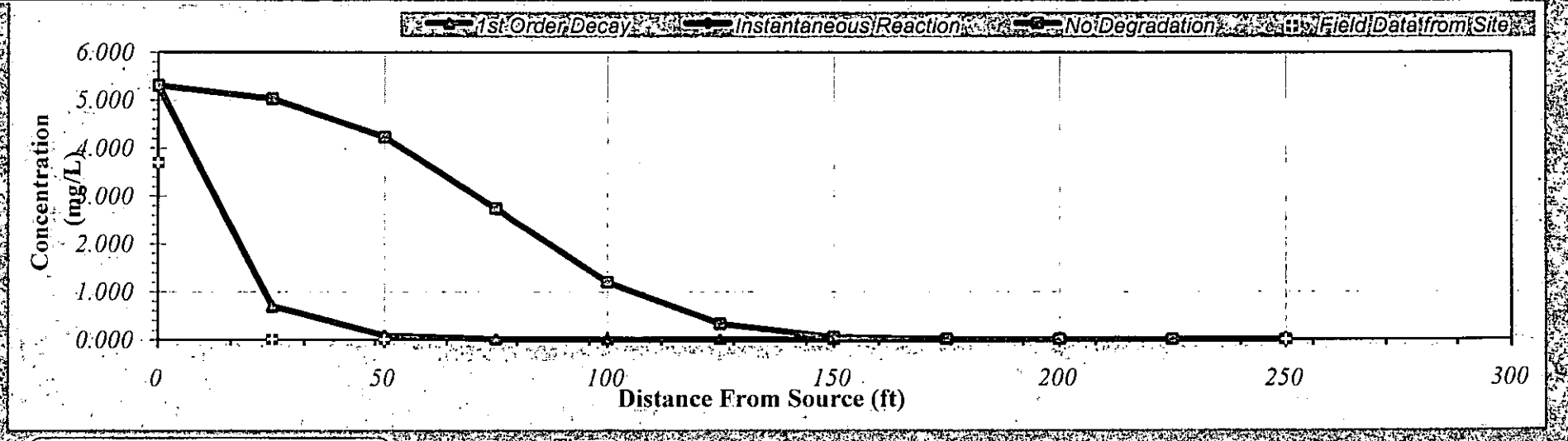
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
1st Order Decay	5.300	0.696	0.091	0.012	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
Field Data from Site	3.700	0.010	0.005								POE



Calculate Animation

Time: 27.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Benzene Migration

Data Input Instructions:
115 (or ↑) — 1. Enter value directly, or
0.02 — 2. Calculate by filling in grey cells below. (To restore formulas, hit button below)
Variable* — Data used directly in model
20 — Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity*	Vs	3.9	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	1.4	(-)
or		↑ or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.97	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	27.0	(yr)

6. SOURCE DATA

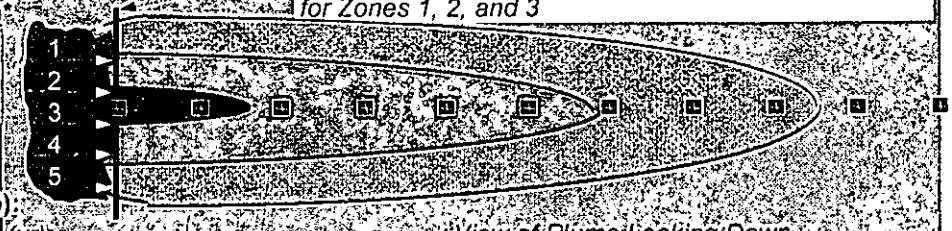
Source Thickness in Sat. Zone* 10 (ft)

Source Zones

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	5.3
4	0	0
5	0	0

Source Halflife (see Help):
Infinite | Infinite (yr)
Inst. React ↑ ↑ 1st Order
Soluble Mass: Infinite (Kg)
In Source NAPL / Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

7. FIELD DATA FOR COMPARISON

Observed Centerline Concentrations at Monitoring Wells
If No Data, Leave Blank or Enter "0"

Concentration (mg/L)	2.9	.005	.005								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

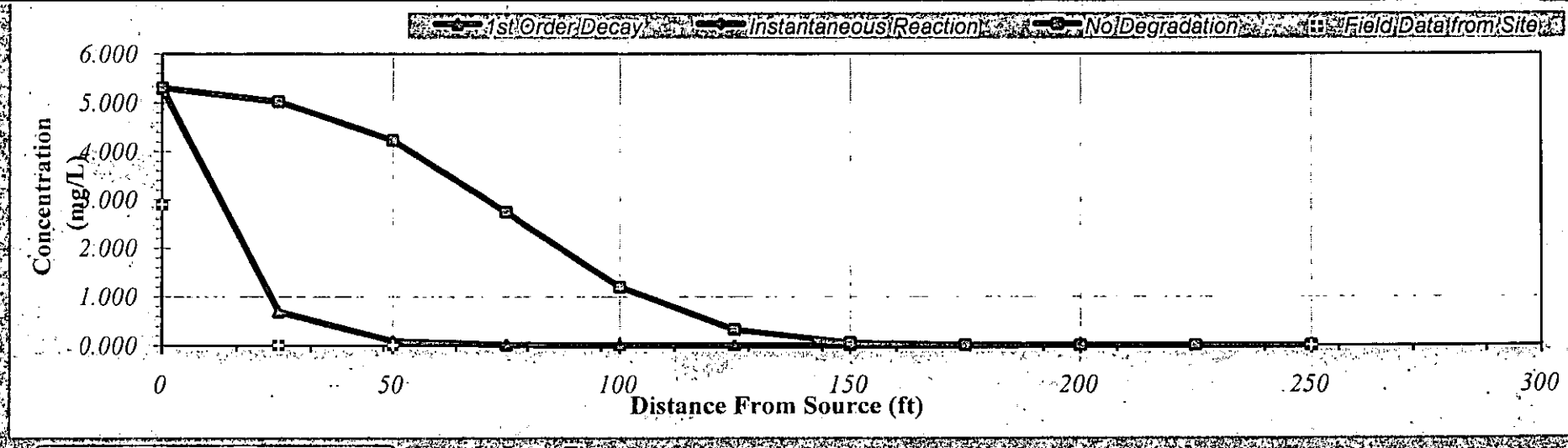
1/19/2006 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output
RUN ARRAY — View Output
Help
Recalculate This Sheet
Paste Example Dataset
Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	0	25	50	75	100	125	150	175	200	225	250
No Degradation	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
1st Order Decay	5.300	0.696	0.091	0.012	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.300	5.024	4.228	2.736	1.196	0.323	0.051	0.005	0.000	0.000	0.000
Field Data from Site	2.900	0.005	0.005								POE



Calculate Animation

Time: 27.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA #3642
Benzene Migration

Data Input Instructions:
1. Enter value directly or
2. Calculate by filling in grey cells below (if to restore formulas, hit button below)

Variable: Data used directly in model
20 Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity*	Vs	3.9	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	I	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

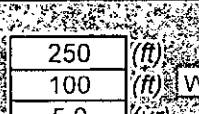
Retardation Factor*	R	1.4	(-)
or		↑ or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.97	(year)
or Instantaneous Reaction Model:			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	5.0	(yr)



6. SOURCE DATA

Source Thickness in Sat Zone* 10 (ft)

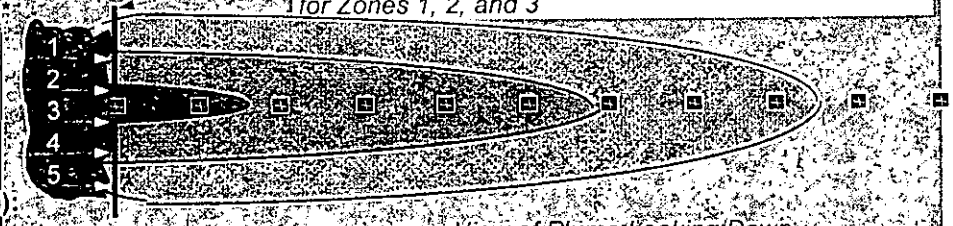
Source Zones:

Width (ft)	Conc. (mg/L)
60	5.3
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	2.9	.005	.005								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

1/19/2006 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

Recalculate This Sheet

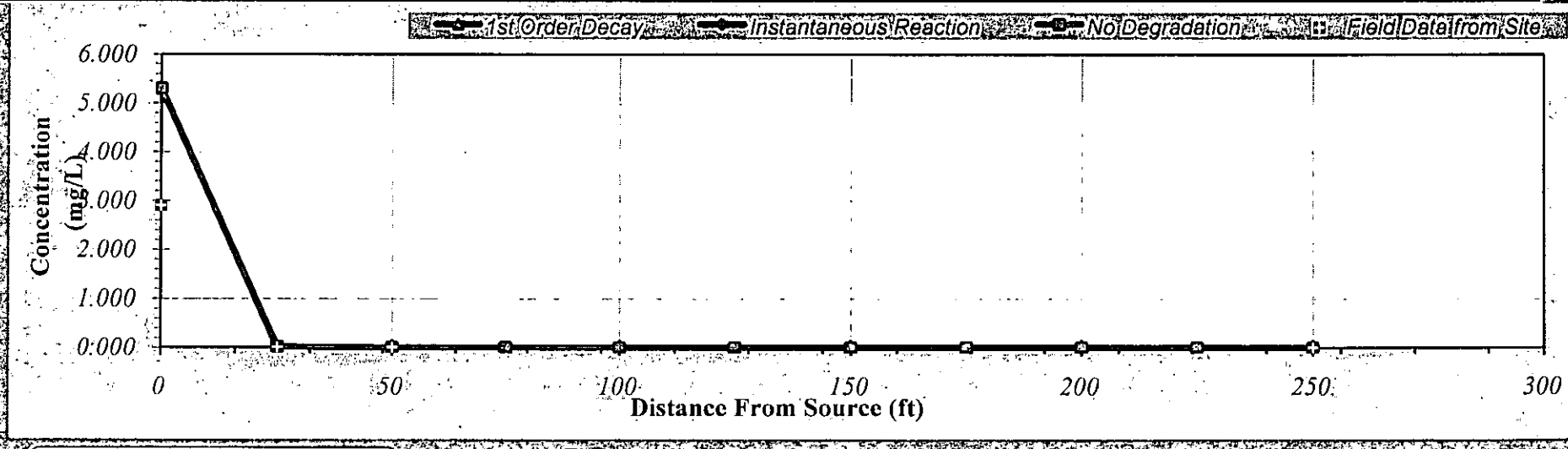
Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	25	50	75	100	125	150	175	200	225	250
No Degradation	5.300	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.300	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.300	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.900	0.005	0.005								POE



Calculate Animation

Time:
1.5 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Benzene SSTL

Data Input Instructions:
1. Enter value directly ... or
2. Calculate by filling in grey cells below (To restore formulas, hit button below)

Variable ▸ Data used directly in model
20 ▸ Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		↑1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		↑1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	1.4	(-)
or		↑1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	58.9	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	3.5E-1	(per yr)
or		↑1 or	
Solute Half-Life	t-half	1.97	(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO	0	(mg/L)
Delta Nitrate	NO3	0	(mg/L)
Observed Ferrous Iron	Fe2+	0	(mg/L)
Delta Sulfate	SO4	0	(mg/L)
Observed Methane	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	27.0	(yr)

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

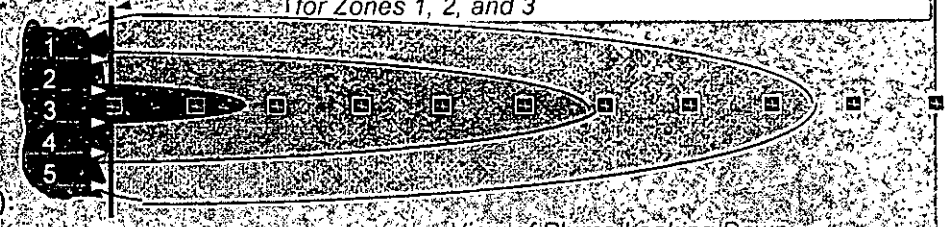
Source Zones

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	10
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	POE 250
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

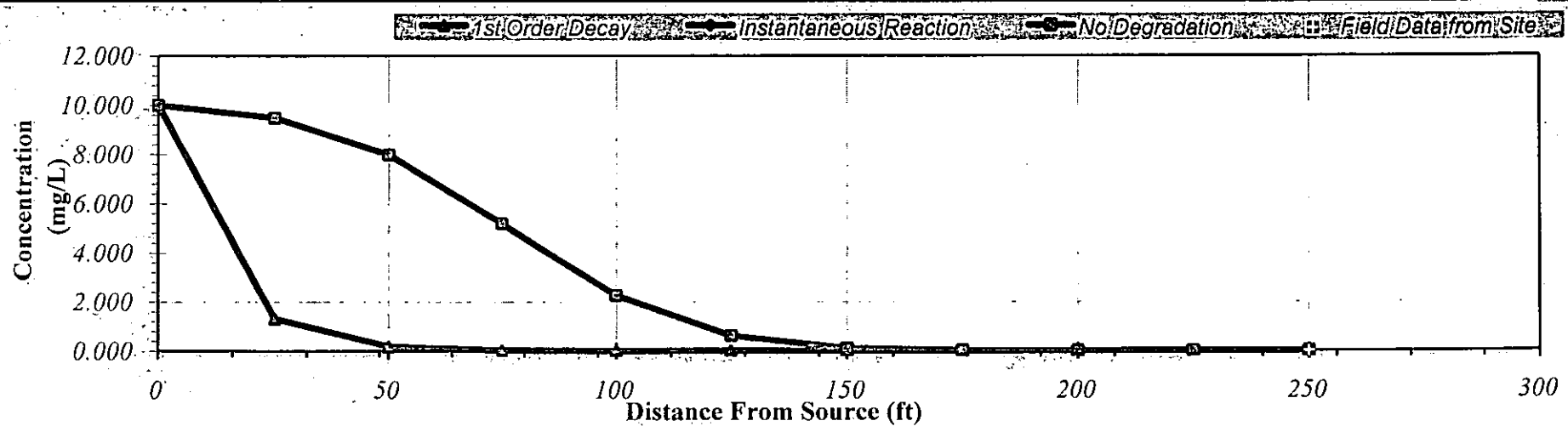
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	10.000	9.479	7.978	5.163	2.257	0.610	0.097	0.009	0.000	0.000	0.000
1st Order Decay	10.000	1.314	0.173	0.023	0.003	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	10.000	9.479	7.978	5.163	2.257	0.610	0.097	0.009	0.000	0.000	0.000
Field Data from Site											POE



Calculate Animation

Time: 27.0 Years

Return to Input

Recalculate This Sheet

Table 2 : BIOSCREEN Input Table for Ethylbenzene Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	3.9	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9×10^{-3}	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.03	ft/ft	BUSTR request
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	3.3		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	363	L/kg	BUSTR Default Value for ethylbenzene
FRACTION ORGANIC CARBON	0.001		BUSTR Default
1^{ST} ORDER DECAY COEFFICIENT	1.1	per year	Calculation
SOLUTE HALF LIFE	0.62	years	BUSTR Default Value for ethylbenzene
MODELED LENGTH	250	ft	Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	6	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	4.1	mg/L	Maximum concentration found on-site in MW-4 on 2 June 2005.
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SSTL CONCENTRATION	10	mg/L	Maximum allowable concentration in source area that will degrade to below the Tier 1 action level prior to reaching the nearest POE.
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
POD WELLS	MW-5, MW-8		30 feet downgradient from MW-4 60 feet downgradient from MW-4
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Ethylbenzene Migration

Data Input Instructions:
1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable — Data used directly in model
20 — Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	190	(ft)

3. ADSORPTION

Retardation Factor	R	3.3	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	363	(l/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	1.1E+0	(per yr)
or		or	
Solute Half-Life	t-half	0.62	(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

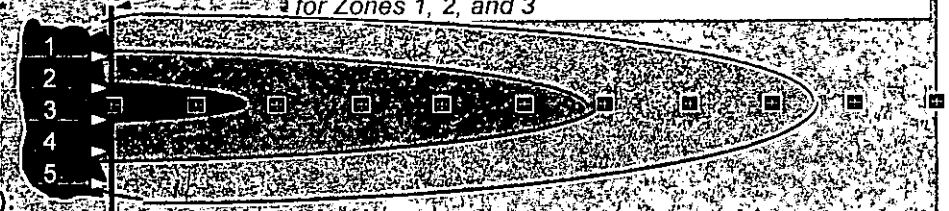
Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	6.0	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone: 10 (ft)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones	Width (ft)	Conc. (mg/L)
1		
2		
3	60	4.1
4	0	0
5	0	0



View of Plume Looking Down

Source Halflife (see Help):

Soluble Mass	Inst. React.	1st Order
Infinite	Infinite	(yr)
Infinite		(Kg)

In Source NAPL, Soil

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	2.6
25	.01
50	.005
75	
100	
125	
150	
175	
200	
225	
250	

9/19/2005 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

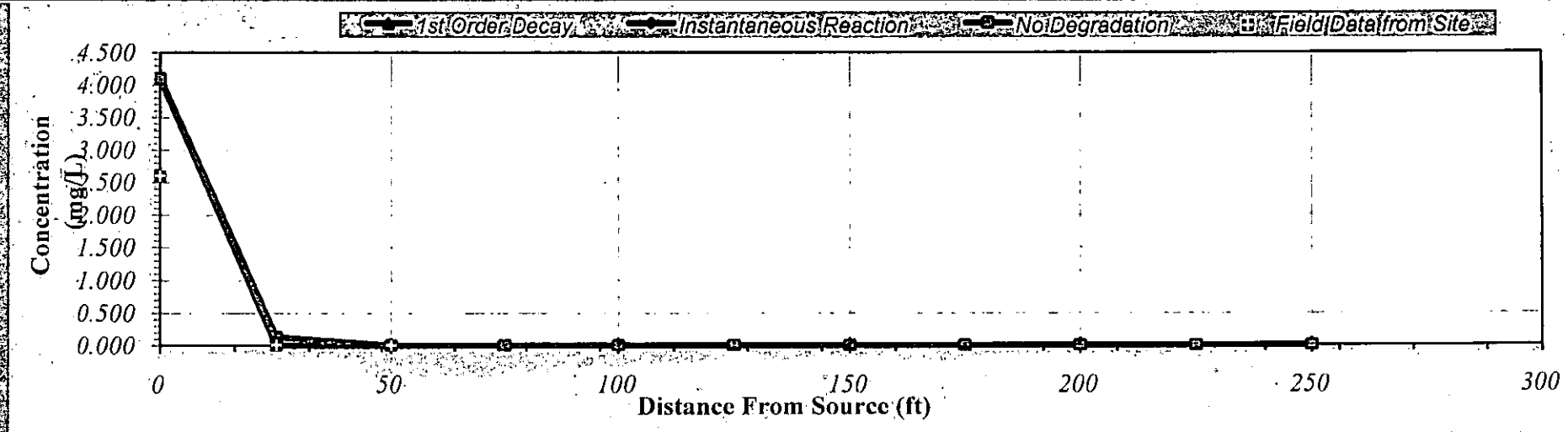
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	4.100	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	4.100	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.100	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.600	0.010	0.005								



Calculate Animation

Time: 6.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Ethylbenzene Migration

Data Input Instructions:
1. Enter value directly or
2. Calculate by filling in grey cells below (To restore formulas, hit button below)

Variable — Data used directly in model
Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		↑ 1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	I	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alphax	6.5	(ft)
Transverse Dispersivity	alphay	0.7	(ft)
Vertical Dispersivity	alphaz	0.0	(ft)
or		↑ 1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	3.3	(-)
or		↑ 1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	363	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	1.1E+0	(per yr)
or		↑ 1 or	
Solute Half-Life	t-half	0.62	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	6.0	(yr)

Variable: 20

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

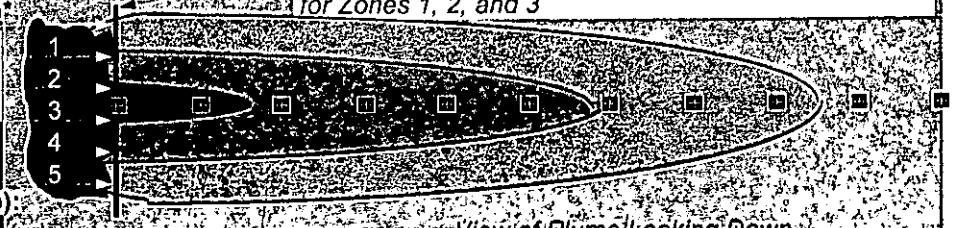
Source Zones:

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	4.1
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL	Soil	

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)	1/19/2006
0	2.4	MW-4
25	.005	MW-5
50	.005	MW-8
75		
100		
125		
150		
175		
200		
225		
250		

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

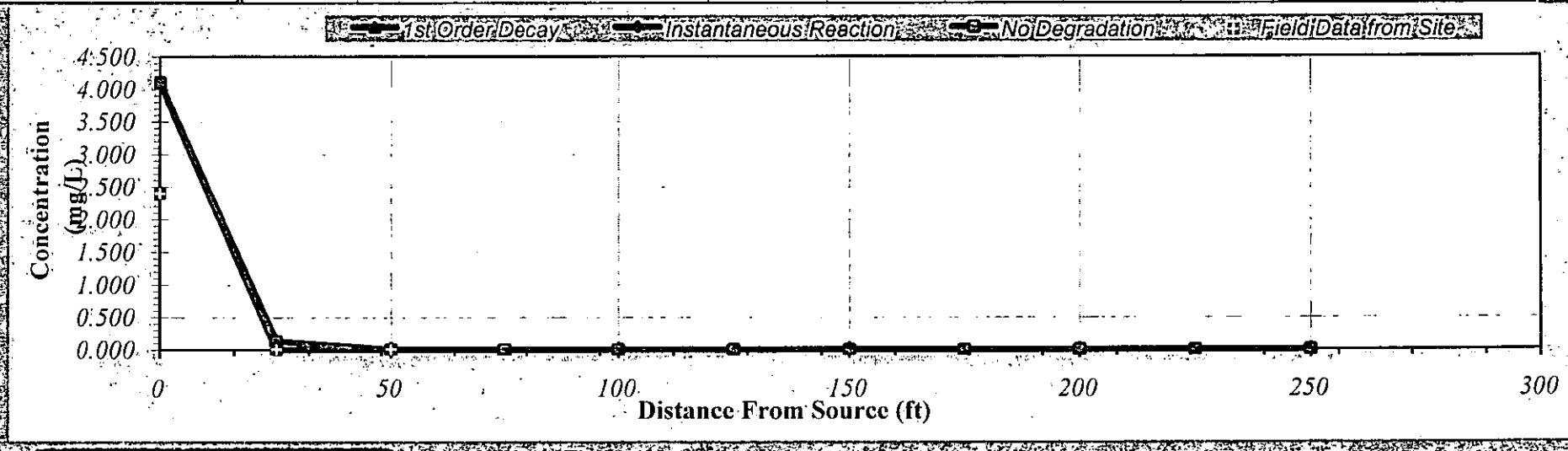
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	4.100	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	4.100	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	4.100	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.400	0.005	0.005								



Calculate Animation

Time: 6.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA #3642
Ethylbenzene SSTL

Data Input Instructions:
1. Enter value directly in, or
2. Calculate by filling in grey cells below: (To restore formulas, hit button below)

Variable: Data used directly in model
Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	3.3	(-)
or		or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	363	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff	lambda	1.1E+0	(per yr)
or		or	
Solute Half-Life	t-half	0.62	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	6.0	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone: 10 (ft)

Source Zones:

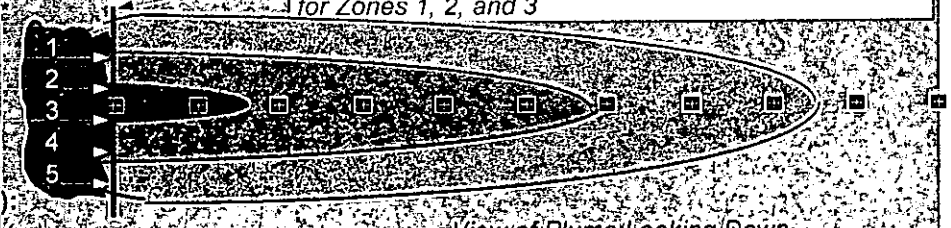
Width (ft)	Conc. (mg/L)
60	10
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells: If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
25	
50	
75	
100	
125	
150	
175	
200	
225	
250	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

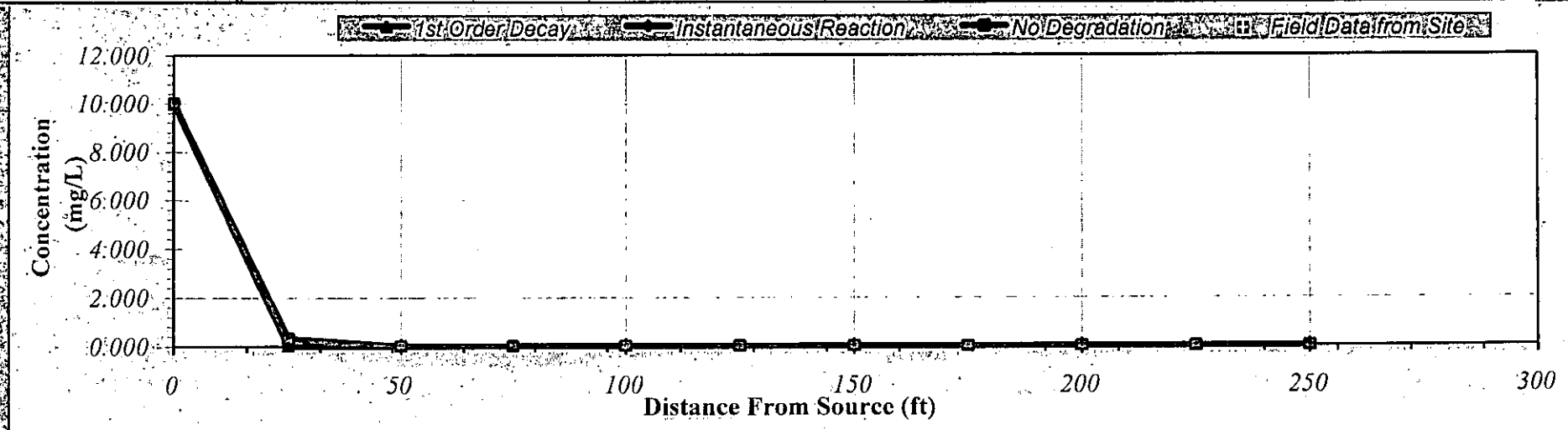
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	10.000	0.319	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	10.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	10.000	0.319	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:
6.0 Years

Return to Input

Recalculate This Sheet

Table 3 : BIOSCREEN Input Table for Total Xylenes Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	3.9	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9×10^{-5}	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.03	ft/ft	BUSTR request
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	2.5		Calculation
SOIL BULK DENSITY	1.95	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	240	L/kg	BUSTR Default Value for total xylenes
FRACTION ORGANIC CARBON	0.001		BUSTR Default
1^{ST} ORDER DECAY COEFFICIENT	0.69	per year	Calculation
SOLUTE HALF LIFE	1.0	years	BUSTR Default Value for total xylenes
MODELED LENGTH	250	ft	Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	12	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	16	mg/L	Maximum concentration found on-site in MW-4 on 2 June 2005.
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SSTL CONCENTRATION	100	mg/L	Maximum allowable concentration in source area that will degrade to below the Tier 1 action level prior to reaching the nearest POE.
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
POD WELLS	MW-5, MW-8		30 feet downgradient from MW-4 60 feet downgradient from MW-4
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA 3642 — xylenes migration — Run Name

Data Input Instructions:
1. Enter value directly, or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable: ▸ Data used directly in model; Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity*	Vs	3.9	(ft/yr)
or		1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	2.5	(-)
or		1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	240	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-1	(per yr)
or		1 or	
Solute Half-Life	t-half	1.00	(year)

or Instantaneous Reaction Model

Delta Oxygen*	DO		(mg/L)
Delta Nitrate*	NO3		(mg/L)
Observed Ferrous Iron*	Fe2+		(mg/L)
Delta Sulfate*	SO4		(mg/L)
Observed Methane*	CH4		(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	12.0	(yr)

6. SOURCE DATA

Source Thickness in Sat Zone* 10 (ft)

Source Zones:

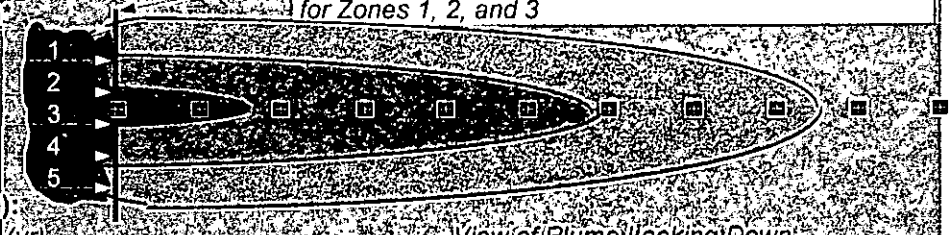
	Width* (ft)	Conc* (mg/L)
1		
2		
3	60	16
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)

In Source NAPL Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	12.0	.01	.005								
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250
19-Sep-05	MW-4	MW-5	MW-8								

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

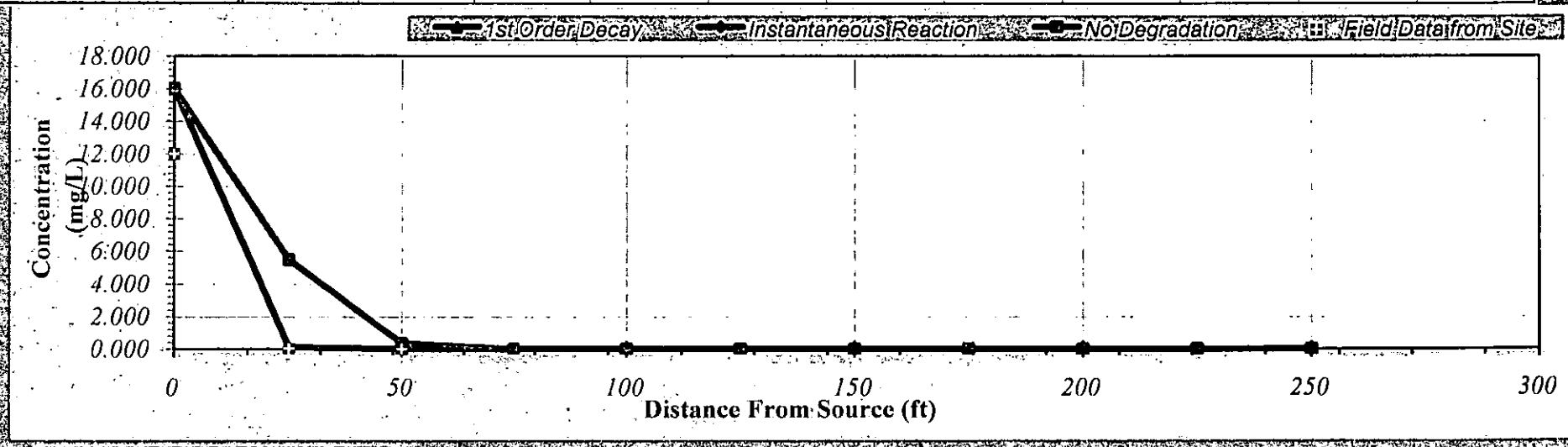
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	16.000	5.454	0.354	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	16.000	0.119	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	16.000	5.454	0.354	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	12.000	0.010	0.005								



Calculate Animation

Time: 12.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA 3642 — xylenes migration — *Run Name*

Data Input Instructions:

1. Enter value directly ... or,
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable: *Data used directly in model.*

20 — *Value calculated by model. (Don't enter any data)*

1. HYDROGEOLOGY

Seepage Velocity*	Vs	3.9	(ft/yr)
or		1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	2.5	(-)
or		1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	240	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.9E-1	(per yr)
or		1 or	
Solute Half-Life	t-half	1.00	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO		(mg/L)
Delta Nitrate*	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate*	SO4		(mg/L)
Observed Methane*	CH4		(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	12.0	(yr)

6. SOURCE DATA

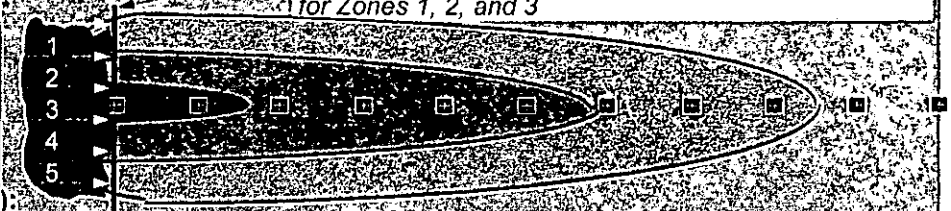
Source Thickness in Sat Zone: 10 (ft)

Source Zones	Width* (ft)	Conc. (mg/L)
1		
2		
3	60	16
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL / Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells

If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	11.0
25	.005
50	.005
75	
100	
125	
150	
175	
200	
225	
250	

19-Jan-06 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

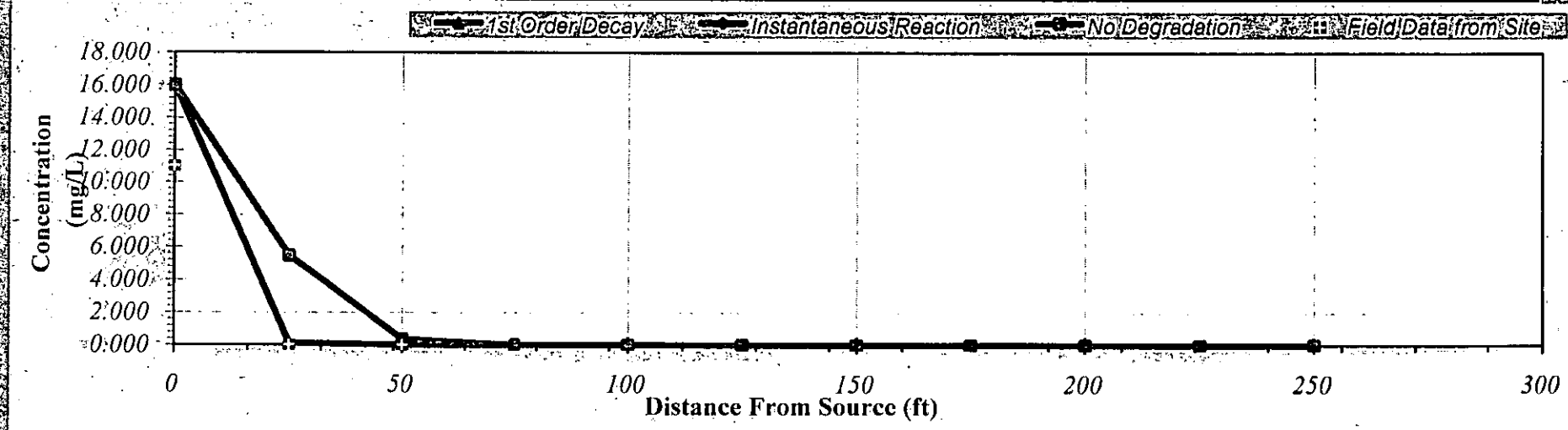
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	16.000	5.454	0.354	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	16.000	0.119	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	16.000	5.454	0.354	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	11.000	0.005	0.005								



Calculate Animation

Time:
12.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

SSA 3642
xylenes SSTL

Data Input Instructions:
1. Enter value directly or
2. Calculate by filling in grey cells below (To restore formulas, hit button below)

Variable: ▸ Data used directly in model
20 ▸ Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	2.5	(-)
or		1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	240	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff	lambda	6.9E-1	(per yr)
or		1 or	
Solute Half-Life	t-half	1.00	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO		(mg/L)
Delta Nitrate	NO3		(mg/L)
Observed Ferrous Iron	Fe2+		(mg/L)
Delta Sulfate	SO4		(mg/L)
Observed Methane	CH4		(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	17.0	(yr)

6. SOURCE DATA

Source Thickness in Sat Zone: 10 (ft)

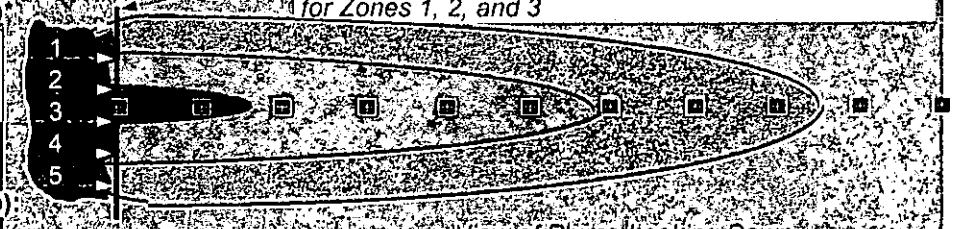
Source Zones:

	Width (ft)	Conc. (mg/L)
1		
2		
3	60	100
4	0	0
5	0	0

Source Halflife (see Help)

	Infinite	Infinite (yr)
Inst. React		1st Order
Soluble Mass	Infinite	(Kg)
In Source	NAPL	Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

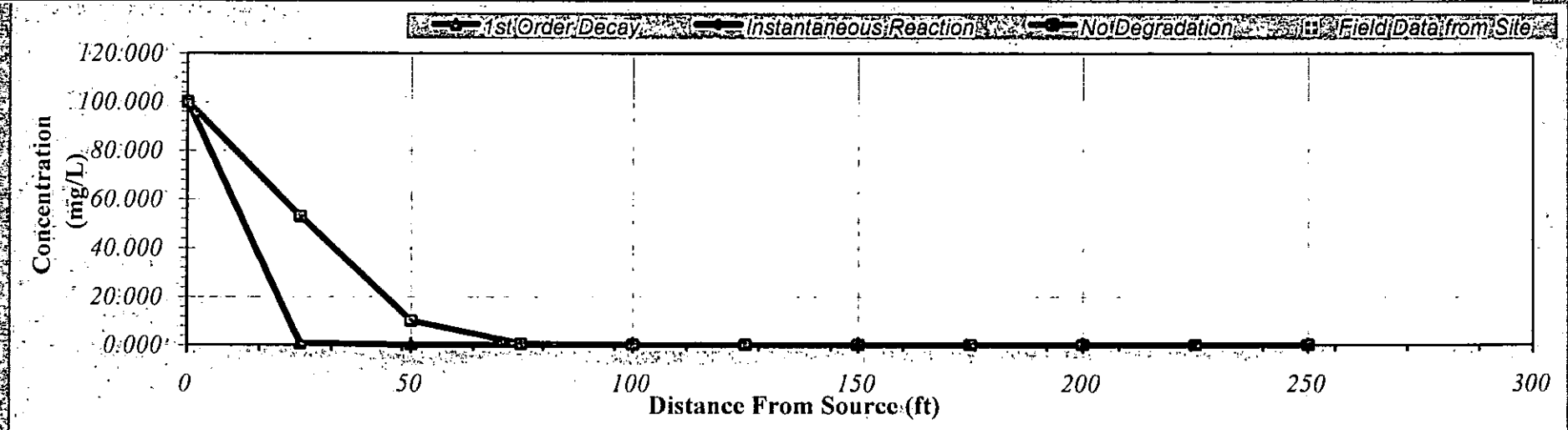
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	100.000	52.896	10.145	0.440	0.004	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	100.000	0.747	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	100.000	52.896	10.145	0.440	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:
17.0 Years

Return to Input

Recalculate This Sheet

Table 4: BIOSCREEN Input Table for MTBE Migration (Modified from April 10, 2003 BUSTR Fact Sheet)

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	3.9	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9×10^{-5}	cm/sec	Hydraulic conductivity value from MW-4
HYDRAULIC GRADIENT	0.03	ft/ft	BUSTR request
POROSITY	0.313	cm^3/cm^3	MW-6 (19-21)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
RETARDATION FACTOR	1.0		Calculation
SOIL BULK DENSITY	-	kg/L	MW-6 (19-21)
PARTITION COEFFICIENT	-	L/kg	BUSTR Default Value for MTBE
FRACTION ORGANIC CARBON	-		BUSTR Default
1^{ST} ORDER DECAY COEFFICIENT	0	per year	Calculation
SOLUTE HALF LIFE	-	years	BUSTR Default Value for MTBE
MODELED LENGTH	250	ft	Point of Exposure
MODELED AREA WIDTH	100	ft	Estimated Width
SIMULATION TIME	147	years	Estimated time to reach steady state conditions.
SOURCE WIDTH	60	feet	Estimated from site data
SOURCE CONCENTRATIONS	3	mg/L	Maximum concentration found on-site in MW-4 on 14 June 2004.
SOURCE THICKNESS IN SATURATED ZONE	10	ft	BUSTR Guidelines
SSTL CONCENTRATION	-	mg/L	Maximum allowable concentration in source area that will degrade to below the Tier 1 action level prior to reaching the nearest POE.
SOURCE HALF-LIFE	Infinite	years	BUSTR Guidelines
POD WELLS	MW-5, MW-8		30 feet downgradient from MW-4 60 feet downgradient from MW-4
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA No. 3642
MTBE migration

Data Input Instructions:
1. Enter value directly, or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable — Data used directly in model
20 — Value calculated by model (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	1.0	(-)
or		1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	6	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff.	lambda	0.0E+0	(per yr)
or		1 or	
Solute Half-Life	t-half	0.00	(year)
or Instantaneous Reaction Model			
Delta Oxygen	DO	0	(mg/L)
Delta Nitrate	NO3	0	(mg/L)
Observed Ferrous Iron	Fe2+	0	(mg/L)
Delta Sulfate	SO4	0	(mg/L)
Observed Methane	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	147	(yr)

6. SOURCE DATA

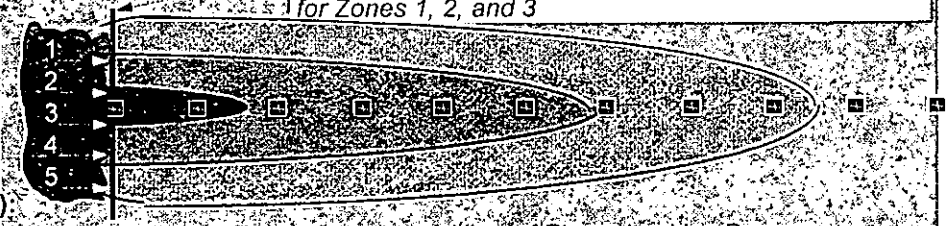
Source Thickness in Sat Zone: 10.00 (ft)

Source Zones	Width (ft)	Conc. (mg/L)
1	0	0
2	0	0
3	60	3
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	2.8	1.52	.007								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

6/2/2005 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

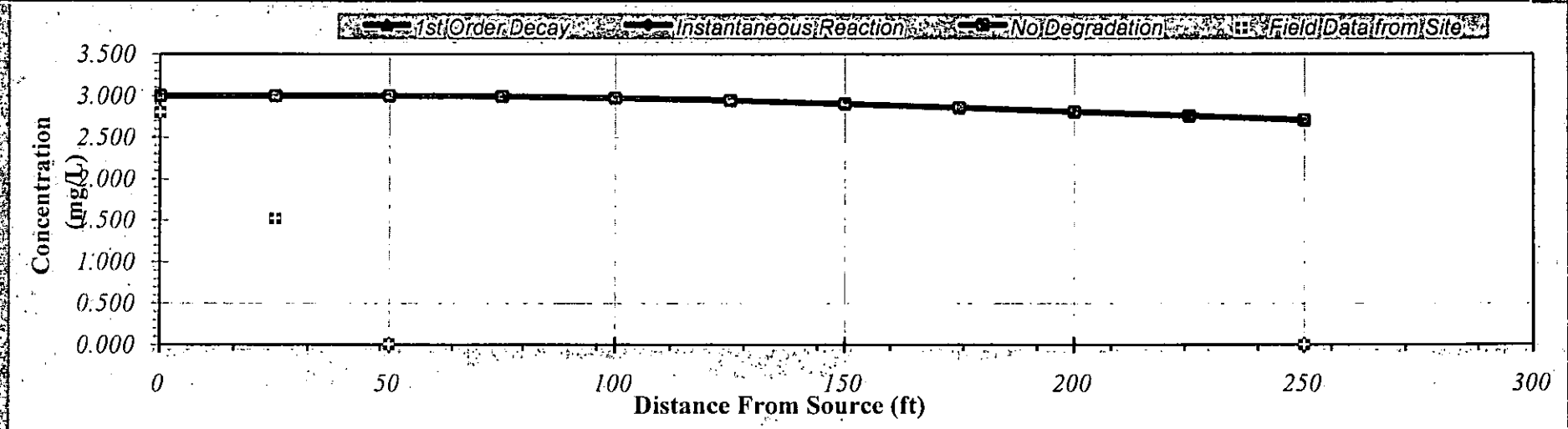
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	10	25	50	75	100	125	150	175	200	225	250
No Degradation	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
1st Order Decay	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Inst. Reaction	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Field Data from Site	2.800	1.520	0.007								POE



Calculate Animation

Time: 147.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA No. 3642
MTBE migration

Data Input Instructions:
1. Enter value directly ... or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below)

Variable — Data used directly in model
20 — Value calculated by model. (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity	Vs	3.9	(ft/yr)
or		↑1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity	alpha x	6.5	(ft)
Transverse Dispersivity	alpha y	0.7	(ft)
Vertical Dispersivity	alpha z	0.0	(ft)
or		↑1 or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor	R	1.0	(-)
or		↑1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	6	(L/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

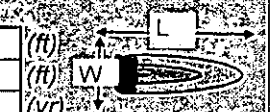
1st Order Decay Coeff.	lambda	0.0E+0	(per yr)
or		↑1 or	
Solute Half-Life	t-half	2.01	(year)

or Instantaneous Reaction Model

Delta Oxygen	DO	0	(mg/L)
Delta Nitrate	NO3	0	(mg/L)
Observed Ferrous Iron	Fe2+	0	(mg/L)
Delta Sulfate	SO4	0	(mg/L)
Observed Methane	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length	250	(ft)
Modeled Area Width	100	(ft)
Simulation Time	147	(yr)



6. SOURCE DATA

Source Thickness in Sat Zone: 10.00 (ft)

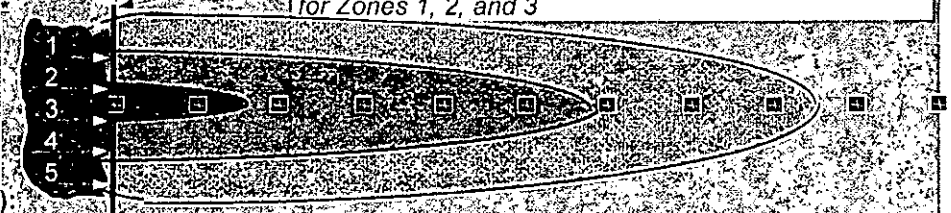
Source Zones:

	Width (ft)	Conc. (mg/L)
1	0	0
2	0	0
3	60	3
4	0	0
5	0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	2.6	1.7	.007								
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

9/19/2005 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

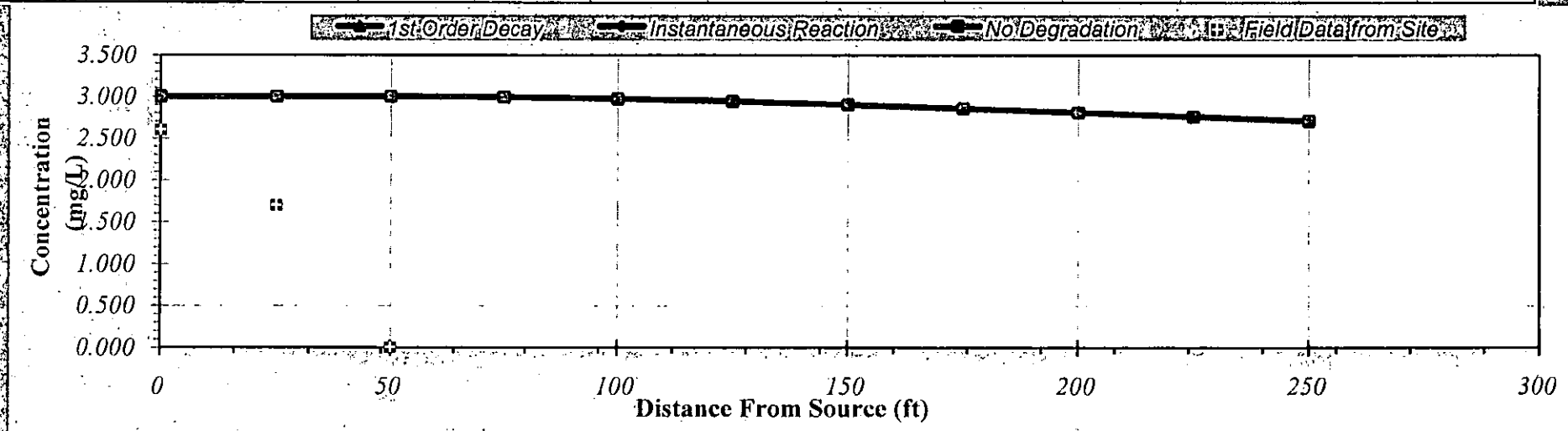
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	0	25	50	75	100	125	150	175	200	225	250
No Degradation	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
1st Order Decay	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Inst. Reaction	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Field Data from Site	2.600	1.700	0.007								



Calculate Animation

Time: 147.0 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

SSA No. 3642
MTBE migration

Data Input Instructions:
115 — 1. Enter value directly ... or
or — 2. Calculate by filling in grey
0.02 — cells below. (To restore formulas, hit button below)
Variable — Data used directly in model.
20 — Value calculated by model. (Don't enter any data)

1. HYDROGEOLOGY

Seepage Velocity*	Vs	3.9	(ft/yr)
or		1 or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.313	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		1 or	
Estimated Plume Length	Lp	190	(ft)

3. ADSORPTION

Retardation Factor*	R	1.0	(-)
or		1 or	
Soil Bulk Density	rho	1.95	(kg/l)
Partition Coefficient	Koc	6	(l/kg)
Fraction Organic Carbon	foc	1.0E-3	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	0.0E+0	(per yr)
or		1 or	
Solute Half-Life	t-half	2.01	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	250	(ft)
Modeled Area Width*	100	(ft)
Simulation Time*	147	(yr)

6. SOURCE DATA

Source Thickness in Sat. Zone* 10.00 (ft)

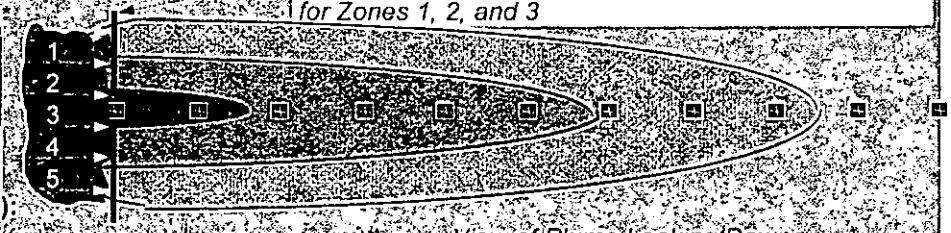
Source Zones

Width* (ft)	Conc.* (mg/L)
0	0
0	0
60	3
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	1st Order	
Soluble Mass	Infinite	(Kg)
In Source NAPL Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	1.5	.68	.005								POE
Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250

1/19/2006 MW-4 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — View Output

RUN ARRAY — View Output

Help

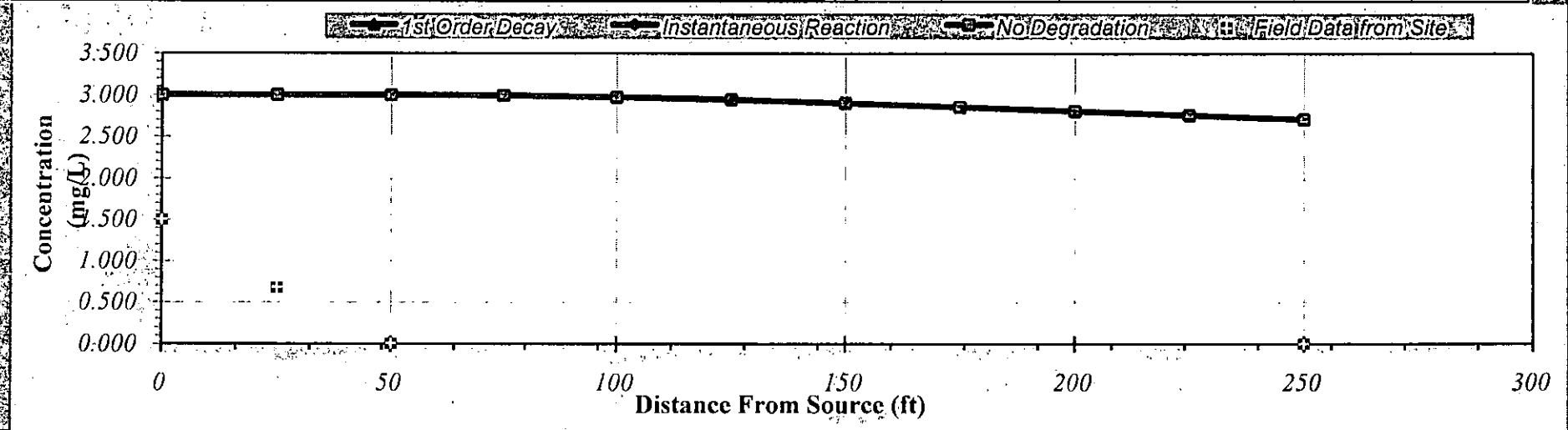
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft)										
	0	25	50	75	100	125	150	175	200	225	250
No Degradation	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
1st Order Decay	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Inst. Reaction	3.000	3.000	2.999	2.993	2.974	2.943	2.903	2.857	2.809	2.758	2.708
Field Data from Site	1.500	0.680	0.005								POE



Calculate Animation

Time: 147.0 Years

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2006 DEC 4 PM 2:15
STATE FIRE MARSHAL

APPENDIX C

DRAFT ENVIRONMENTAL COVENANT

Document Number	**ENVIRONMENTAL COVENANT**

In Re: 939 Dixie Highway, Rossford, Ohio 43460:

See attached legal description

Real Estate Department
539 S. Main Street, Findlay, OH 45840

Parcel Identification Number PIN

STATE OF OHIO)
) ss:
COUNTY OF WOOD)

This Environmental Covenant is entered into by Speedway SuperAmerica LLC and the Ohio State Fire Marshal pursuant to Ohio Revised Code ("ORC") §§ 5301.80 to 5301.92 for the purpose of subjecting the Property to the activity and use limitations set forth herein.

The Property Owner is responsible for performing corrective action pursuant to the requirements of the State of Ohio's underground storage tank laws ("UST Laws"), under sections 3737.88, 3737.882 and 3737.89 of the Ohio Revised Code ("ORC") and the regulations promulgated thereunder, as administered by the Ohio Department of Commerce, Division of the State Fire Marshal, Bureau of Underground Storage Tank Regulations ("BUSTR"), to address certain petroleum contamination that resulted from Property Owner's operations at the Property BUSTR Release Number #87000087-N00002;

The Property is currently under corrective actions (OAC 1301-7-9-13) for BUSTR Release #87000087-N00002. The chemicals of concern are those associated with BUSTR Analytical Group 1: benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE). The site is currently classified as a Tier 2 site to facilitate the development of risk-based, site specific target levels.

All administrative records regarding the petroleum release and corrective action process, pursuant to chapter 3737 of the Ohio Revised Code, that occurred at the Property that is the subject of this Environmental Covenant may be obtained through a public records request by requesting information on Speedway SuperAmerica LLC Store #3642 under BUSTR Release Number #87000087-N00002 and contacting:

Bureau of Underground Storage Tank Regulations
Attention: Public Information Clerk
8895 East Main Street
PO Box 687
Reynoldsburg, OH 43068

NOW THEREFORE, Property Owner, for itself and all heirs, successors and assigns in interest, and Ohio State Fire Marshal agree to the following:

1. **Environmental Covenant.** This instrument is an environmental covenant developed and executed pursuant to ORC §§ 5301.80 to 5301.92.

2. **Description of Property.** This Environmental Covenant concerns real property parcels as numbered herein owned by Speedway SuperAmerica LLC located at 939 Dixie Highway, Rossford, Wood County, Ohio, and more particularly described in Exhibit A attached hereto and hereby incorporated by reference herein ("Property").

3. **Owners.** Speedway SuperAmerica LLC, located at 500 Speedway Drive, Enon, OH 45323 is the property owner of record.

4. **Holders.** The Ohio State Fire Marshal, the Owner(s), whose address is listed above are the Holders of this Environmental Covenant.

5. **Activity and Use Restrictions.** As part of the corrective action at the Subject Property and in consideration for the Ohio State Fire Marshal's forbearance to require unrestricted land use for the Subject Property and to issue a no further action status, Owner hereby imposes and agrees to comply with the following activity and use limitations:

(a) Prohibition Against Extraction of Groundwater. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum in groundwater located at or underlying the Property described herein, no person shall extract the groundwater located at or underlying the Property or any portion thereof for any purpose, potable or otherwise, except for groundwater investigation or remediation.

(b) Land Use Restriction. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum on and underlying the Property described herein, the Property and any portion thereof is hereby restricted to "Non-Residential Land Use" only, as that term is defined in Ohio Administrative Code ("OAC") 1301:7-9-13(C)(17) (effective March 1, 2005).

(c) Prohibition Against Basements. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum on and underlying the Property described herein, no basement or other permanent subsurface or underground structure designed for routine human occupancy shall be constructed at the property.

6. **Running with the Land.** This Environmental Covenant shall be binding upon the Owner and all assigns and successors in interest, including any Transferee, and shall run with the land, pursuant to ORC § 5301.85, subject to amendment or termination as set forth herein. The term "Transferee" as used in this Environmental Covenant, shall mean any future owner of any interest in the Property or any portion thereof, including, but not limited to, owners of an interest in fee simple, mortgagees, easement holders, and/or lessees.

7. **Compliance Enforcement.** Compliance with this Environmental Covenant may be enforced pursuant to ORC § 5301.91. Failure to timely enforce compliance with this Environmental Covenant or the use limitations contained herein by any party shall not bar subsequent enforcement by such party and shall not be deemed a waiver of the party's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict the Ohio State Fire Marshal from exercising any authority under applicable law.

8. **Rights of Access.** Owner(s) hereby grants to Ohio State Fire Marshal, its agents, contractors, employees and the local government including representatives for Wood County and City of Rossford, Ohio the right of access to the Property for implementation or enforcement of this Environmental Covenant.

9. **Notice upon Conveyance.** Each instrument hereafter conveying any interest in the Property or any portion of the Property shall contain a notice of the activity and use limitations set forth in this Environmental Covenant, and provide the recorded location of this Environmental Covenant. The notice shall be substantially in the following form:

> THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL COVENANT, DATED _____, 200__, RECORDED IN THE DEED OR OFFICIAL RECORDS OF THE WOOD COUNTY RECORDER ON _____, 200_, IN [DOCUMENT____, *or* BOOK___, PAGE ____,]. THE ENVIRONMENTAL COVENANT CONTAINS THE FOLLOWING ACTIVITY AND USE LIMITATIONS:

Owner shall notify the Ohio State Fire Marshal within thirty (30) days after each conveyance of an interest in any portion of the Property. Owner's notice shall include the name, address, and telephone number of the Transferee, a copy of the deed or other documentation evidencing the conveyance, and a survey map that shows the boundaries of the property being transferred.

10. **Compliance Reporting.** Owner(s) or any Transferee shall submit to the Ohio State Fire Marshal, every three years, written documentation verifying that the activity and use limitations remain in place and are being complied with.

11. **Non-complying Use.** If the Property or any portion of the Property is put to a use that does not comply with this Environmental Covenant, then the No Further Action (NFA) status issued for the Property by the Ohio State Fire Marshal, pursuant to Chapter 3737 of the Ohio Revised Code and the regulations promulgated thereunder, is void on and after the date of the commencement of such non-complying use.

12. **Representations and Warranties.** Owner(s) hereby represents and warrants to the other signatories hereto that Owner has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder; that the Owner holds fee simple title which is free, clear and unencumbered; that the Owner has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Owner's intention to enter into this Environmental Covenant; that this Environmental Covenant will not materially

violate or contravene or constitute a material default under any other agreement, document or instrument to which Owner is a party of by which Owner may be bound or affected.

13. **Amendment or Termination.** This Environmental Covenant may be amended or terminated by consent of all of the following: the Owner or a Transferee; and the Ohio State Fire Marshal,[1] pursuant to ORC § 5301.90 and other applicable law. The term, "Amendment," as used in this Environmental Covenant, shall mean any changes to the Environmental Covenant, including the activity and use limitations set forth herein, or the elimination of one or more activity and use limitations when there is at least one limitation remaining. The term, "Termination," as used in this Environmental Covenant, shall mean the elimination of all activity and use limitations set forth herein and all other obligations under this Environmental Covenant.

This Environmental Covenant may be amended or terminated only by a written instrument duly executed by the Ohio State Fire Marshal and the Owner or Transferee of the Property or portion thereof, as applicable. Within thirty (30) days of signature by all requisite parties on any amendment or termination of this Environmental Covenant, the Owner or Transferee shall file such instrument for recording with the Wood County Recorder's Office, and shall provide a file- and date-stamped copy of the recorded instrument to Ohio State Fire Marshal.

14. **Severability.** If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

15. **Governing Law.** This Environmental Covenant shall be governed by and interpreted in accordance with the laws of the State of Ohio.

16. **Recordation.** Within thirty (30) days after the date of the final required signature upon this Environmental Covenant, Owner shall file this Environmental Covenant for recording, in the same manner as a deed to the Property, with the Wood County Recorder's Office.

17. **Effective Date.** The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded as a deed record for the Property with the WoodCounty Recorder.

18. **Distribution of Environmental Covenant.** The Owner shall distribute a file- and date-stamped copy of the recorded Environmental Covenant to the Ohio State Fire Marshal; the City of Rossford and Wood County.

19. **Notice.** Any document or communication required by this Environmental Covenant shall be submitted to:

Bureau of Underground Storage Tank Regulations ("BUSTR")
Enforcement Section
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, OH 43068

[1] *See ORC § 5301.82 (B) (3), which allow for "limitations on amendment or termination."*

The undersigned Representative for Owner represents and certifies that he is authorized to execute this Environmental Covenant.

IT IS SO AGREED:

That the Property Owner, Speedway SuperAmerica LLC, has made and executed this Environmental Covenant on this _____ day of _____, 2006

Signature:_____

Printed Name: J. Mitchell Oliver_
Title: Manager, Corporate Environmental

State of Ohio:

: ss

County of

The foregoing instrument was acknowledged before me this _____ day of _____, 2006, by J. Mitchell Oliver, Manager, Corporate Environmental, of Speedway SuperAmerica LLC, a Delaware Limited Liability Company, on behalf of the Company.

_____
Notary Public, State of Ohio
My commission expires:_____

This instrument prepared by: _____

Jose Luis Gonzalez, Jr.
Speedway SuperAmerica LLC
500 Speedway Drive
Enon, Ohio 45323

STATE FIRE MARSHAL OF OHIO

Stephen Woltz
State Fire Marshal of Ohio

_____
Date

State of Ohio

: ss

County of_____

Before me, a notary public, in and for said county and state, personally appeared Stephen Woltz, the State Fire Marshal of Ohio, who acknowledged to me that he did execute the foregoing instrument on behalf of the State of Ohio, Department of the State Fire Marshal.

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this _____ day of ___, 2006.

_____
Notary Public

APPENDIX D

PROPOSED COSTS FOR TIER 3 PLAN

Cost Estimate

SSA Store# 3642 Rossford Summary of work: Well development, quarterly groundwater sampling of 10 wells, 3 monitoring reports, and preparation of a Tier 3 Evaluation Report. Includes lab services and drum disposal services.		PROJECT TOTALS		TASK 1 Well Development and Groundwater Sampling (4 quarters - 10 wells)		TASK 2 Groundwater Monitoring Reports (3)		TASK 3 Tier 3 Evaluation		TASK 4			
LABOR	**RATE**	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount			Hrs	Amount
Principal	$90	1	$90	0	$0	0	$0	1	$90	0	$0	0	$0
Senior Project Manager	$90	5	$450	0	$0	3	$270	2	$180	0	$0	0	$0
Project Manager	$82	10	$820	8	$656	0	$0	2	$164	0	$0	0	$0
Engineer/Scientist (Hydro)	$75	56	$4,200	0	$0	6	$450	50	$3,750	0	$0	0	$0
Geologist	$65	12	$780	2	$130	6	$390	4	$260	0	$0	0	$0
Junior Geologist	$60	28	$1,680	0	$0	24	$1,440	4	$240	0	$0	0	$0
Project Manager Assistant	$55	10	$550	4	$220	3	$165	3	$165	0	$0	0	$0
Technician	$50	50	$2,500	50	$2,500	0	$0	0	$0	0	$0	0	$0
Drafting	$48	12	$576	0	$0	6	$288	6	$288	0	$0	0	$0
TOTAL LABOR		184	$11,646	64	$3,506	48	$3,003	72	$5,137		$0	0	$0
TOTAL SUBCONTRACTORS			$800		$800		$0		$0		$0		$0
TOTAL LABORATORY			$4,004		$4,004		$0		$0		$0		$0
TOTAL EXPENSES			$1,620		$1,620		$0		$0		$0		$0
TOTAL ESTIMATED COSTS			**$18,070**		$9,930		$3,003		$5,137		$0		$0

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 Well Development and Groundwater Sampling (4 quarters - 10 wells)		TASK 2 Groundwater Monitoring Reports (3)		TASK 3 Tier 3 Evaluation		TASK 4			
SUBCONTRACTORS	**RATE**	Units	Amount	Units	Amount	Units	Amount	Units	Amount			Units	Amount
Drum Removal	$100	8	$800	8	$800	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
			$0	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL SUBCONTRACTORS			**$800**		**$800**		**$0**		**$0**				**$0**
LABORATORY													
Water - BTEX & MTBE 8260B	$77	52	$4,004	52	$4,004	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
		0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL LABORATORY COSTS			**$4,004**		**$4,004**		**$0**		**$0**				**$0**
EXPENSES													
Mileage	$0.40	1150	$460	1150	$460	0	$0	0	$0	0	$0	0	$0
Lodging	$75.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Meals	$25.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Health & Safety Kit	$10.00	5	$50	5	$50	0	$0	0	$0	0	$0	0	$0
Misc. Expenses (gloves, Shipping, Etc.)	$50.00	5	$250	5	$250	0	$0	0	$0	0	$0	0	$0
PID	$65.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Water Level Ind	$25.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Interface probe	$50.00	5	$250	5	$250	0	$0	0	$0	0	$0	0	$0
pH meter/conductivity meter	$10.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
GPS Unit	$75.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Data Logger	$125.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Survey Equipment	$100.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Disposable Bailers	$8.00	40	$320	40	$320	0	$0	0	$0	0	$0	0	$0
Rope	$10.00	5	$50	5	$50	0	$0	0	$0	0	$0	0	$0
Digital Camera	$10.00	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Drum	$30.00	8	$240	8	$240	0	$0	0	$0	0	$0	0	$0
TOTAL EXPENSES			**$1,620**		$1,620		$0		$0		$0		$0

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

MONITORING PLAN COMPLETION REPORT

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Timothy Wilfong
Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Travis S. Bukach
Project Manager

Mark Samblanet
Senior Project Manager

9 November 2007

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1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct the third and final groundwater sampling event (in accordance with the site-specific Groundwater Monitoring Plan outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006) at SSA Store #3642 located at 939 Dixie Highway in Rossford, Wood County, Ohio (**Figures 1 & 2**). The following report summarizes the results of the monitoring plan activities.

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

The Bureau of Underground Storage Tank Regulations (BUSTR) issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern (COCs) are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

3.0 SAMPLING METHODOLOGY AND RESULTS

3.1 Groundwater Monitoring and Sampling

On 2 October 2007, depth to fluid measurements and groundwater samples were collected from monitoring wells MW-1 through MW-10. Depth to fluid measurements were collected with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**).

Based on the measured groundwater elevations, groundwater movement across the site is to the west-northwest (**Figure 3**). Clean, latex gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination.

Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The bailers were decontaminated after use in each well by scrubbing with an Alconox™ and water solution, rinsing with de-ionized water, followed by a final rinse with de-ionized water. The wells were then allowed to recharge before water samples were collected.

Water samples were collected with dedicated disposable bailers, and divided between two laboratory-supplied 40-milliliter vials. A trip blank and duplicate samples (MW-5) were also submitted. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Pace Analytical located in Green Bay, WI and analyzed for BTEX and MTBE by United States Environmental Protection Agency (U.S. EPA) Method 8260B. The results of the laboratory analyses have been summarized in **Table 3** and are illustrated on **Figure 4**. The complete laboratory report has been included in **Appendix A**.

3.2 Analytical Results

Results of the three quarters of groundwater sampling conducted in accordance with the December 2006 Groundwater Monitoring Plan indicate the following:

- Groundwater analytical results obtained from monitoring wells MW-1, MW-2, MW-3, MW-6, MW-7, and MW-9 continue to demonstrate BTEX and MTBE concentrations below laboratory method detection limits. Groundwater collected from MW-8 on 2 October 2007 indicated a minor detection (0.0017 ppm) for MTBE.
- MTBE concentrations detected in MW-4 and MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs). Additionally, MTBE concentrations have increased in excess of the Tier 2 SSTL in monitoring well MW-10.
- Measurable free product (0.03 feet) was observed in monitoring well MW-4 on 7 June 2007; subsequently, MW-4 was not sampled during the second groundwater sampling event. Furthermore, analytical results obtained from samples collected from MW-4 on 27 July 2007 and 2 October 2007 demonstrate stable to slightly increasing concentrations for BTEX and MTBE constituents.
- BTEX and MTBE concentrations have generally increased over time in monitoring wells MW-4, MW-5, and MW-10.

Historical soil analytical results have been included as **Tables 1 and 2** for reference.

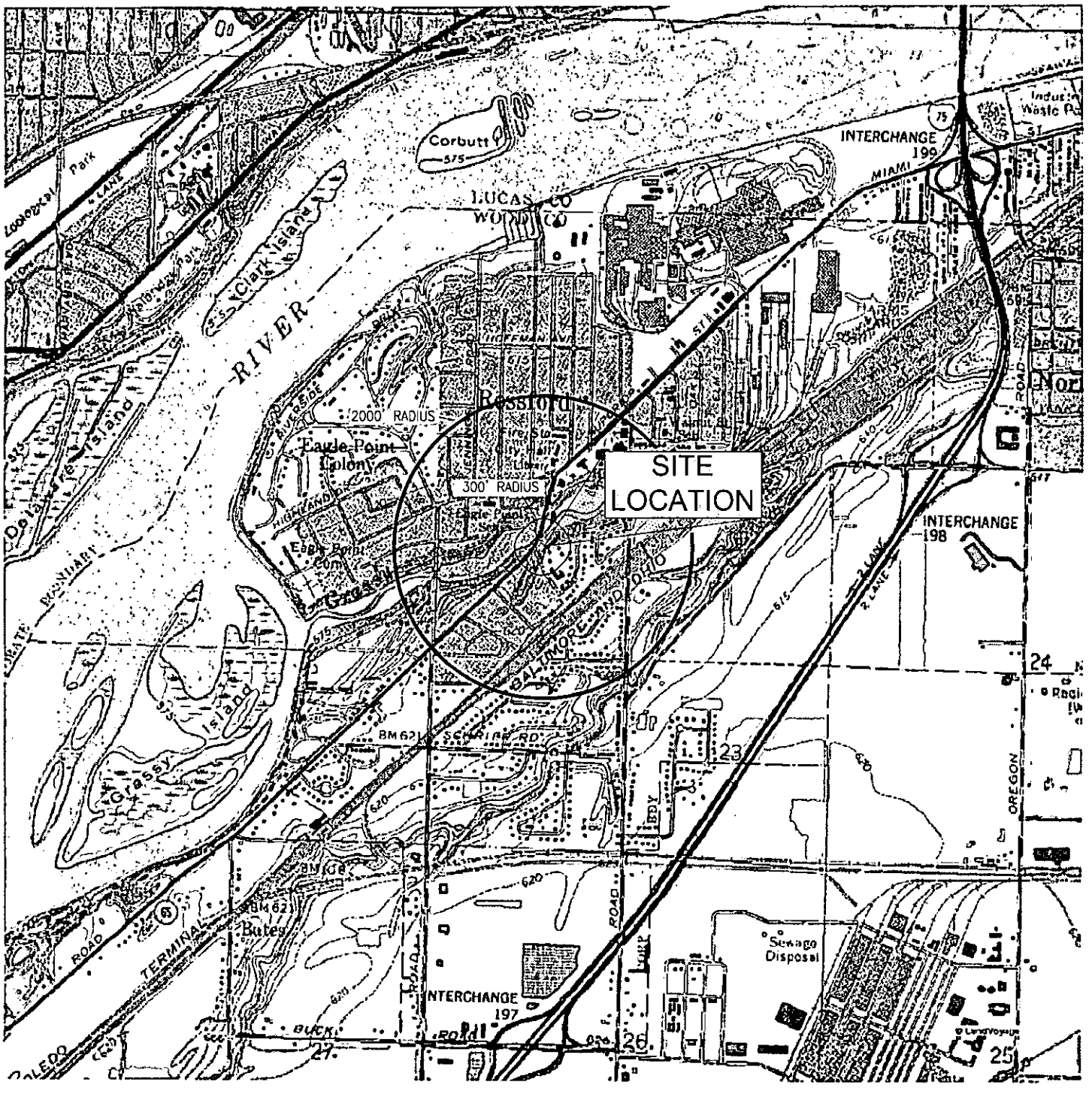
4.0 CONCLUSIONS

This completes the three quarters of groundwater monitoring conducted in accordance with the December 2006 Tier 3 work plan. The additional groundwater monitoring was conducted to demonstrate that MTBE concentrations have stabilized or are decreasing over-time; however, results of the additional sampling has demonstrated that concentrations of BTEX and MTBE are increasing and possibly migrating from the source area as evidenced by the increase in chemicals of concern concentrations in

MW-10. Consequently, a Tier 3 Evaluation cannot be conducted to address the MTBE impact at the site because a site specific degradation rate for MTBE cannot be calculated due to the increasing concentrations. Based on these findings, ATC recommends that a Remedial Action Plan (RAP) be developed which will effectively reduce MTBE concentrations to below the Tier 2 SSTL and prevent possible offsite migration.

5.0 ENVIRONMENTAL COVENANT

On 12 December 2006, a draft of the proposed environmental covenant for the site was submitted to BUSTR as an attachment to the *Tier 2 Addendum #2 / Tier 3 Plan* dated December 2006. To date, no response has been received from BUSTR to indicate that the draft language has been approved. A copy of the draft covenant has been included in **Appendix C** for BUSTR review and approval.



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

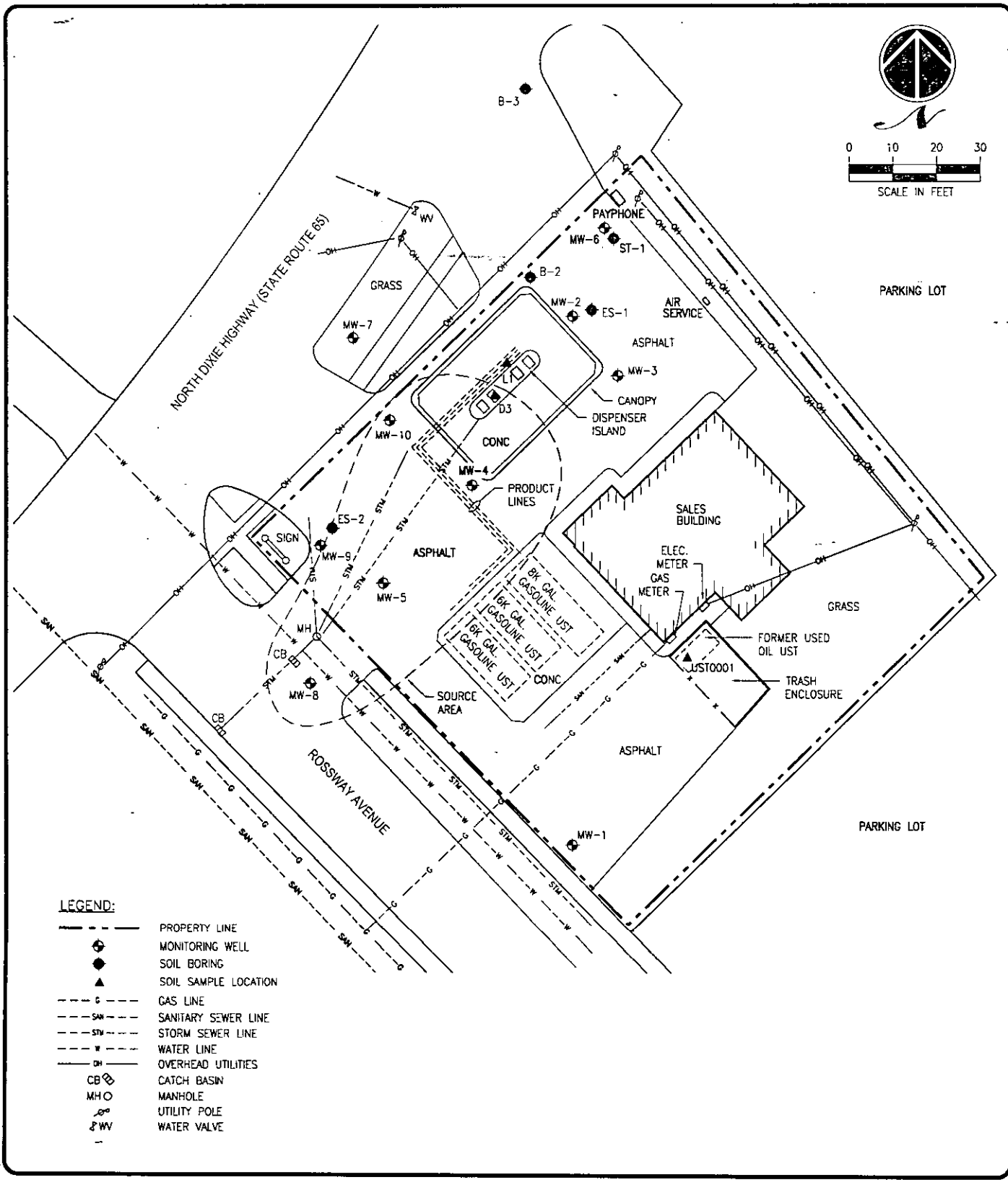
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 11/10/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: SK	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



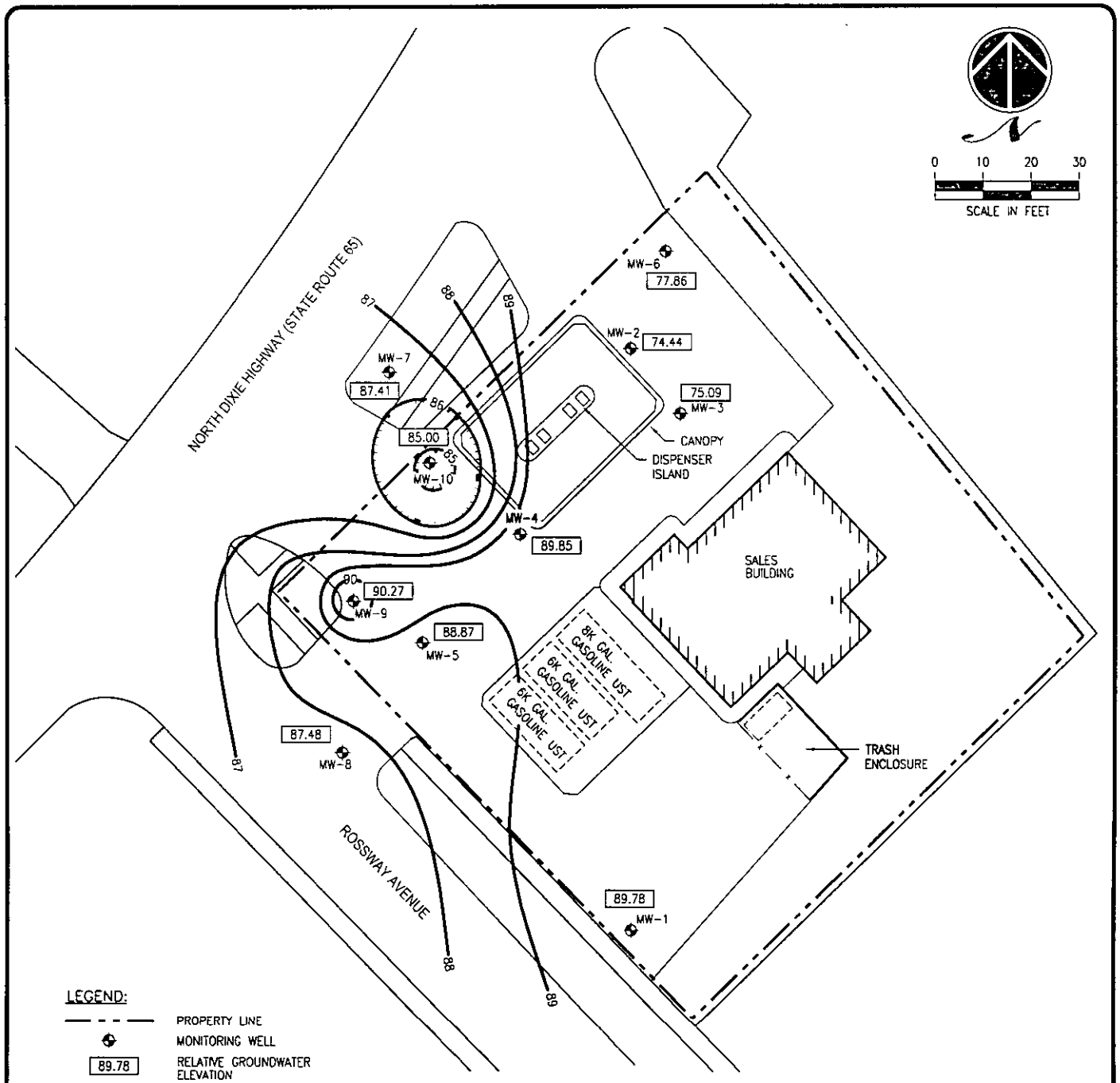
...SSA3642-01.dwg 11/10/05

VATC ASSOCIATES INC.

DATE: 12/7/06	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: SK	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



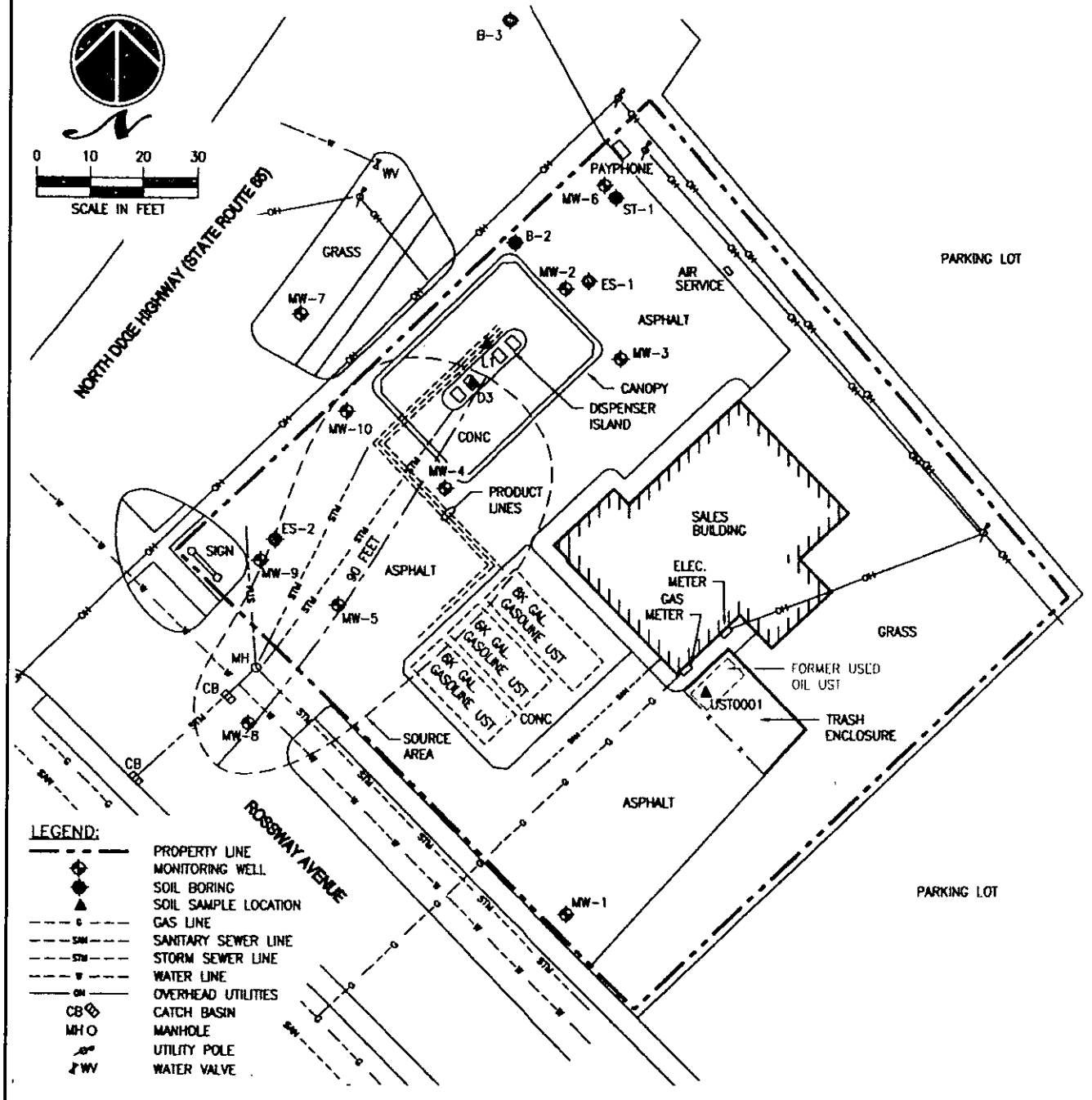
...SSA3642-01.dwg 11/10/06

VATC ASSOCIATES INC.

DATE: 11/9/07	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 3

POTENTIOMETRIC SURFACE MAP
2 OCTOBER 2007

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-07	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-08	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	1.700
Action Levels		5.000	1000.000	700.000	10000.000	40.000
TRIP BLANK	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
Action Levels		10000.000	1000.000	10000.000	100000.000	40.000
MW-01	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-02	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-03	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-04	10/02/07	2200.000	< 50.000	1900.000	9200.000	1900.000
MW-05	10/02/07	< 25.000	< 25.000	< 25.000	< 75.000	1400.000
MW-06	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-09	10/02/07	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-10	10/02/07	460.000	< 10.000	31.000	< 30.000	77.000

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-EIMS - Tuesday, October 30, 2007

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.005	< 0.005	0.017	< 0.005
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.025	< 0.100	0.840	5.100	< 0.250

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	08/03/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	10/11/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	02/21/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								TRIP BLANK	06/07/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								TRIP BLANK	10/02/2007	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
								MW-01	06/07/2007	12:30	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 50.000	1900.000	9200.000	**1900.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 10.000	< 10.000	< 10.000	< 10.000	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 5.000	< 5.000	< 5.000	< 5.000	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 5.000	< 5.000	< 5.000	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75			MW-05	06/07/2007	12:10	< 2.000	< 5.000	< 5.000	< 5.000	**1060.000**
	10/02/2007	08:15	97.91	88.87	9.04			MW-05	10/02/2007	08:15	< 25.000	< 25.000	< 25.000	< 75.000	**1400.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 15.000
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 1.000	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 5.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 10.000	31.000	< 30.000	**77.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 1.000	< 1.000	< 1.000	< 3.000	< 1.000
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 5.000	< 5.000	< 5.000	< 5.000	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 1.000	< 1.000	< 1.000	< 3.000	< 5.000
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 1.000	< 1.000	< 1.000	< 3.000	1.700
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

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2007 NOV 13 PM 1:17
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APPENDIX A

GROUNDWATER ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 889343

Client: SSA-ATC-BRECKSVILLE

Lab Contact: Laurie Woelfel

Project Name: 003642

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
889343-001	Duplicate	WATER	10/02/07 00:00
889343-002	TRIP BLANK	WATER	10/02/07 00:00
889343-003	MW-01	WATER	10/02/07 07:10
889343-004	MW-03	WATER	10/02/07 07:20
889343-005	MW-02	WATER	10/02/07 07:30
889343-006	MW-06	WATER	10/02/07 07:40
889343-007	MW-07	WATER	10/02/07 07:45
889343-008	MW-10	WATER	10/02/07 07:50
889343-009	MW-09	WATER	10/02/07 08:00
889343-010	MW-08	WATER	10/02/07 08:10
889343-011	MW-05	WATER	10/02/07 08:15
889343-012	MW-04	WATER	10/02/07 08:20

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

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ACCREDITED IN ACCORDANCE WITH nelac

Laurie Woelfel
Approval Signature

10/11/07
Date

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : Duplicate

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-001

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 4:18 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1400	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Toluene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	60	60	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	68	64	132	20	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73	127	20	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	20	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-002

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 10:51 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Surrogate		**LCL UCL**						
4-Bromofluorobenzene	71	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	88	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-01

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-003

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 10:27 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Surrogate		LCL UCL						
4-Bromofluorobenzene	71	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-03

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-004

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 11:14 AM **Anl By:** JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B SW846 8260B
Toluene-d8	87	73	127	1	%		10/09/07	SW846 5030B SW846 8260B
Dibromofluoromethane	95	68	122	1	%		10/09/07	SW846 5030B SW846 8260B

Pace Analytical Services, Inc.

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Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-02

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-005

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 11:38 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Surrogate		LCL UCL						
4-Bromofluorobenzene	70	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	84	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-06

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-006

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 12:01 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	69	64	132	1	%	10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73	127	1	%	10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68	122	1	%	10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-07

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-007

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 12:24 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	71	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-10

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-008

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 3:55 PM **Anl By:** JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	460	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Ethylbenzene	31	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	77	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Toluene	< 10	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 30	30	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	73	64	132	10	%		10/09/07	SW846 5030B SW846 8260B
Toluene-d8	85	73	127	10	%		10/09/07	SW846 5030B SW846 8260B
Dibromofluoromethane	96	68	122	10	%		10/09/07	SW846 5030B SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-09

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-009

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 12:48 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL UCL**						
4-Bromofluorobenzene	70	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	85	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	99	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-08

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-010

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 1:11 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	1.7	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	100	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-05

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-011

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 7:10 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1400	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Toluene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	75	75	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	72	64	132	25	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	25	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68	122	25	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-04

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-012

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 4:41 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene		2200	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Ethylbenzene		1900	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1900	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Toluene	<	50	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Xylene, Total		9200	150	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	81	64	132	50	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	89	73	127	50	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	89	68	122	50	%		10/09/07	SW846 5030B	SW846 8260B

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	889343-001	889343-002	889343-003	889343-004	889343-005	889343-006	889343-007	889343-008	889343-009	889343-010	889343-011	889343-012
BTEX + MTBE, TOTAL XYLENES	G	G	G	G	G	G	G	G	G	G	G	G

Code	OH Certification
G	Not Certified

Sample Condition Upon Receipt

Pace Analytical

Client Name: ATC ASSOC Project # 889343

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7997 2830 3780

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: 10/5/07 KBC 10/5/07

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 5DAY TAT
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 10/8/07

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00012586

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Timothy Wilfong
PHONE #: 937-863-7862 FAX #: 937-863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: Pace Analytical Services
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Derek Egli
SHIPPED VIA: FedExp
TRACKING #:

889343

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	Duplicate	10/02/2007 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	2-40 mL
002	TRIP BLANK	10/02/2007 12:00am	W	1	VOA	HCL	BTEX/MTBE 8260B	1-40 mL
003	MW-01	10/02/2007 07:10am	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40 mL
004	MW-03	10/02/2007 07:20am	W	3	VOA	HCL	BTEX/MTBE 8260B	
005	MW-02	10/02/2007 07:30am	W	3	VOA	HCL	BTEX/MTBE 8260B	
006	MW-06	10/02/2007 07:40am	W	3	VOA	HCL	BTEX/MTBE 8260B	
007	MW-07	10/02/2007 07:45am	W	3	VOA	HCL	BTEX/MTBE 8260B	
008	MW-10	10/02/2007 07:50am	W	3	VOA	HCL	BTEX/MTBE 8260B	
009	MW-09	10/02/2007 08:00am	W	3	VOA	HCL	BTEX/MTBE 8260B	
010	MW-08	10/02/2007 08:10am	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date 10/4/07	Time 1200	Received by laboratory: FED EX	Date	Time
Special Reporting Requirements: Job#08.75116.0340 PO#07-08-0203			Lab Notes:	Temp 2.0°C	

FED EX 10/5 1020 KQ Anchorage 10/5 1020

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00012586

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642		
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Timothy Wilfong		
PHONE #:	937-863-7862	FAX #:	937-863-6078
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services
CONSULTANT:	ATC ASSOCIATES INC
PROJECT MGR:	Travis Bukach ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Derek Egli
SHIPPED VIA:	FedExp
TRACKING #:	

889343

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
011	MW-05	10/02/2007 08:15am	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40 mL ↓
012	MW-04	10/02/2007 08:20am	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by: FED EX	Date	Time
Relinquished by: FED EX	Date 10/5	Time 1020	Received by laboratory: KJ Richard	Date 10/5	Time 1020
Special Reporting Requirements: Job#08.75116.0340 PO#07-08-0203			Lab Notes:	Temp 2.0°C	

APPENDIX B

PURGE LOG

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0340	Date	10/02/07

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.02	NA	22.88	3.7	11.2	Purged Dry	7:10	
MW-2	2	39.65	22.75	NA	16.9	2.8	8.3	Purged Dry	7:30	
MW-3	2	40.5	23.35	NA	17.15	2.8	8.4	Purged Dry	7:20	
MW-4	2	15.7	8.13	NA	7.57	1.2	3.7	3.7	8:20	
MW-5	2	31	9.04	NA	21.96	3.6	10.7	10.7	8:15	duplicate
MW-6	2	37.6	18.84	NA	18.76	3.1	9.2	Purged Dry	7:40	
MW-7	2	18.7	8.29	NA	10.41	1.7	5.1	5	7:45	
MW-8	2	15	11.3	NA	3.7	0.6	1.8	1.8	8:10	
MW-9	2	14.3	6.82	NA	7.48	1.2	3.7	3	8:00	
MW-10	2	21.6	11.52	NA	10.08	1.6	4.9	4	7:50	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

APPENDIX C

DRAFT ENVIRONMENTAL COVENANT

Document Number | **ENVIRONMENTAL COVENANT**

In Re: 939 Dixie Highway, Rossford, Ohio 43460:

See attached legal description

Real Estate Department
539 S. Main Street, Findlay, OH 45840

Parcel Identification Number PIN

STATE OF OHIO)
) ss:
COUNTY OF WOOD)

This Environmental Covenant is entered into by Speedway SuperAmerica LLC and the Ohio State Fire Marshal pursuant to Ohio Revised Code ("ORC") §§ 5301.80 to 5301.92 for the purpose of subjecting the Property to the activity and use limitations set forth herein.

The Property Owner is responsible for performing corrective action pursuant to the requirements of the State of Ohio's underground storage tank laws ("UST Laws"), under sections 3737.88, 3737.882 and 3737.89 of the Ohio Revised Code ("ORC") and the regulations promulgated thereunder, as administered by the Ohio Department of Commerce, Division of the State Fire Marshal, Bureau of Underground Storage Tank Regulations ("BUSTR"), to address certain petroleum contamination that resulted from Property Owner's operations at the Property BUSTR Release Number #87000087-N00002;

The Property is currently under corrective actions (OAC 1301-7-9-13) for BUSTR Release #87000087-N00002. The chemicals of concern are those associated with BUSTR Analytical Group 1: benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE). The site is currently classified as a Tier 2 site to facilitate the development of risk-based, site specific target levels.

All administrative records regarding the petroleum release and corrective action process, pursuant to chapter 3737 of the Ohio Revised Code, that occurred at the Property that is the subject of this Environmental Covenant may be obtained through a public records request by requesting information on Speedway SuperAmerica LLC Store #3642 under BUSTR Release Number #87000087-N00002 and contacting:

Bureau of Underground Storage Tank Regulations
Attention: Public Information Clerk
8895 East Main Street
PO Box 687
Reynoldsburg, OH 43068

NOW THEREFORE, Property Owner, for itself and all heirs, successors and assigns in interest, and Ohio State Fire Marshal agree to the following:

1. **Environmental Covenant.** This instrument is an environmental covenant developed and executed pursuant to ORC §§ 5301.80 to 5301.92.

2. **Description of Property.** This Environmental Covenant concerns real property parcels as numbered_herein owned by Speedway SuperAmerica LLC located at 939 Dixie Highway, Rossford, Wood County, Ohio, and more particularly described in Exhibit A attached hereto and hereby incorporated by reference herein ("Property").

3. **Owners.** Speedway SuperAmerica LLC, located at 500 Speedway Drive, Enon, OH 45323 is the property owner of record.

4. **Holders.** The Ohio State Fire Marshal, the Owner(s), whose address is listed above are the Holders of this Environmental Covenant.

5. **Activity and Use Restrictions.** As part of the corrective action at the Subject Property and in consideration for the Ohio State Fire Marshal's forbearance to require unrestricted land use for the Subject Property and to issue a no further action status, Owner hereby imposes and agrees to comply with the following activity and use limitations:

(a) Prohibition Against Extraction of Groundwater. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum in groundwater located at or underlying the Property described herein, no person shall extract the groundwater located at or underlying the Property or any portion thereof for any purpose, potable or otherwise, except for groundwater investigation or remediation.

(b) Land Use Restriction. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum on and underlying the Property described herein, the Property and any portion thereof is hereby restricted to "Non-Residential Land Use" only, as that term is defined in Ohio Administrative Code ("OAC") 1301:7-9-13(C)(17) (effective March 1, 2005).

(c) Prohibition Against Basements. As a portion of the remedy under the State Fire Marshal's BUSTR program to protect against exposure to petroleum on and underlying the Property described herein, no basement or other permanent subsurface or underground structure designed for routine human occupancy shall be constructed at the property.

6. **Running with the Land.** This Environmental Covenant shall be binding upon the Owner and all assigns and successors in interest, including any Transferee, and shall run with the land, pursuant to ORC § 5301.85, subject to amendment or termination as set forth herein. The term "Transferee" as used in this Environmental Covenant, shall mean any future owner of any interest in the Property or any portion thereof, including, but not limited to, owners of an interest in fee simple, mortgagees, easement holders, and/or lessees.

7. **Compliance Enforcement.** Compliance with this Environmental Covenant may be enforced pursuant to ORC § 5301.91. Failure to timely enforce compliance with this Environmental Covenant or the use limitations contained herein by any party shall not bar subsequent enforcement by such party and shall not be deemed a waiver of the party's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict the Ohio State Fire Marshal from exercising any authority under applicable law.

8. **Rights of Access.** Owner(s) hereby grants to Ohio State Fire Marshal, its agents, contractors, employees and the local government including representatives for Wood County and City of Rossford, Ohio the right of access to the Property for implementation or enforcement of this Environmental Covenant.

9. **Notice upon Conveyance.** Each instrument hereafter conveying any interest in the Property or any portion of the Property shall contain a notice of the activity and use limitations set forth in this Environmental Covenant, and provide the recorded location of this Environmental Covenant. The notice shall be substantially in the following form:

> THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL COVENANT, DATED _____, 200__, RECORDED IN THE DEED OR OFFICIAL RECORDS OF THE WOOD COUNTY RECORDER ON _____, 200_, IN [DOCUMENT____, *or* BOOK___, PAGE ____,]. THE ENVIRONMENTAL COVENANT CONTAINS THE FOLLOWING ACTIVITY AND USE LIMITATIONS:

Owner shall notify the Ohio State Fire Marshal within thirty (30) days after each conveyance of an interest in any portion of the Property. Owner's notice shall include the name, address, and telephone number of the Transferee, a copy of the deed or other documentation evidencing the conveyance, and a survey map that shows the boundaries of the property being transferred.

10. **Compliance Reporting.** Owner(s) or any Transferee shall submit to the Ohio State Fire Marshal, every three years, written documentation verifying that the activity and use limitations remain in place and are being complied with.

11. **Non-complying Use.** If the Property or any portion of the Property is put to a use that does not comply with this Environmental Covenant, then the No Further Action (NFA) status issued for the Property by the Ohio State Fire Marshal, pursuant to Chapter 3737 of the Ohio Revised Code and the regulations promulgated thereunder, is void on and after the date of the commencement of such non-complying use.

12. **Representations and Warranties.** Owner(s) hereby represents and warrants to the other signatories hereto that Owner has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder; that the Owner holds fee simple title which is free, clear and unencumbered; that the Owner has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Owner's intention to enter into this Environmental Covenant; that this Environmental Covenant will not materially

violate or contravene or constitute a material default under any other agreement, document or instrument to which Owner is a party of by which Owner may be bound or affected.

13. **Amendment or Termination.** This Environmental Covenant may be amended or terminated by consent of all of the following: the Owner or a Transferee; and the Ohio State Fire Marshal,[1] pursuant to ORC § 5301.90 and other applicable law. The term, "Amendment," as used in this Environmental Covenant, shall mean any changes to the Environmental Covenant, including the activity and use limitations set forth herein, or the elimination of one or more activity and use limitations when there is at least one limitation remaining. The term, "Termination," as used in this Environmental Covenant, shall mean the elimination of all activity and use limitations set forth herein and all other obligations under this Environmental Covenant.

This Environmental Covenant may be amended or terminated only by a written instrument duly executed by the Ohio State Fire Marshal and the Owner or Transferee of the Property or portion thereof, as applicable. Within thirty (30) days of signature by all requisite parties on any amendment or termination of this Environmental Covenant, the Owner or Transferee shall file such instrument for recording with the Wood County Recorder's Office, and shall provide a file- and date-stamped copy of the recorded instrument to Ohio State Fire Marshal.

14. **Severability.** If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

15. **Governing Law.** This Environmental Covenant shall be governed by and interpreted in accordance with the laws of the State of Ohio.

16. **Recordation.** Within thirty (30) days after the date of the final required signature upon this Environmental Covenant, Owner shall file this Environmental Covenant for recording, in the same manner as a deed to the Property, with the Wood County Recorder's Office.

17. **Effective Date.** The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded as a deed record for the Property with the WoodCounty Recorder.

18. **Distribution of Environmental Covenant.** The Owner shall distribute a file- and date-stamped copy of the recorded Environmental Covenant to the Ohio State Fire Marshal; the City of Rossford and Wood County.

19. **Notice.** Any document or communication required by this Environmental Covenant shall be submitted to:

Bureau of Underground Storage Tank Regulations ("BUSTR")
Enforcement Section
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, OH 43068

[1] *See ORC § 5301.82 (B) (3), which allow for "limitations on amendment or termination."*

The undersigned Representative for Owner represents and certifies that he is authorized to execute this Environmental Covenant.

IT IS SO AGREED:

That the Property Owner, Speedway SuperAmerica LLC, has made and executed this Environmental Covenant on this _____ day of _____, 2007

Signature:_____

Printed Name: J. Mitchell Oliver_
Title: Manager, Corporate Environmental

State of Ohio:

: ss

County of

The foregoing instrument was acknowledged before me this _____ day of _____, 2007, by J. Mitchell Oliver, Manager, Corporate Environmental, of Speedway SuperAmerica LLC, a Delaware Limited Liability Company, on behalf of the Company.

_____
Notary Public, State of Ohio
My commission expires:_____

This instrument prepared by: _____

Jose Luis Gonzalez, Jr.
Speedway SuperAmerica LLC
500 Speedway Drive
Enon, Ohio 45323

STATE FIRE MARSHAL OF OHIO

_____ _____

State Fire Marshal of Ohio Date

State of Ohio

: ss

County of_____

Before me, a notary public, in and for said county and state, personally appeared_____, the State Fire Marshal of Ohio, who acknowledged to me that he did execute the foregoing instrument on behalf of the State of Ohio, Department of the State Fire Marshal.

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this _____ day of ___, 2007.

_____

Notary Public

Speedway
SUPERAMERICA

Speedway SuperAmerica LLC
Speedway Office
P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

RECEIVED
2005 AUG 25 PM 3:37
STATE FIRE MARSHAL

19 August 2005 – 7000 0520 0012 4674 9331

Mr. Rick Krueger
Environmental Specialist
Bureau of Underground Storage Tank Regulations
8895 East Main Street
Reynoldsburg, Ohio 43068

RE: Speedway SuperAmerica #3642
939 East River Road
Rossford, Ohio
Lucas County
Release #87000087-N00002
(OAC 1301:7-9-13, March 1999)

Dear Mr. Krueger:

Please find enclosed one copy of the *Additional Information Response Letter Report* as prepared by our consultant, ATC Associates Inc. (ATC). As requested, the groundwater monitoring plan has been extended by three quarters. The first of these events was conducted on 2 June 2005. The results of this sampling event are presented in the enclosed report.

ATC has also conducted an investigation to provide additional information about the exact location and operating status of the potable water well (ODNR Log #362553) shown by the ODNR to be located in the immediate vicinity of SSA #3642. Based on an extensive search, it is believed that the well in question has been abandoned, destroyed, or paved over at some point in the past and is no longer being used for potable water or that the ODNR well log references an incorrect address. In either case, due to the reported depth of casing to 81 feet into limestone bedrock and the suspected location of the well being approximately 100 feet up-gradient (east) from the site, it is unlikely that the residual hydrocarbon impact detected in groundwater would reach the potable water well.

The second of three additional groundwater sampling events will be conducted in September 2005 and a Groundwater Sampling Report will be submitted to update BUSTR on current site conditions. **As a cost savings measure, only the monitoring wells which have historically exhibited chemicals of concern concentrations above laboratory method detection limits will be sampled during the September 2005 event.** If you have any questions, please do not hesitate to contact me at (937) 863-7642.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Keith Hughes
Advanced Environmental Representative

KH/

cc: Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach –Project Manager (ATC)
Remediation File #3642
Reimbursement File #3642

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

10020 Brecksville Road
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19 August 2005

Mr. Keith Hughes
Advanced Environmental Representative
Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, Ohio 45501

RE: **Additional Information Response**
(Response to BUSTR 5 May 2005 Letter)
Speedway SuperAmerica #3642
939 East River Road
Rossford, Ohio
Wood County
Release #87000087-N00002
(OAC 1301:7-9-13, Mar. 1999)

Dear Mr. Hughes:

The following is a response to the Bureau of Underground Storage Tank Regulations (BUSTR) letter dated 16 May 2005 (Attachment A) requesting additional information regarding the June 2003 *Tier 2 Evaluation Report* and approved Groundwater Monitoring Plan for the above referenced site (Figures 1 through 3).

Based on review of the recent quarterly groundwater sampling reports and the *Tier 2 Evaluation Report,* BUSTR has concluded that additional groundwater monitoring is required for the site due to increasing concentrations of benzene and methyl tertiary butyl ether (MTBE) in groundwater. Therefore, BUSTR requested the following additional information in the 16 May 2005 letter:

BUSTR REQUEST #1: *Please continue the groundwater monitoring program approved by BUSTR on January 2004.*

RESPONSE #1: Three additional quarterly groundwater sampling events have been proposed as a continuation of the BUSTR approved site-specific groundwater monitoring plan. The first of these events was conducted on 2 June 2005 by our consultant, ATC Associates Inc. (ATC).

On 2 June 2005, ATC personnel collected depth to fluid measurements and groundwater samples from monitoring wells MW-1 through MW-8. Depth to fluid measurements were collected with an ORS™ oil/water interface probe and referenced to the north side of the manhole covers (Table 3). Based on the measured groundwater elevations, groundwater movement across the site is to the west/southwest (Figure 4). Clean, nitrile gloves were worn between the work conducted at each well to prevent cross-contamination. Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection using dedicated disposable bailers. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The groundwater purging records are included in Attachment B.

Groundwater samples were collected with the dedicated disposable bailers and divided between two laboratory supplied 40-milliliter vials. One trip blank and one duplicate sample were also submitted. The samples were placed on ice in a cooler and transported with chain-of-custody records to Southern Petroleum Laboratories (SPL) in Traverse City, Michigan. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by U.S. EPA Method 8021B. The results of the laboratory analyses have been summarized in Table 3 and illustrated in Figure 5. The complete laboratory report has been included in Attachment B.

Analytical results obtained for the 2 June 2005 sampling event indicate the following:

- Benzene and MTBE concentrations in MW-4 exceed Tier 1 action levels but have decreased when compared to the previous sampling event (16 June 2004).
- Ethylbenzene and xylenes concentrations in MW-4 and MTBE concentrations in MW-5 have increased relative to the previous groundwater sampling event.
- All other analytical results indicate chemicals of concern concentrations below Tier 1 action levels and/or laboratory method detection limits.

Two additional groundwater sampling events are scheduled for September and December 2005. If results of the additional groundwater monitoring shows groundwater concentrations have decreased or have reached steady state conditions, a Tier 2 Verification Report will be prepared to validate the BIOSCREEN model predictions presented in the *Tier 2 Evaluation Report*.

BUSTR REQUEST #2: *Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is in use.*

RESPONSE #2: An ODNR potable water well search conducted for the Tier 2 Evaluation indicated that a potable water well (ODNR log #362553, location #112) is located approximately 100 feet east from SSA #3642 (Attachment C). The address on the well log is 937 Dixie Highway, Rossford, Ohio. According to the log, the well was installed in 1967 and was cased to over 81 feet into limestone bedrock.

ATC personnel conducted a physical search to confirm the location and status of the potable water well on 2 June 2005. However, upon inspection, no properties within 300 feet of the site were associated with the address 937 Dixie Highway. The owners/personnel of the commercial properties in the area where the address would sequentially be expected were asked if they knew of any potable water wells in the area. All indicated that they knew of no potable wells in the immediate vicinity. According to the Wood County Auditor's website, no property with that address exists. A search of historical Sanborn Fire Insurance maps also showed no indication of a property with the address 937 Dixie Highway (Attachment C).

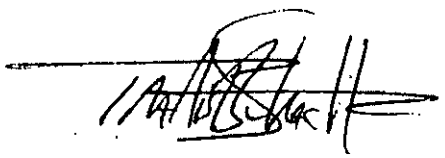
The ODNR well locator map (Attachment C) indicates the location of well #362553 is approximately 100 feet east of SSA #3642. This location corresponds with 943 N. Dixie Highway which is currently a grocery store. An aerial photograph has been included in Attachment C which shows the relative proximity of SSA #3642 and 943 Dixie Highway to the suspected location of the potable water well. Based on site observations and the inspection of the attached aerial photograph, SSA #3642 and the suspected location of the potable water well are surrounded by large paved parking lots.

Letters were submitted to each property located within a 300-foot radius from the site with the inquiry as to whether the properties have or ever had a potable water well on the premises. Four of the nine properties surveyed indicated that no potable water wells exist on their properties (Appendix A). The City of Toledo Water Department has been contacted in regards to the availability of public water to the properties located with a 300-foot radius from the site. To date, no response has been received. Information pertaining to the public water supply will be included in the next quarterly update report.

It is believed that the well in question has been abandoned, destroyed, or paved over at some point in the past and is no longer being used for potable water or that the ODNR well log references an incorrect address. In either case, due to the reported depth of casing to 81 feet into limestone bedrock and the suspected location of the well being approximately 100 feet up-gradient (east) from the site, it is unlikely that the residual hydrocarbon impact detected in groundwater would reach the potable water well.

The second of three additional groundwater sampling events will be conducted in September 2005 and a Groundwater Sampling Report will be submitted to update BUSTR on current site conditions. **As a cost savings measure, only the monitoring wells which have historically exhibited chemicals of concern concentrations above laboratory method detection limits will be sampled during the September 2005 event.** If you have any questions, please do not hesitate to contact me at (440)838-7177.

Very Truly Yours,



Travis S. Bukach
Project Manager

TB/
cc: Mark Samblanet – Senior Project Manager (ATC)

Attachments: BUSTR Correspondence, Laboratory Analytical Report, Potable Water Well Documentation, Tables, Figures

TABLES

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**0.24**	**112**	**131**	**1500**	**0.89**
MW-7 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-7 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**0.24**	**112**	**131**	**1500**	**NA**
D-3 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-1 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-1 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-2 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-1 (4)	L-1 (4)	07/09/1997	00:00	**1.700**	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**0.24**	**112**	**131**	**1500**	**0.89**
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-2 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-2 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-3 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-2 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-2 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-3 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-3 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-4 (7-9)	MW-4 (7-9)	03/07/2002	00:00	**0.400**	0.017	0.140	0.142	0.350
MW-4 (9-11)	MW-4 (9-11)	03/07/2002	00:00	**0.360**	0.021	0.059	0.137	0.210
MW-5 (13-15)	MW-5 (13-15)	03/07/2002	00:00	**1.000**	1.000	2.000	18.700	0.460
MW-5 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-5 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-5 (7-9)	MW-5 (7-9)	03/07/2002	00:00	**0.400**	4.600	8.300	68.000	0.200
MW-5 (9-11)	MW-5 (9-11)	03/07/2002	00:00	**1.300**	7.500	11.000	84.000	< 0.050
MW-6 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-6 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-6 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-8 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-1/MW-1 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-2 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-2 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
B-3 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
D-3 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	380.000	mg/Kg
ES-1 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
ES-1 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	NA	< 5.000	mg/Kg
ES-2 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	NA	260.000	mg/Kg
L-1 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	NA	1000.000	mg/Kg
MW-3 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-3 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-7 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-7 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	NA	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								TRIP BLANK	05/19/2004	00:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
								TRIP BLANK	04/28/2005	12:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - On Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-1								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	06/16/2004	05:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-2								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/16/2004	05:11	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/16/2004	05:06	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4								MW-4	04/11/2002	00:00	**3100.000**	69.000	**2100.000**	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	**120.000**	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	**3600.000**	60.000	**2300.000**	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	**2600.000**	56.000	**1800.000**	7870.000	**850.000**
								MW-4	03/24/2004	05:54	**3000.000**	78.000	**2200.000**	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	**5300.000**	< 100.000	**3600.000**	**15000.000**	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	**4200.000**	< 100.000	**4100.000**	**16000.000**	**2800.000**
MW-5								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 1.000	< 1.000	< 1.000	< 3.000	**990.000**
								MW-5	06/16/2004	05:21	< 10.000	< 10.000	< 10.000	< 10.000	**1200.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-5	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
MW-6								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/16/2004	05:09	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-7								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	06/16/2004	05:15	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 1.000	< 1.000	< 1.000	< 3.000	7.900
								MW-8	06/16/2004	05:18	< 5.000	< 5.000	< 5.000	< 5.000	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 5.000	< 5.000	< 5.000	< 5.000	7.300
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

FIGURES

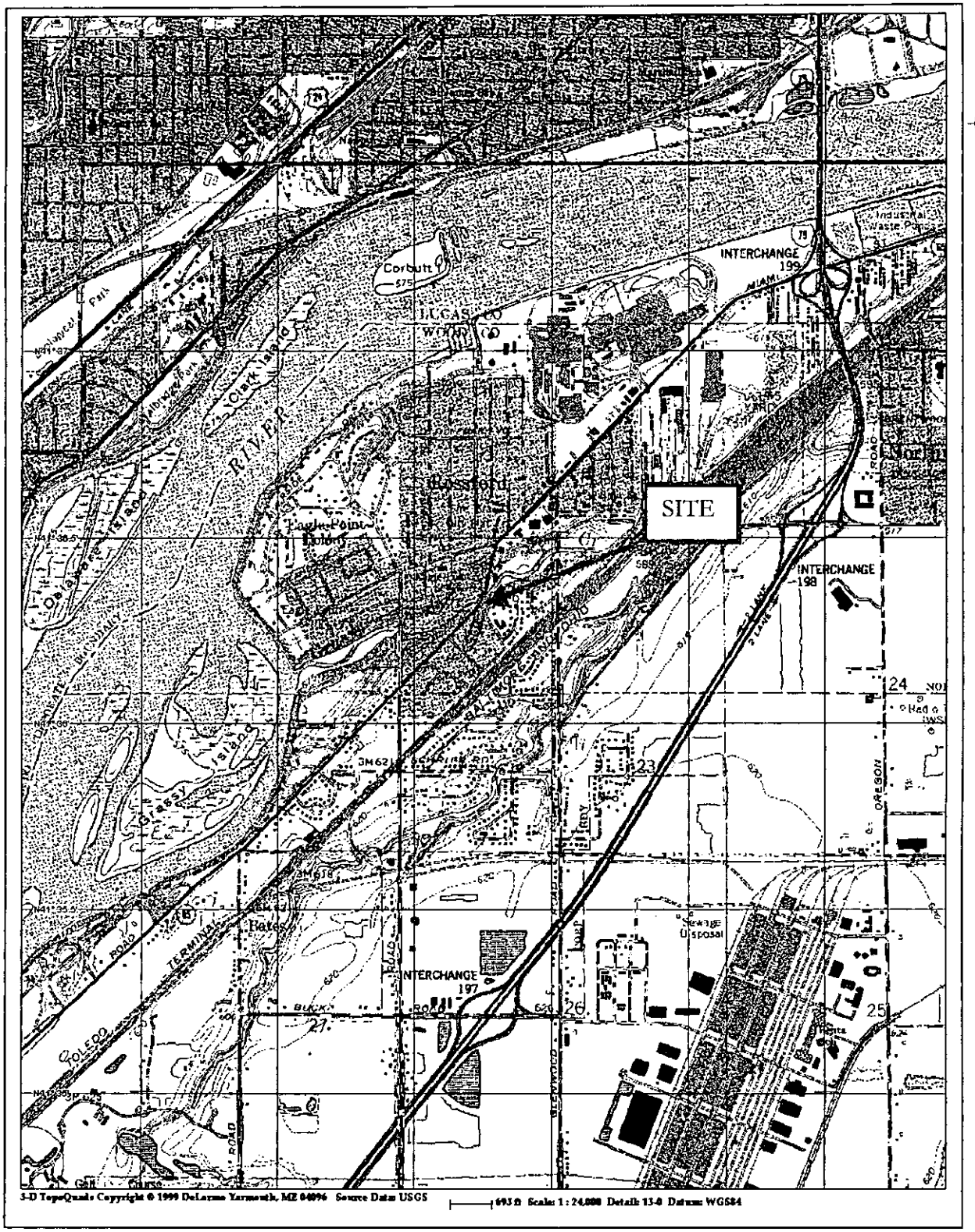
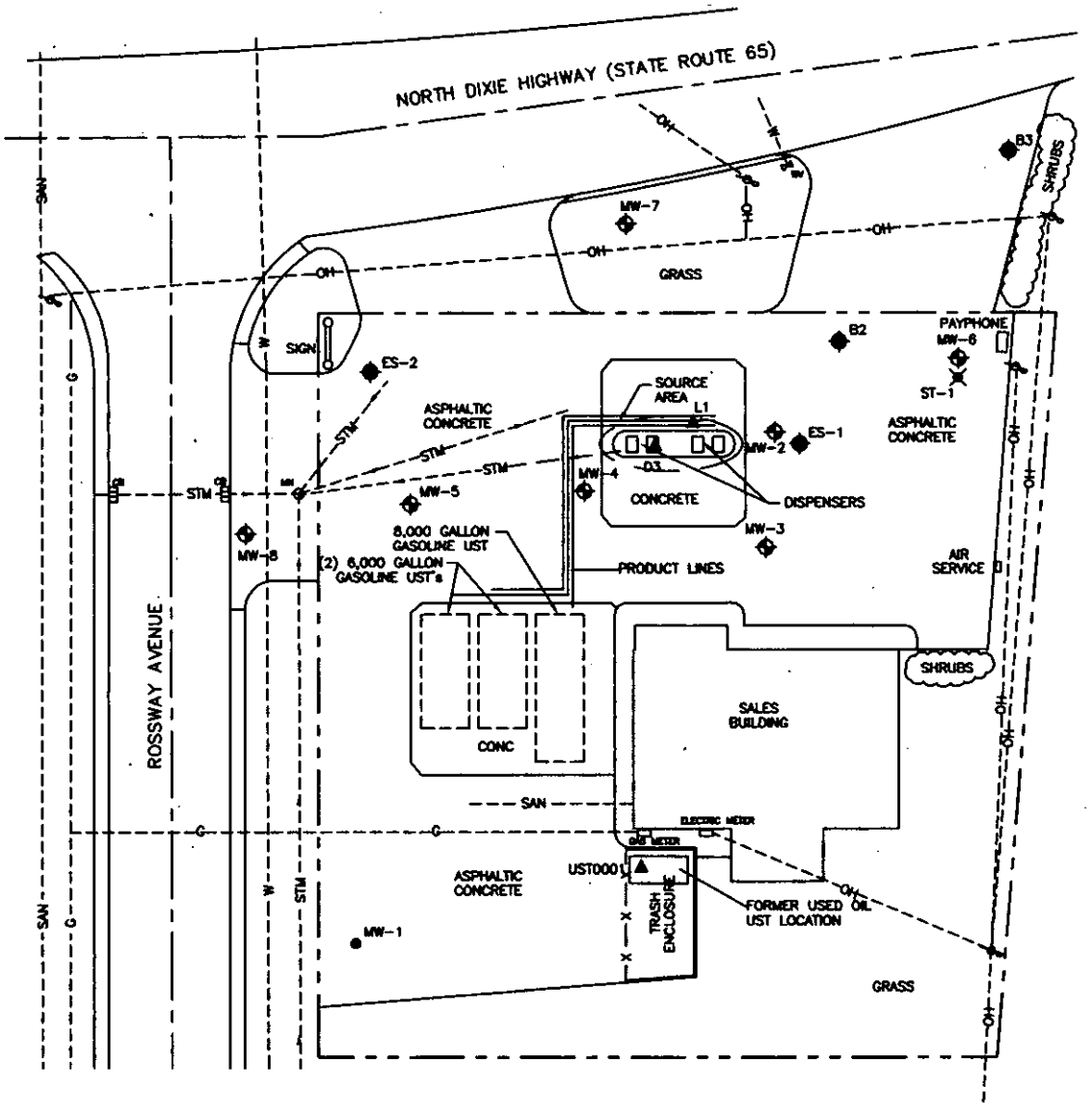


FIGURE 1: SITE VICINITY MAP

SOURCE: USGS 7.5-Minute Topographic Map Springfield Quadrangle 1988 Scale: 1:24,000	ATC ASSOCIATES INC.	**Speedway SuperAmerica LLC** SSA #3642 939 Dixie Highway Rossford, Wood County, Ohio ATC Project No. 08.75116.0057



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

30 15 0 30

SCALE IN FEET

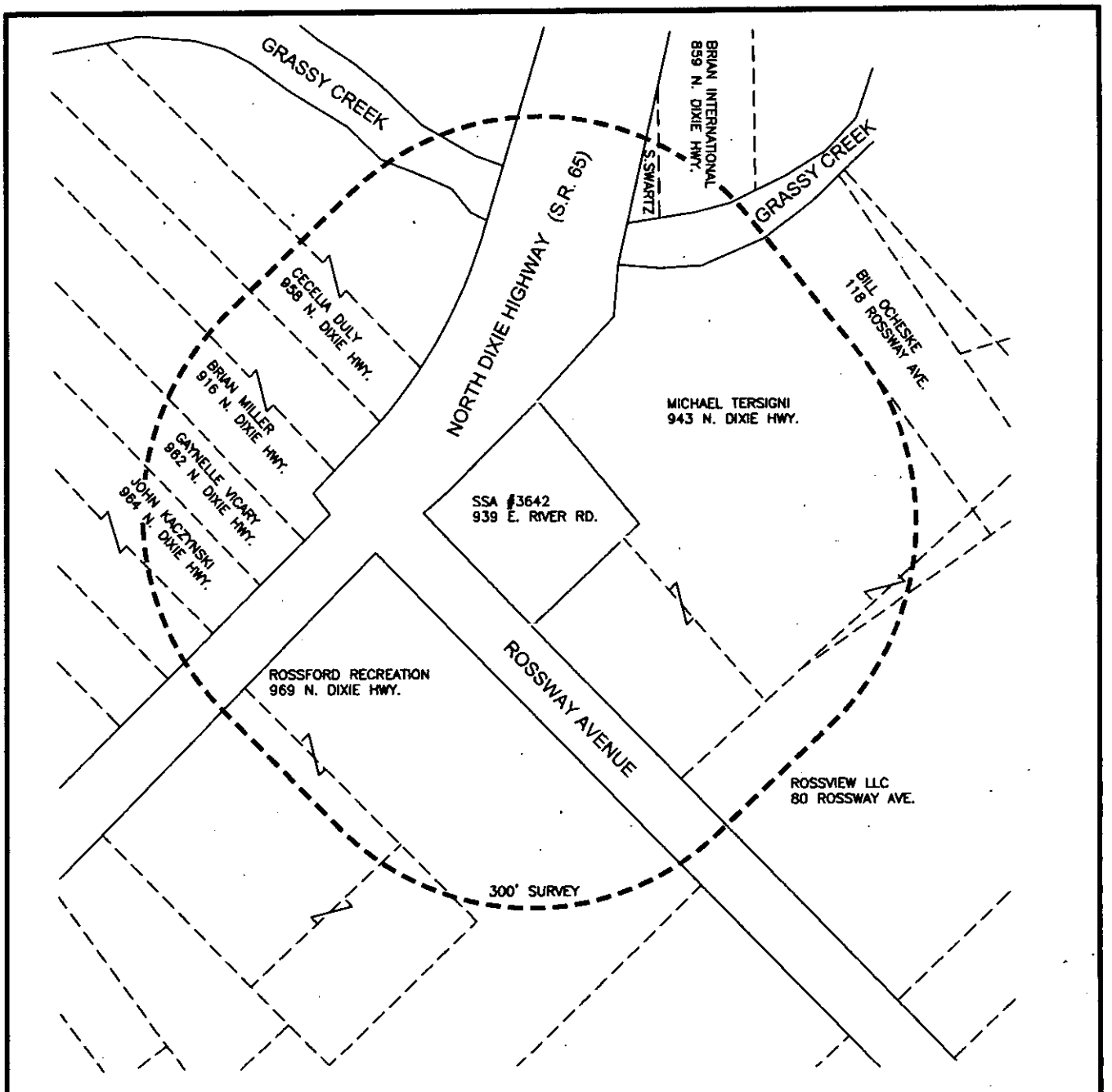
C:\DRAWINGS\SPEEDWAY\3642\SM.DWG

SITE MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057	DATE: 07/29/05
SCALE: 1" = 30'	DRAWN BY: R. Saunders
FIGURE 2	REVIEWED BY: N. Saraceno

VATC ASSOCIATES INC.



OHIO
QUADRANGLE LOCATION
LATITUDE 41° 36' 10"
LONGITUDE 83° 33' 56"

SURROUNDING PROPERTIES MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057

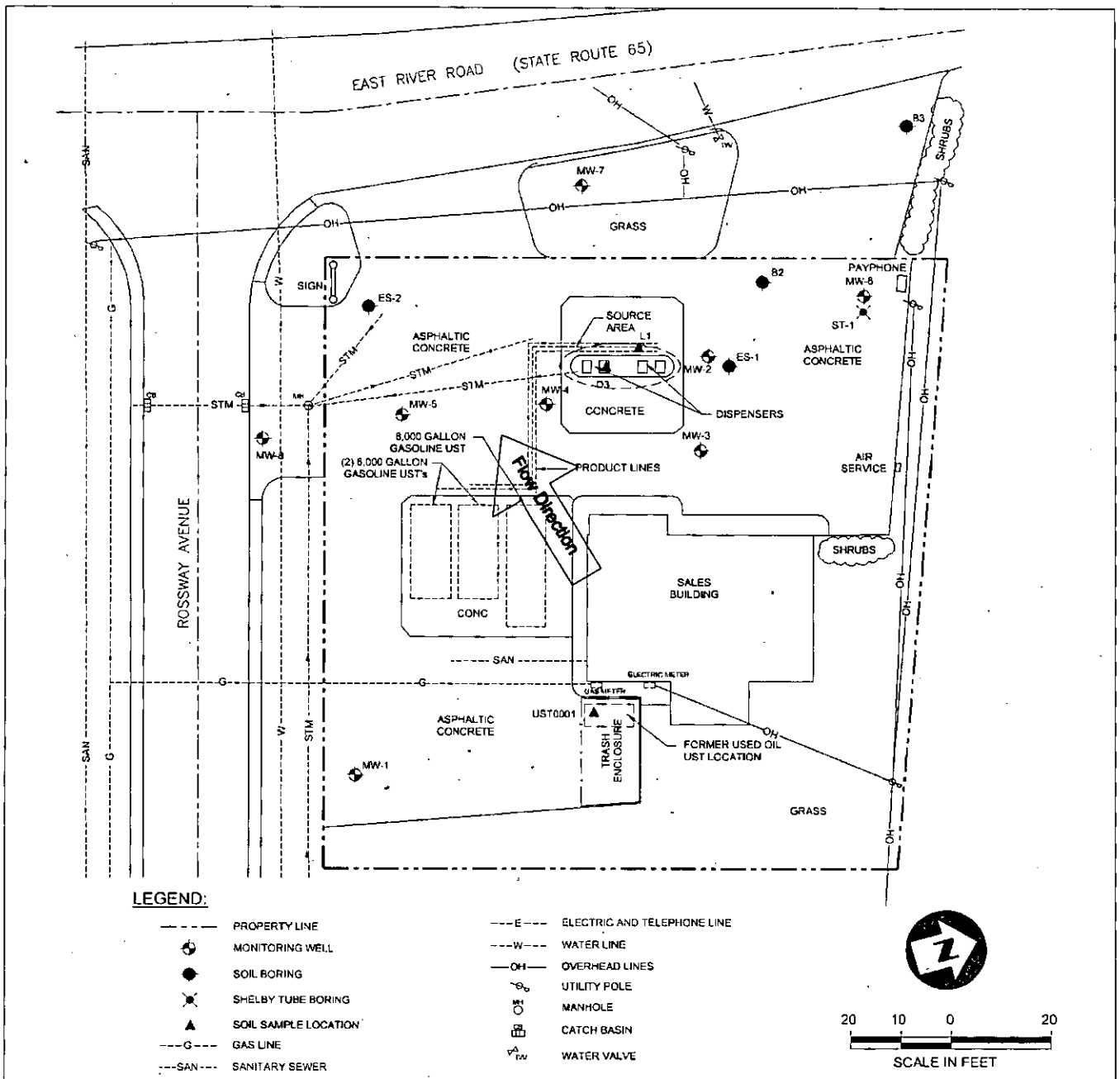
FIGURE 3

ATC ASSOCIATES INC.

Flow Direction Parameters - 06/02/2005

Sample Location	Description	Elevation	Longitude	Latitude
MW-5	WEST SIDE OF PROPERTY	88.91	-83.5625560	41.6051120
MW-7	NORTH OF PROPERTY	87.46	-83.5626500	41.6051790
MW-8	WEST OF PROPERTY	87.48	-83.5626030	41.6050630

North Arrow Angle of Rotation from 0° North: 0°
Flow Direction: 255° (from 0° North)
Flow Gradient: 0.082075 ft/foot



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SHELBY TUBE BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- ELECTRIC AND TELEPHONE LINE
- WATER LINE
- OVERHEAD LINES
- UTILITY POLE
- MANHOLE
- CATCH BASIN
- WATER VALVE

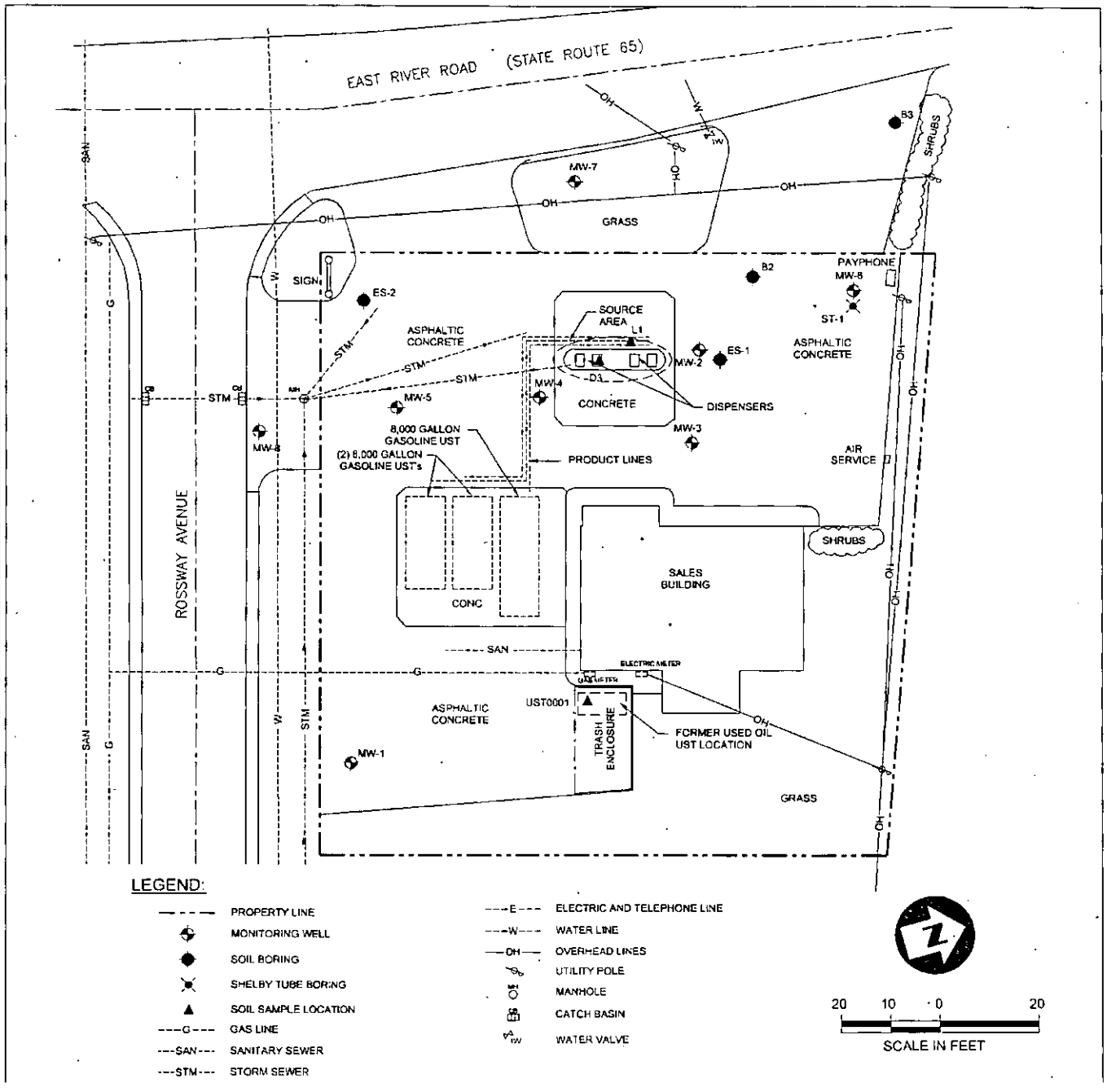
N

20 10 0 20
SCALE IN FEET

BTEX/MTBE
Groundwater Flow Analytical Map

Map by SSA-EIMS - Wednesday, August 03, 2005

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332



Concentrations in PPB

Sample Location	Date	Benzene	Toluene	Ethyl Benzene	Total Xylene	MTBE
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-7	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-8	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	7.300
Action Levels		5.000	1000.000	700.000	10000.000	40.000
MW-1	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-2	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-3	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000
MW-4	06/02/05	**4200.000**	< 100.000	**4100.000**	**16000.000**	**2800.000**
MW-5	06/02/05	< 10.000	< 10.000	< 10.000	12.000	**1520.000**
MW-6	06/02/05	< 5.000	< 5.000	< 5.000	< 5.000	< 5.000

BTEX/MTBE
Groundwater Analytical Map

Map by SSA-EIMS - Wednesday, August 03, 2005

Speedway SuperAmerica LLC
Store #*3642*
939 Dixie Hwy
Rossford,OH 43460-1332

ATTACHMENT A

BUSTR CORRESPONDENCE

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Doug White
Director

May 16, 2005

Received
MAY 18 2005
Environmental
SSA, LLC

BRENT FOOS
ENVIRONMENTAL ENGINEERING
SPEEDWAY\SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE
SPEEDWAY #3642
939 EAST RIVER ROAD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087 N00002

RE: ADDITIONAL INFORMATION REQUESTED

Dear Mr. Foos:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your groundwater monitoring reports dated June 16, 2004 and August 30, 2004 for the site/release listed above. Based on our review, BUSTR had determined that additional groundwater monitoring is necessary due to the recent concentrations of benzene and MTBE. Therefore, BUSTR requests to following:

1. Please continue the groundwater monitoring program approved by BUSTR on January 27, 2004.

2. Appendix A of the Tier 2 Evaluation Report (dated June 2003) identifies ODNR well #112 in the immediate vicinity of this site. Please provide additional information regarding the exact location of this well and whether it is currently in use.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us *or* by calling our office.

Please submit this information to BUSTR within 90 days from the date of this letter.

Thank you for your cooperation. If you have any questions, please contact me at 614-728-5120.

Sincerely,

Rick Krueger
Environmental Specialist

xc: Site File
Travis Bukach - ATC Associates, Brecksville, OH

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

+ GROUNDWATER PURGE RECORDS

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Heather Bennett	Project #	08.75116.0057	Date	06/02/05

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	34	12.1	NA	21.9	3.6	10.7	10.5	10:20	
MW-2	2	40	27.23	NA	12.77	2.1	6.2	6.13	8:41	
MW-3	2	40	27.39	NA	12.61	2.1	6.2	6.05	9:45	
MW-4	2	15	6.26	NA	8.74	1.4	4.3	4.2	9:03	
MW-5	2	30	9	NA	21	3.4	10.3	10.08	9:59	
MW-6	2	37	21.8	NA	15.2	2.5	7.4	7.3	8:37	
MW-7	2	18	8.24	NA	9.76	1.6	4.8	4.68	8:30	
MW-8	2	18	11.3	NA	6.7	1.1	3.3	3.22	10:04	
Duplicate MW-4	2	15	6.26	NA	8.74	1.4	4.3	4.2	9:03	
Trip Blank										

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

MICHIGAN LABORATORY
459 HUGHES DRIVE
TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

LABORATORY REPORT

SPL WORKORDER NUMBER(s): **05-06-100**

Prepared for: **SPEEDWAY SUPERAMERICA LLC.**

Sampled By: ATC ASSOCIATES, INC.

Site: 939 DIXIE HWY, ROSSFORD, OH

Project: 3642 - SPEEDWAY STATION

Approved by:

S. L. Grenda, Laboratory Manager

Date: JUN 14 2005

Gary R. Byar, Project Manager

The results relate only to the samples tested.
All results are reported on an as is (wet) basis, except where otherwise indicated.
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SPL - Louisiana
500 Ambassador Caffery Parkway
Scott, LA 70583
(337) 237-4775
Tony Duhon

SPL - Michigan
459 Hughes Drive
Traverse City, MI 49686
(231) 947-5777

Summary Report 06-13-2005

Company: SPEEDWAY SUPERAMERICA LLC.
Site: 939 DIXIE HWY, ROSSFORD, OH
Project No.:
Project: 3642 - SPEEDWAY STATION

SPL ID MATRIX FLAG	CLIENT ID DATE SAMPLED	BENZENE PQL UNITS	TOLUENE PQL UNITS	ETHYLBEN. PQL UNITS	XYLENES PQL UNITS	TPH-GRO PQL UNITS	TPH-DRO PQL UNITS	TRPH PQL UNITS	OIL&GREASE PQL UNITS	LEAD PQL UNITS	CADMIUM PQL UNITS	CHROMIUM PQL UNITS	MTBE PQL UNITS
0506100-01 WATER	TRIP BLANK 04/28/2005 12:00:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-02 WATER	MW-7 06/02/2005 08:30:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-03 WATER	MW-6 06/02/2005 08:37:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-04 WATER	MW-2 06/02/2005 08:41:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-05 WATER	MW-4 06/02/2005 09:03:00	4200 100 ug/L	ND 100 ug/L	4100 100 ug/L	16000 100 ug/L								2800 300 ug/L
0506100-06 WATER	Duplicate 06/02/2005 09:04:00	3800 100 ug/L	190 100 ug/L	2900 100 ug/L	12000 100 ug/L								2700 300 ug/L
0506100-07 WATER	MW-3 06/02/2005 09:45:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-08 WATER	MW-5 06/02/2005 09:59:00	ND 10 ug/L	ND 10 ug/L	ND 10 ug/L	12 10 ug/L								1520 30 ug/L
0506100-09 WATER	MW-1 06/02/2005 10:02:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								ND 5 ug/L
0506100-10 WATER	MW-8 06/02/2005 10:04:00	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L	ND 5 ug/L								7.3 5 ug/L

ND = Not Detected.
BTEX/MTBE - Method 80218 ***

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PHONE (231) 947-5777
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www.spl-inc.com

Certificate of Analysis No. M1-0506100-01

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: TRIP BLANK

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 04/28/2005 12:00:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	103
4-Bromofluorobenzene	106

Method 8021B ***
Analyzed by: JMG
Date: 06/09/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0506100-02

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-7

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 08:30:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	88
4-Bromofluorobenzene	98

Method 8021B ***
Analyzed by: JMG
Date: 06/09/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0506100-03

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-6

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 08:37:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	106
4-Bromofluorobenzene	113

Method 8021B ***
Analyzed by: JMG
Date: 06/09/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0506100-04

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-2

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 08:41:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	106
4-Bromofluorobenzene	111

Method 8021B ***
Analyzed by: JMG
Date: 06/09/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0506100-05

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.# 00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-4

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 09:03:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2800	300 P	ug/L
BENZENE	4200	100 P	ug/L
TOLUENE	ND	100 P	ug/L
ETHYLBENZENE	4100	100 P	ug/L
TOTAL XYLENE	16000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	112
4-Bromofluorobenzene	112

Method 8021B ***
Analyzed by: JMG
Date: 06/10/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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Certificate of Analysis No. M1-0506100-06

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: Duplicate

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 09:04:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2700	300 P	ug/L
BENZENE	3800	100 P	ug/L
TOLUENE	190	100 P	ug/L
ETHYLBENZENE	2900	100 P	ug/L
TOTAL XYLENE	12000	100 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	96
4-Bromofluorobenzene	109

Method 8021B ***
Analyzed by: JMG
Date: 06/10/2005

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0506100-07

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.# 00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-3

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 09:45:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	107
4-Bromofluorobenzene	114

Method 8021B ***
Analyzed by: JMG
Date: 06/09/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
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TRAVERSE CITY, MICHIGAN 49686
PHONE (231) 947-5777
FAX (231) 947-7455
www.spl-inc.com

Certificate of Analysis No. M1-0506100-08

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-5

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 09:59:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1520	30 P	ug/L
BENZENE	ND	10 P	ug/L
TOLUENE	ND	10 P	ug/L
ETHYLBENZENE	ND	10 P	ug/L
TOTAL XYLENE	12	10 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	103
4-Bromofluorobenzene	103

Method 8021B ***
Analyzed by: JMG
Date: 06/10/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

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FAX (231) 947-7455
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Certificate of Analysis No. M1-0506100-09

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.# 00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-1

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 10:02:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	143
4-Bromofluorobenzene	112

Method 8021B ***
Analyzed by: JMG
Date: 06/10/2005

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

MICHIGAN LABORATORY
459 HUGHES DRIVE
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www.spl-inc.com

Certificate of Analysis No. M1-0506100-10

SPEEDWAY SUPERAMERICA LLC.
500 Speedway Drive
Enon, OH 45323
ATTN: Brent Foos

P.O.#
00004378 ***FUNDED***
DATE: 06/13/2005

PROJECT: 3642 - SPEEDWAY STATION
SITE: 939 DIXIE HWY, ROSSFORD, OH
SAMPLED BY: ATC ASSOCIATES, INC.
SAMPLE ID: MW-8

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/02/2005 10:04:00
DATE RECEIVED: 06/03/2005

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	7.3	5 P	ug/L
BENZENE	ND	5 P	ug/L
TOLUENE	ND	5 P	ug/L
ETHYLBENZENE	ND	5 P	ug/L
TOTAL XYLENE	ND	5 P	ug/L

Surrogate	% Recovery
1,4-Difluorobenzene	109
4-Bromofluorobenzene	112

Method 8021B ***
Analyzed by: JMG
Date: 06/10/2005

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses were performed in accordance with EPA Guidelines for analysis and quality control.

QUALITY CONTROL DOCUMENTATION

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 3333050609030400

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	98	98.0	71 - 129
Benzene	ND	100	93	93.0	81 - 123
Toluene	ND	100	95	95.0	81 - 123
EthylBenzene	ND	100	99	99.0	77 - 121
O Xylene	ND	100	97	97.0	74 - 130
M & P Xylene	ND	100	96	96.0	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	23	115	19	95.0	19.0	55	19 - 189
BENZENE	ND	20	19	95.0	19	95.0	0	26	56 - 160
TOLUENE	ND	20	18	90.0	20	100	10.5	26	58 - 154
ETHYLBENZENE	ND	20	18	90.0	19	95.0	5.41	27	47 - 162
O XYLENE	ND	20	19	95.0	20	100	5.13	30	38 - 177
M & P XYLENE	ND	20	19	95.0	20	100	5.13	27	30 - 188

Analyst: JMG

Sequence Date: 06/09/05

SPL ID of sample spiked: 0506088-15A

Sample File ID: 3F08034.TX0

Method Blank File ID:

Blank Spike File ID: 3F09030.TX0

Matrix Spike File ID: 3F09027.TX0

Matrix Spike Duplicate File ID: 3F09028.TX0

* = Values Outside QC Range. < = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0506100-04A 0506100-07A 0506088-10A 0506088-07A 0506088-08A 0506100-02A 0506100-01A 0506100-03A

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Water
Units: ug/L

Batch Id: 3333050610030200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	100	100	71 - 129
Benzene	ND	100	97	97.0	81 - 123
Toluene	ND	100	100	100	81 - 123
EthylBenzene	ND	100	110	110	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	19	95.0	19	95.0	0	55	19 - 189
BENZENE	ND	20	18	90.0	20	100	10.5	26	56 - 160
TOLUENE	ND	20	19	95.0	20	100	5.13	26	58 - 154
ETHYLBENZENE	ND	20	19	95.0	20	100	5.13	27	47 - 162
O XYLENE	ND	20	20	100	21	105	4.88	30	38 - 177
M & P XYLENE	ND	20	20	100	21	105	4.88	27	30 - 188

Analyst: JMG
Sequence Date: 06/10/05
SPL ID of sample spiked: 0506052-02A
Sample File ID: 3F09051.TX0
Method Blank File ID:
Blank Spike File ID: 3F10004.TX0
Matrix Spike File ID: 3F10005.TX0
Matrix Spike Duplicate File ID: 3F10006.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: Laboratory historical
(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0506051-12A 0506100-09A 0506100-10A 0506048-18A 0506053-16A 0506053-17A 0506053-18A 0506053-20A 0506048-15A 0506051-11A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8021B ***

Matrix: Water

Batch Id: 4444050610040200

Units: ug/L

L A B O R A T O R Y C O N T R O L S A M P L E

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	100	100	71 - 129
Benzene	ND	100	94	94.0	81 - 123
Toluene	ND	100	97	97.0	81 - 123
EthylBenzene	ND	100	100	100	77 - 121
O Xylene	ND	100	100	100	74 - 130
M & P Xylene	ND	100	100	100	71 - 134

M A T R I X S P I K E S

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	20	100	22	110	9.52	55	19 - 189
BENZENE	ND	20	20	100	23	115	14.0	26	56 - 160
TOLUENE	ND	20	19	95.0	22	110	14.6	26	58 - 154
ETHYLBENZENE	ND	20	20	100	23	115	14.0	27	47 - 162
O XYLENE	ND	20	21	105	22	110	4.65	30	38 - 177
M & P XYLENE	ND	20	21	105	23	115	9.09	27	30 - 188

Analyst: JMG

Sequence Date: 06/10/05

SPL ID of sample spiked: 0506202-01A

Sample File ID: 4F09035.TX0

Method Blank File ID:

Blank Spike File ID: 4F10004.TX0

Matrix Spike File ID: 4F10005.TX0

Matrix Spike Duplicate File ID: 4F10006.TX0

* = Values Outside QC Range. « = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Laboratory historical

(***) = Source: Laboratory historical

SAMPLES IN BATCH(SPL ID): 0506048-19A 0506088-11A 0506100-05A 0506100-06A 0506162-02A 0506162-03A 0506162-04A 0506162-05A 0506162-06A 0506057-09A 0506100-08A 0506086-01A

ATTACHMENT C

POTABLE WATER WELL DOCUMENTATION

2,000 feet
Site
Rossford
Eagle Point Colony
Eagle Point Sch
Eagle Point Cem
Fire Sta
City Hall
High Sch
Walnut St Sch
HARRIS YARD
INTERCHANGE 198
Grassy Island
SCHRIER RD
BALTIMORE AND OHIO
BM 621
BM 618
BM 625
Bates
TERMINAL ROAD
TOLEDO
RIVER
Golf Course
FORD ROAD
OHIO
Creek
TURNPIKE
INTERCHANGE 197
BUCK ROAD
MANDELL ROAD
GLENWOOD
CITY
Sewage Disposal
Penta
146
189
193
221

ORIGINAL

LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK.

No. 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohi

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4¼ Length of casing 81' 4"
Type of screen none Length of screen
Type of pump 1/2 H.P. Sub
Capacity of pump 15 G.P.M.
Depth of pump setting 120 ft.
Date of completion 11/30/1967

BAILING OR PUMPING TEST

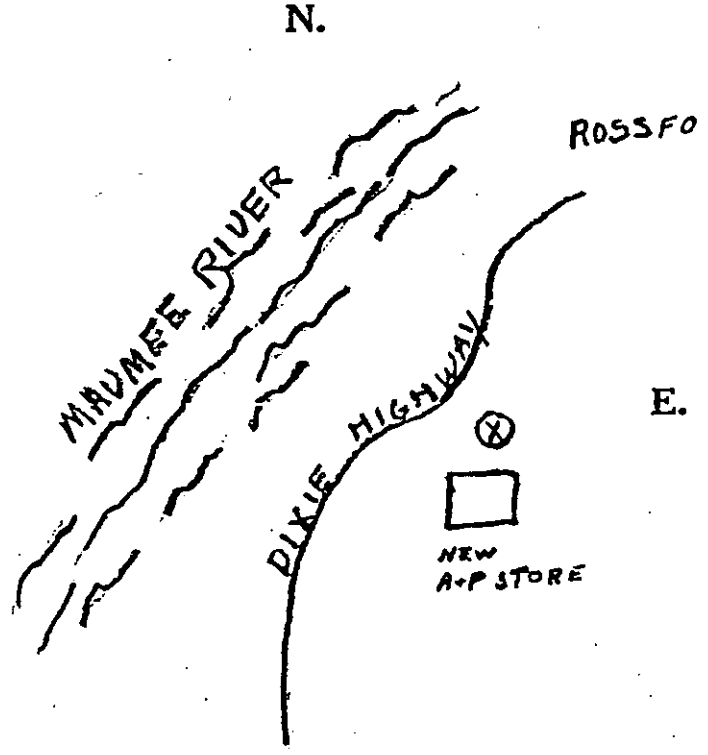
Pumping Rate 20 G.P.M. Duration of test 3 hrs.
Drawdown 10 ft. Date 11/21/1967
Static level-depth to water 75 ft.
Quality (clear, cloudy, taste, odor) clear
Pump installed by Larson Drilling & MAch. Inc

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft
Soft Blue Clay	35 ft.	65 ft
Hard Pan	65 ft.	70 ft
Soft Blue Clay	70 ft.	77 ft
Broken Brown Lime	77 ft.	80 ft
Hard Brown Lime	80 ft.	102 ft
Hard Gray Lime	102 ft.	115 ft
Light Brown Lime	115 ft.	130 ft
Tan Brown Lime	130 ft.	161 ft
Hard Brown Lime	161 ft.	166 ft
Blueish Gray Lime Hard Traverse	166 ft.	191 ft
Light Brown Lime	191 ft.	201 ft

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

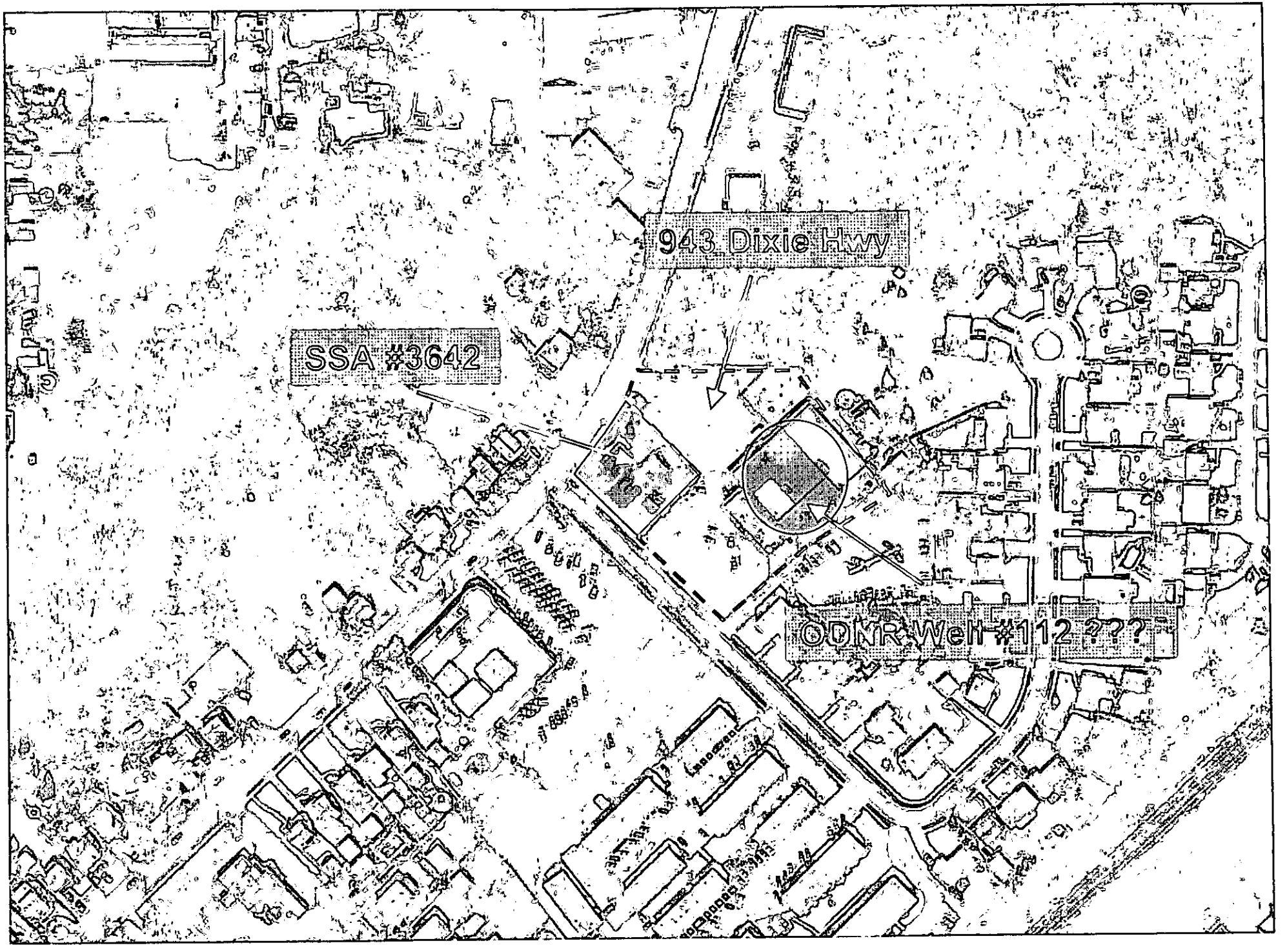


See reverse side for instructions

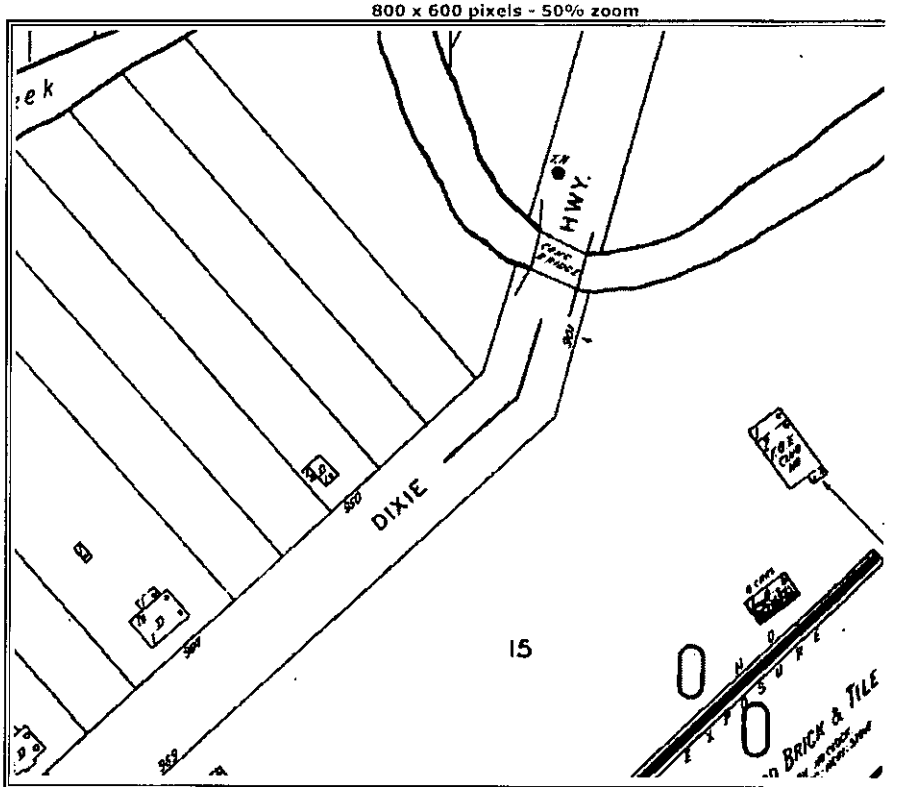
Drilling Firm Larson Drilling & Mach. Inc. Date 1/16/1968

Address 211 W. Sophia St. Maumee, Ohio Signed

*If additional space is needed to complete well log, use next consecutive numbered form.


943 Dixie Hwy
SSA #3642
ODNR Well #112 ???

800 x 600 pixels - 50% zoom



Zoom to 100 (percent) Size 800 x 600 (pixels)

Set the zoom and size then click an area on the image

Toledo, Ohio (1931-1944 vol. 4A, 1944)

Water Use Survey Results
Speedway SuperAmerica Store #3642
939 Dixie Highway
Rossford, Ohio

Owner Name	Address	Survey Question* Answers				Additional Comments	Date Signed
		1	2	3	4		
Current tenant/Property owner	916 North Dixie Hwy., Rossford, OH 43460	N	N	Y	N		7/13/05
Brian International	939 North Dixie Hwy., Rossford, OH 43460					Attempted not known	
Current tenant/Property owner	943 North Dixie Hwy., Rossford, OH 43460	N		N			
Current tenant/Property owner	958 North Dixie Hwy., Rossford, OH 43460					No Response	
Current tenant/Property owner	962 North Dixie Hwy., Rossford, OH 43460					No Response	
Current tenant/Property owner	964 North Dixie Hwy., Rossford, OH 43460					No Response	
Rossford Recreation	969 North Dixie Hwy, Rossford, OH 43460	N		Y	N		7/14/05
Rossview LLC	80 Rossway Ave., Rossford, OH 43460	N		Y	N		7/13/05
Current tenant/Property owner	118 Rossway Ave., Rossford, OH 43460					No Response	

*Survey Questions:

1. Is a water well installed on your property for drinking, irrigation or other purposes?
2. If YES to #1: Is the water well still in use (if no, please explain)?
3. Are you obtaining your drinking water from a municipal or private source (I.e. from the city or village)?
4. Are you aware of any water wells in the area (if yes, please explain)?

7/11/2005

ROSSFORD RECREATION
969 NORTH DIXIE HIGHWAY
ROSSFORD/OHIO/43460

RE: Water Use Survey of Properties Located Within 300 Feet of the following UST site:
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, OHIO
FACILITY ID #87000087

Dear PROPERTY OWNER/TENANT:

ATC ASSOCIATES, INC. is conducting an environmental investigation on behalf of SPEEDWAY SUPERAMERICA for the above referenced site to maintain compliance with the State Fire Marshal, Bureau of Underground Storage Tank Regulations (BUSTR). BUSTR requires that a survey be conducted on every property within 300 feet of the UST site referenced above to determine if drinking water wells are or have been present. This investigation is being performed in an effort to try to protect drinking water resources.

This letter was sent to you because your property is located within 300 feet of the UST site referenced above. Please answer the four questions below and return the form within 10 days to assist us in evaluating drinking water usage within the surrounding area of the UST site. By returning this survey, you are helping us make a well-informed, environmentally responsible decision in your community. If you have any questions, please contact me by telephone at 440-838-7177.

Sincerely,

NATHAN SARACENO
STAFF GEOLOGIST

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

_____

Signature of property owner/manager: Chaus Dun Date: 7/14/05

Enclosure: Self-Addressed Stamped Envelope

7/11/2005

CURRENT TENANT/PROPERTY OWNER
943 NORTH DIXIE HIGHWAY
ROSSFORD/OHIO/43460

RE: Water Use Survey of Properties Located Within 300 Feet of the following UST site:
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, OHIO
FACILITY ID #87000087

Dear PROPERTY OWNER/TENANT:

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2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? Y (N)
4. Are you aware of any water wells in the area (if yes, please explain)? Y N

Comments: _____

_____

_____

Signature of property owner/manager: _____ Date: _____

Enclosure: Self-Addressed Stamped Envelope

7/11/2005

ROSSVIEW LLC
80 ROSSWAY AVENUE
ROSSFORD/OHIO/43460

RE: Water Use Survey of Properties Located Within 300 Feet of the following UST site:
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, OHIO
FACILITY ID #87000087

Dear PROPERTY OWNER/TENANT:

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1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

_____

Signature of property owner/manager: Ralph J Witham Date: 7/13/05

Enclosure: Self-Addressed Stamped Envelope

7/11/2005

CURRENT TENANT/PROPERTY OWNER
916 NORTH DIXIE HIGHWAY
ROSSFORD/OHIO/43460

RE: Water Use Survey of Properties Located Within 300 Feet of the following UST site:
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, OHIO
FACILITY ID #87000087

Dear PROPERTY OWNER/TENANT:

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2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y (N)
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

Signature of property owner/manager: Brian Miller Date: 7-13-05

Enclosure: Self-Addressed Stamped Envelope

Associates Inc.
.0 Brecksville Road
ksville, OH 44141-3219

★ ★ ★ UNITED STATES POSTAGE
113
1730 $ 00.37⁰ PB8731743 JUL 11 05
4812 BROADVIEW HTS, OH 44147

Brian International
939 North Dixie Highway
Rossford, Ohio 443460

A C S
☐ INSUFFICIENT ADDRESS
■ ATTEMPTED NOT KNOWN
☐ NO SUCH NUMBER/ STREET
☐ NOT DELIVERABLE AS ADDRESSED - UNABLE TO FORWARD
☐ OTHER

RTS
RETURN TO SENDER

ATC ASSOCIATES INC.
Engineering Individual Solutions

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

IRA IMPLEMENTATION REPORT

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
Release #87000087-N00002

Prepared for:

Mr. Michael Bracey
Manager, Environmental Remediation
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

Travis S. Bukach, CHMM
Project Manager

Mark A. Samblanet
Senior Project Manager

November 17, 2009

RECEIVED
SFM/BUSTR
2009 NOV 20 PM 3:58

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Appendix E Remediation System Construction Details/Diagrams

Appendix F Permitting

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct Interim Response Action (IRA) Implementation activities at SSA Store #3642 located at 939 Dixie Highway, Rossford (Wood County), Ohio. The IRA Notificaiton dated March 31, 2009 was approved by the Bureau of Underground Storage Tank Regulation (BUSTR) in a letter dated April 15, 2009 (**Appendix A**). The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted cost pre-approval for the IRA activities on April 24, 2009 (**Appendix A**).

This report summarizes the activities conducted to implement the approved IRA which included the installation of the recovery well network, sub-grade remediation piping, mobilization and start-up of a dual phase recovery mobile treatment unit (MTU), system installation, discharge permitting activities (liquid and vapor), dedicated electrical service installation, baseline (pre-system) site measurements, and initial monitoring activities. The IRA activities have been conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 31, 1999 and the Bureau of Underground Storage Tank Regulations (BUSTR) Technical Guidance Manual (2001).

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

BUSTR issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and MTBE.

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

3.0 IRA IMPLEMENTATION ACTIVITIES

To decrease dissolved MTBE concentrations in groundwater onsite, ATC proposed to conduct an IRA consisting of high vacuum dual-phase recovery for a period of three months. The following sections summarize the IRA implementation activities conducted at the site including recovery well installation, sub-grade piping installation, well development, baseline groundwater sampling, electrical service installation, MTU modification and mobilization, permitting, and system start-up activities.

3.1 Recovery Well Installation

Dissolved MTBE concentrations have historically exceeded Tier 2 site specific target levels (SSTLs) in MW-4 and MW-5; therefore, groundwater recovery will be targeted in these areas. However, in order to assure that no recovery pipe trenching overlapped the site product piping, a new recovery well (MW-11) was installed southwest of MW-4. On July 29, 2009, the new recovery well was installed by Envirocore Limited under the supervision of an ATC geologist. The well was installed using hollow-stem auger and direct push technology. The first five feet was advanced using a hand auger to prevent contact with unmarked underground utilities. Soil samples were collected continuously from five feet to the total depth of the boring (24 feet). Soil samples from each two foot interval were collected and equally divided between one laboratory grade glass jar and a re-sealable plastic baggie using a pair of clean, nitrile gloves per sample interval to prevent cross-contamination. The jar was secured with a screw-on Teflon™-lined lid, and stored on ice in a cooler for possible laboratory analysis. The re-sealable baggie was held for a minimum of 10 minutes prior to scanning the headspace for volatile organic compounds (VOCs). Soil samples were field screened for VOCs using a Photovac Microtip Photoionization Detector (PID). The PID was calibrated with a 100 parts per million (ppm) isobutylene-in-air commercial gas standard, and used in accordance with the manufacturer's operating instructions. The headspace above each sample was scanned for VOCs by piercing the baggie with the PID probe, and the maximum observed reading in ppm was recorded. The VOC measurements are summarized on the soil boring log (**Appendix B**). The field geologist provided a complete description of soils encountered during drilling activities according to the Unified Soil Classification System and the Standard Visual-Manual Soil Classification Scheme (ASTM 2488-84) to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, soil type, and other important features for each sample are recorded on the soil boring log in **Appendix B**. Each soil sample was also carefully examined for evidence of petroleum hydrocarbons.

The undisturbed portion of samples (collected from the unsaturated zone of each boring) corresponding to the highest measured VOC reading, and the sample collected from immediately above the zone of saturation were selected for laboratory analysis. The samples were placed in a cooler with ice, and transported under chain-of-custody procedures to Pace Analytical in Green Bay, WI for analysis. Soil samples were analyzed for BTEX and MTBE by EPA Method 8021B, total petroleum hydrocarbons (TPH; C6-C12) by EPA Method 8015.. The results of the laboratory analyses have been summarized in **Tables 1** and **2** and the complete laboratory report has been included in **Appendix C**. **Figure 3** presents the soil analytical results for MW-11 and all historical borings.

All tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse, followed by a final rinse with distilled water. The equipment was allowed to air dry prior to reuse. Drilling implements, such as the auger flights and center bit, were steam cleaned before beginning each boring.

Recovery well MW-11 was constructed of 2-inch ID Schedule 40 polyvinyl chloride (PVC) well screen and riser. The well screen section in the monitoring well is 15 feet long with 0.010-inch slots. The riser section extends from the top of the well screen to within approximately eight inches of surface grade. The annular space between the well screen and the borehole walls was filled with a sand filter pack to two feet above the top of the screened interval. The remaining annular space was grouted with bentonite pellets to one foot below surface grade. The well was completed with a eight-inch steel man-box and concrete flush-mount pad for protection. Well construction details are presented in the boring log (**Appendix B**).

All soils generated during drilling activities and the purge and development water generated during sampling activities were stored on-site in labeled, 55-gallon, closed top drums, awaiting proper disposal.

3.2 Sub-grade Recovery Piping Installation

On August 3, 4 and 5, 2009, Team Environmental installed the sub-grade remediation piping to connect the two recovery wells to the junction box located on the southeast side of the sales building. Dedicated dual-phase recovery lines constructed of 2-inch ID schedule 40 PVC were run from each recovery well to the junction box so that liquid/vapor recovery can be conducted/controlled for each well individually to optimize remedial efforts. An effluent discharge line was run in the same trench from the junction box to the storm sewer line located near MW-5. Furthermore, expansion lines were installed to allow for the inclusion of additional recovery wells in the future. The piping runs were laid side-by-side within the trench, pressure tested, and surrounded by a 12-inch layer of pea-gravel for protection. The remainder of the trench was backfilled to eight-inched of grade with pea-gravel. The trench was then re-surfaced to grade with concrete. To protect and house recovery piping at the recovery wellheads, 24 by 24 inch steel man-boxes were installed and set with concrete. Reference **Appendix E** for schematic illustrations of the piping installations, man-box details, and well manifolds. **Figure 2** illustrates the layout of the remediation piping, recovery wells, and junction box.

3.3 Permitting Activities and Electrical Service

The liquid recovery and treatment system is permitted under an Ohio Environmental Protection Agency (OEPA) Permit to Install (PTI) in accordance with the specifications of the local governing district. The PTI (#625387) was issued for the MTU system previously operated at SSA #9407 in Whitehall, Ohio. Correspondence was submitted to notify the OPEA that the MTU will be operated at SSA #3642 for a three month period (**Appendix F**). Discharge to the storm sewer is authorized under an OEPA NPDES permit (**Appendix F**). The NPDES permit was issued on July 17, 2009 and monthly discharge monitoring reports have been submitted to the OEPA to maintain compliance with the permit (**Appendix F**).

A dedicated temporary power drop was installed at the site on July 8, 2009 to provide electrical service to run the MTU (a licensed electrician conducted oversight for the new service installation including the utility pole installation, permitting, and metering). However, the MTU is designed to run on three-phase electric and only single-phase power is available at the site. Therefore, the MTU was retrofitted with a phase-converter that will allow the system to operate at both single-phase and three-phase sites. PUSTRCB provided written pre-approval to install the phase converter in an email dated September 8, 2009 in response to a pre-approval request letter dated September 8, 2009 (**Appendix A**).

3.4 Baseline Groundwater Sampling

On September 9, 2009, the entire well network was re-developed using a PVC bailer. The bailer was lowered by clean, disposable rope into the water that had accumulated within each well, and then rapidly raised and lowered several times. The surging effect created by the motion of the bailer loosens the fine material that may have been clogging the well screen or the surrounding sand pack. After developing each well, the rope was discarded and the bailer was scrubbed with a Liquinox™ and water solution, rinsed with tap water, and given a final rinse with distilled water to prevent cross-contamination between wells. The well development log has been included in **Appendix D**.

On September 29, 2009, a complete groundwater sampling event was conducted to provide baseline data prior to initiating groundwater recovery activities. Depth to fluid measurements were collected from all site monitoring/recovery wells and the wells were purged of static water in preparation for baseline sampling. Purging continued from each well until either a minimum of three well volumes were removed or until the well went dry. Water samples were collected via clean disposable bailers and transferred into 40 milliliter (ml) glass voas, preserved with hydrochloric acid, and submitted to a laboratory under chain-

of-custody procedures. The groundwater samples were analyzed for BTEX and MTBE by U.S. EPA Method 8260B. The results of the groundwater sampling event are presented in **Table 3** and **Figure 4** and the complete laboratory report is included in **Appendix C**.

All equipment coming in contact with groundwater was decontaminated or discarded between use in each well. Decontamination consisted of scrubbing with a Liquinox™ and tap water solution followed by a rinse with tap water and a final rinse with distilled water. All purged groundwater was treated by the on-site remediation system with the exception of the recovered free product which was drummed and staged onsite for proper disposal.

3.5 System Start-up

On October 1, 2009, the MTU was mobilized to the site and staged on the gravel parking pad installed on the southeast side of the sales building. Team Environmental was onsite to connect the MTU to the dedicated electrical service which has a power disconnect on the service pole. Once the electrical service was connected to the MTU, personnel from Team Environmental began start-up activities. Prior to system start-up, depth to fluid measurements and vacuum readings were collected from all site monitoring/recovery wells.

On September 30, 2009 and October 1, 2009, the dual-phase remediation system was connected to the recovery network, started, and monitored for three hours to ensure proper operation. An additional site visit was conducted during the first week of operation to ensure that the system was functioning properly. These activities will be detailed in the IRA Completion Report which will summarize system operation, monitoring, and maintenance activities for the three month duration of the IRA.

3.6 System Operation, Monitoring, and Maintenance

The system operations, maintenance, and monitoring (OM&M) will include the following list of activities during regularly scheduled site visits for a three month period:

- Monthly depth to fluids will be measured in all monitoring wells and recovery wells.
- Pressure/vacuum readings will be collected from all monitoring and recovery wells on a monthly basis to monitor the effective radius of influence of the system.
- Routine system maintenance will be conducted during each site visit. This will include changing the particulate filters regularly, changing the blower oil monthly, cleaning of the air stripper (if warranted), backflushing the carbon canisters regularly to extend carbon life over time.
- An air sample for the SVE system effluent discharge air stream will be collected monthly and submitted for laboratory analysis of BTEX by U.S. EPA Method 5030/8020 and TPH as N-Hexane by U.S. EPA Method 5030/8015 to document compliance with discharge requirements.
- Liquid treatment system influent, post air stripper, post carbon #1, and effluent samples will be collected monthly and submitted for laboratory analysis as specified by the site-specific permits.
- Discharged water meter readings and system run time (hours) will be recorded during each site visit.

Table 5 presents the tentative schedule for remediation system OM&M and sampling.

4.0 MONITORING PLAN

At the completion of the three months of liquid recovery via high-vacuum, a year of quarterly groundwater sampling will be conducted to determine if MTBE concentrations will decrease over time. If a consistent decrease is observed, a Tier 3 Evaluation work plan will be prepared at the completion of the fourth quarterly sampling event to outline a strategy to calculate a site specific degradation rate and revised SSTL for MTBE in groundwater. The following is a summary of the BUSTR and PUSTRCB approved monitoring plan.

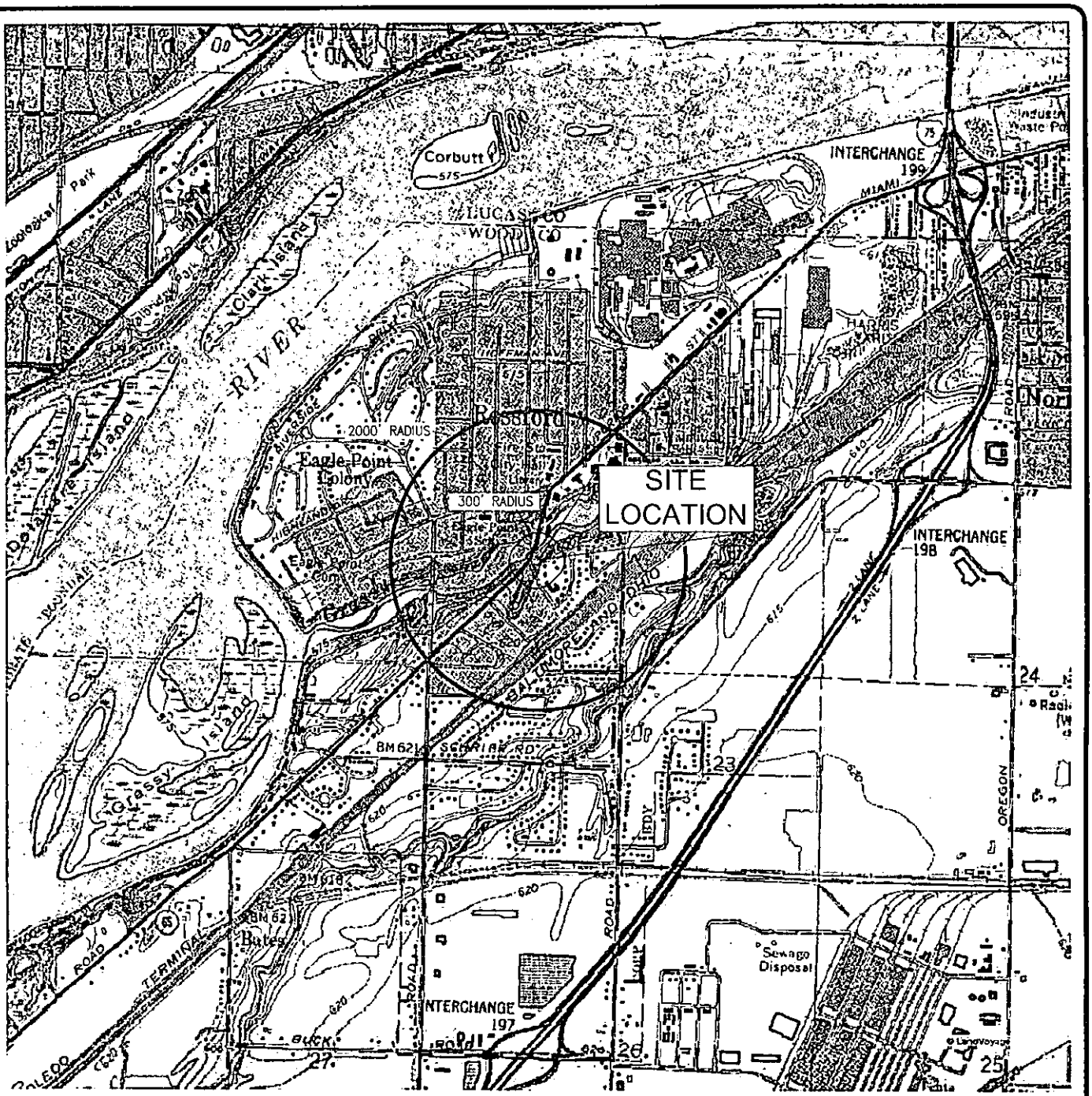
4.1 Groundwater Sampling

Groundwater samples will be collected from all onsite and offsite monitoring/recovery wells every three months (quarterly) (**Table 5**). In preparation for sample collection, depth to fluid measurements will be obtained and the wells will be purged of static water. Purging will continue from each well until either a minimum of three well volumes are removed or until the well goes dry. Water samples will be collected via clean disposable bailers and transferred into 40 milliliter (ml) glass voas, preserved with hydrochloric acid, and submitted to a laboratory under chain-of-custody procedures. The groundwater samples will be analyzed for BTEX and MTBE by U.S. EPA Method 8260B.

All equipment coming in contact with groundwater/surface water will be decontaminated or discarded between use in each well. Decontamination will consist of scrubbing with a Liquinox™ and tap water solution followed by a rinse with tap water and a final rinse with distilled water. All purged groundwater will be treated by the on-site remediation system.

4.2 Reporting

Quarterly reports will be submitted to BUSTR following each quarterly groundwater sampling event. If results are favorable at the completion of the fourth quarterly sampling event, a Tier 3 Work Plan will be presented to BUSTR with the final monitoring plan results for BUSTR approval. The Tier 3 will propose a calibration of the fate and transport model using a site specific degradation rate for MTBE. Degradation can only be calculated from data showing an exponential decrease in concentration versus time. If groundwater results indicate that MTBE remains stable or is increasing, a Remedial Action Plan will be proposed in lieu of the Tier 3.



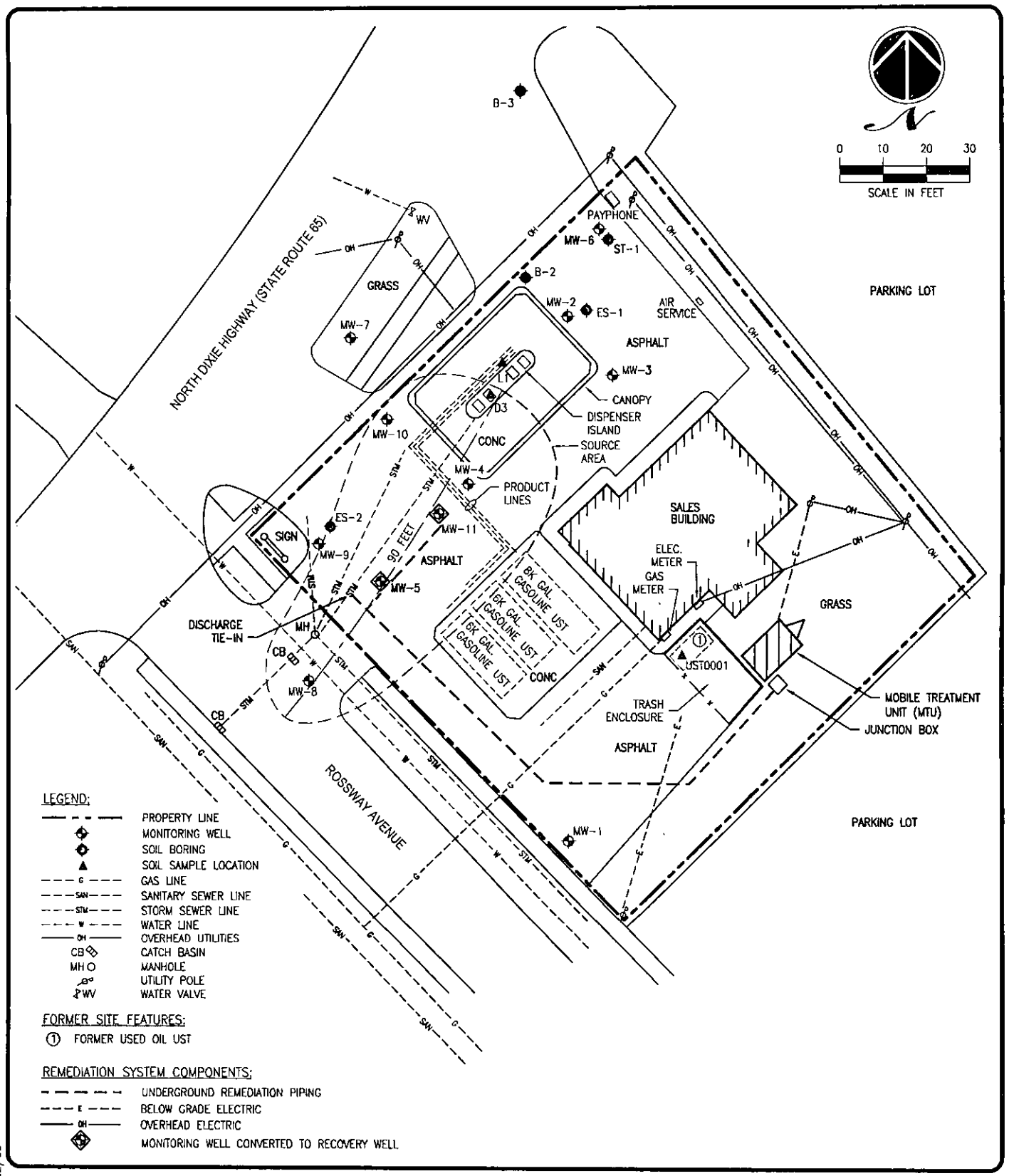
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 8/22/09	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: PC	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



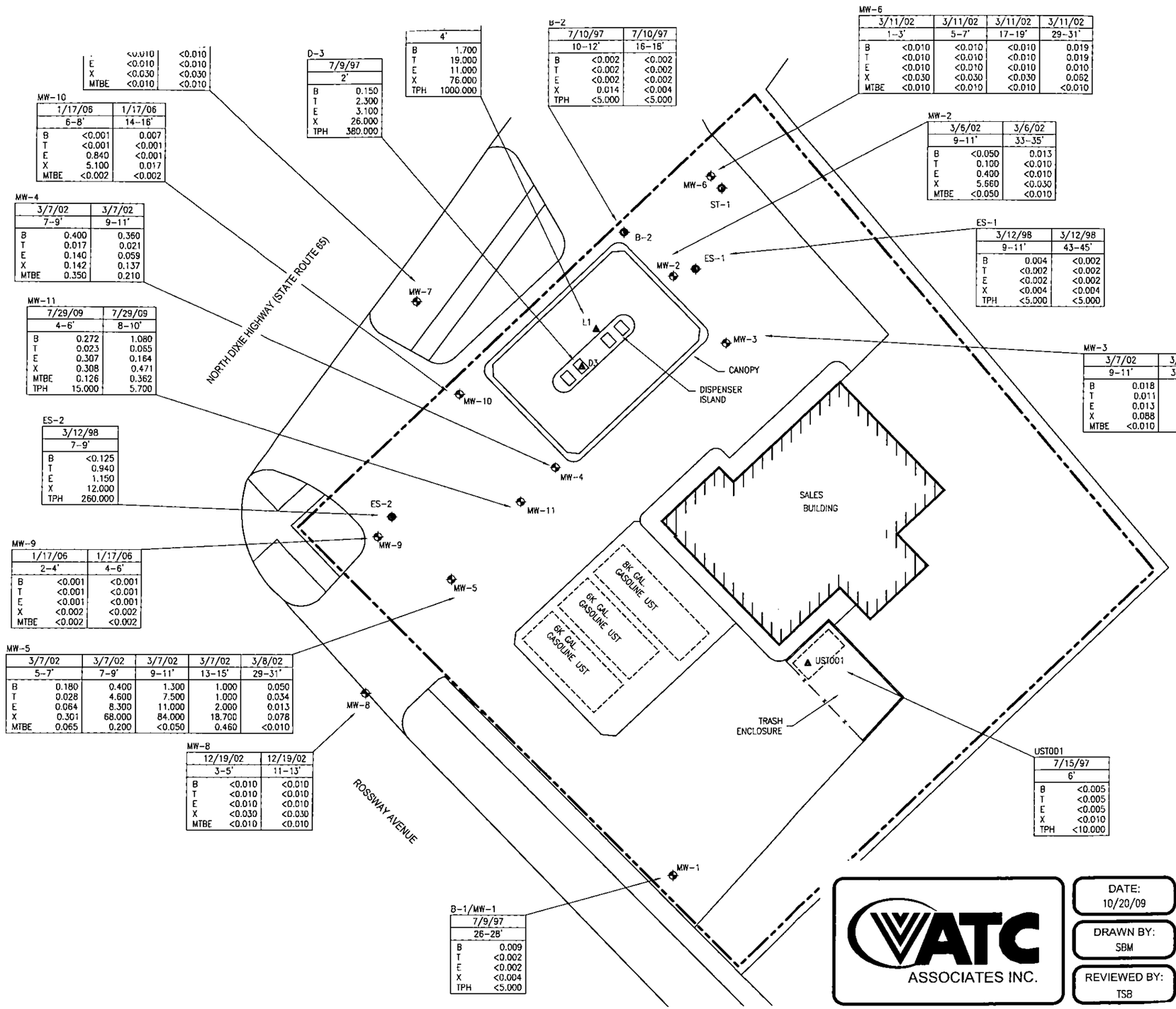
VATC ASSOCIATES INC.

DATE: 8/22/09	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: PC	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

8/22/09
...SSA3642-03.dwg



E	<0.010
X	<0.030
MTBE	<0.010

	4'
B	1.700
T	19.000
E	11.000
X	76.000
TPH	1000.000

D-3

	7/9/97
	2'
B	0.150
T	2.300
E	3.100
X	26.000
TPH	380.000

B-2

	7/10/97	7/10/97
	10-12'	16-18'
B	<0.002	<0.002
T	<0.002	<0.002
E	<0.002	<0.002
X	0.014	<0.004
TPH	<5.000	<5.000

MW-6

	3/11/02	3/11/02	3/11/02	3/11/02
	1-3'	5-7'	17-19'	29-31'
B	<0.010	<0.010	<0.010	0.019
T	<0.010	<0.010	<0.010	0.019
E	<0.010	<0.010	<0.010	0.010
X	<0.030	<0.030	<0.030	0.052
MTBE	<0.010	<0.010	<0.010	<0.010

MW-10

	1/17/06	1/17/06
	6-8'	14-16'
B	<0.001	0.007
T	<0.001	<0.001
E	0.840	<0.001
X	5.100	0.017
MTBE	<0.002	<0.002

MW-2

	3/5/02	3/6/02
	9-11'	33-35'
B	<0.050	0.013
T	0.100	<0.010
E	0.400	<0.010
X	5.560	<0.030
MTBE	<0.050	<0.010

MW-4

	3/7/02	3/7/02
	7-9'	9-11'
B	0.400	0.360
T	0.017	0.021
E	0.140	0.059
X	0.142	0.137
MTBE	0.350	0.210

ES-1

	3/12/98	3/12/98
	9-11'	43-45'
B	0.004	<0.002
T	<0.002	<0.002
E	<0.002	<0.002
X	<0.004	<0.004
TPH	<5.000	<5.000

MW-11

	7/29/09	7/29/09
	4-6'	8-10'
B	0.272	1.080
T	0.023	0.065
E	0.307	0.164
X	0.308	0.471
MTBE	0.126	0.362
TPH	15.000	5.700

MW-3

	3/7/02	3/7/02
	9-11'	33-35'
B	0.018	0.055
T	0.011	0.035
E	0.013	0.016
X	0.088	0.076
MTBE	<0.010	<0.010

ES-2

	3/12/98
	7-9'
B	<0.125
T	0.940
E	1.150
X	12.000
TPH	260.000

MW-9

	1/17/06	1/17/06
	2-4'	4-6'
B	<0.001	<0.001
T	<0.001	<0.001
E	<0.001	<0.001
X	<0.002	<0.002
MTBE	<0.002	<0.002

MW-5

	3/7/02	3/7/02	3/7/02	3/7/02	3/8/02
	5-7'	7-9'	9-11'	13-15'	29-31'
B	0.180	0.400	1.300	1.000	0.050
T	0.028	4.600	7.500	1.000	0.034
E	0.064	8.300	11.000	2.000	0.013
X	0.301	68.000	84.000	18.700	0.078
MTBE	0.065	0.200	<0.050	0.460	<0.010

MW-8

	12/19/02	12/19/02
	3-5'	11-13'
B	<0.010	<0.010
T	<0.010	<0.010
E	<0.010	<0.010
X	<0.030	<0.030
MTBE	<0.010	<0.010

B-1/MW-1

	7/9/97
	26-28'
B	0.009
T	<0.002
E	<0.002
X	<0.004
TPH	<5.000

UST001

	7/15/97
	6'
B	<0.005
T	<0.005
E	<0.005
X	<0.010
TPH	<10.000

0 5 10 15 20
SCALE IN FEET

LEGEND:
- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION

CONCENTRATIONS IN ppm (mg/kg)

SAMPLE DATE	
SAMPLE DEPTH	
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHYL-TERTIARY-BUTYL-ETHER
TPH	TPH GRO (C6-C12)

TPH -TOTAL PETROLEUM HYDROCARBONS
[BOLD] -VALUE EXCEEDS TIER 1 ACTION LEVEL

B-3

	7/10/97
	38-40'
B	0.012
T	0.010
E	<0.002
X	<0.004
TPH	<5.000

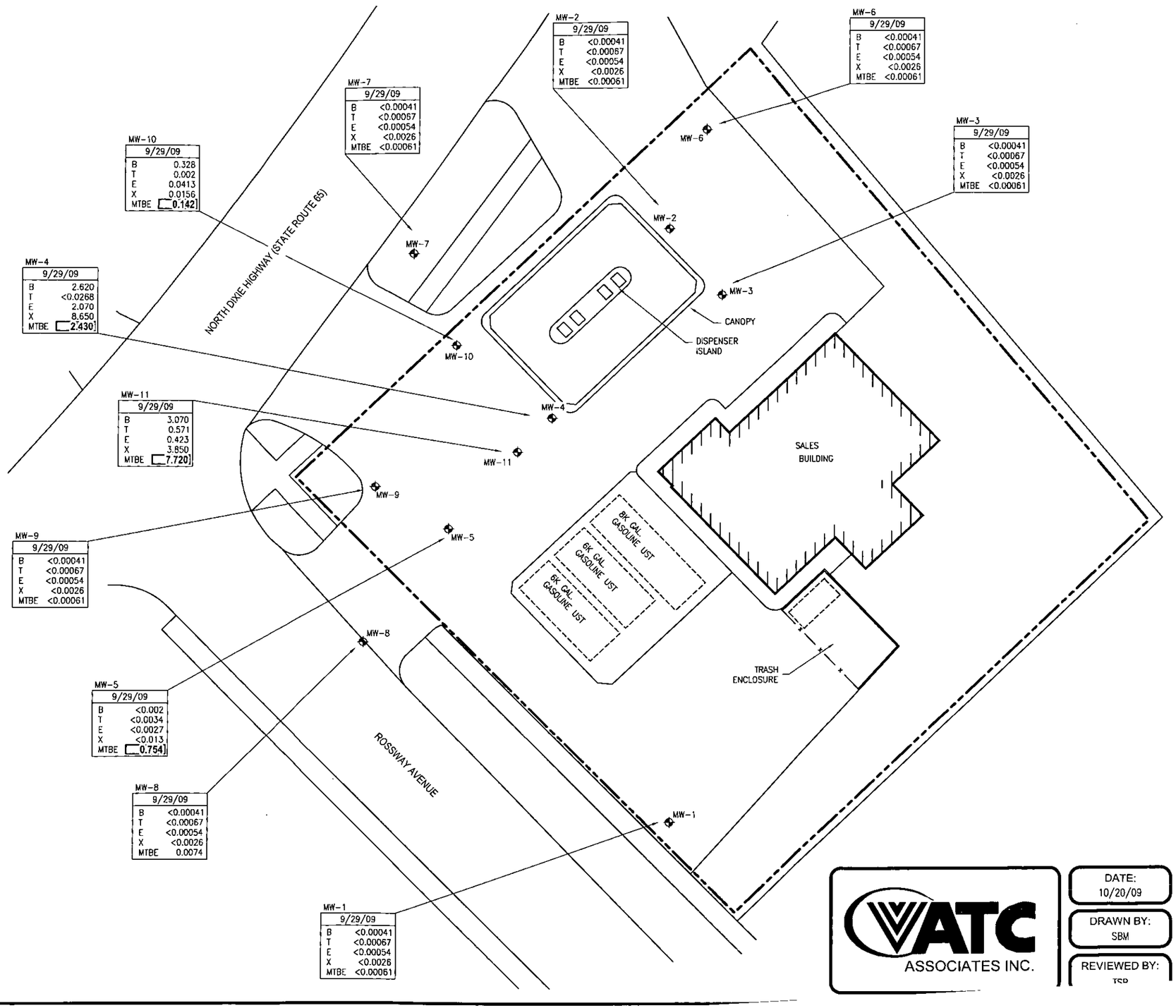
...SSA3635-03.dwg 10/20/09

ATC ASSOCIATES INC.

DATE:	10/20/09
DRAWN BY:	SBM
REVIEWED BY:	TSB
PROJECT NO.:	008.75116.0557
SCALE:	1" = 20'
	FIGURE 3

SOIL ANALYTICAL MAP
(HISTORICAL)

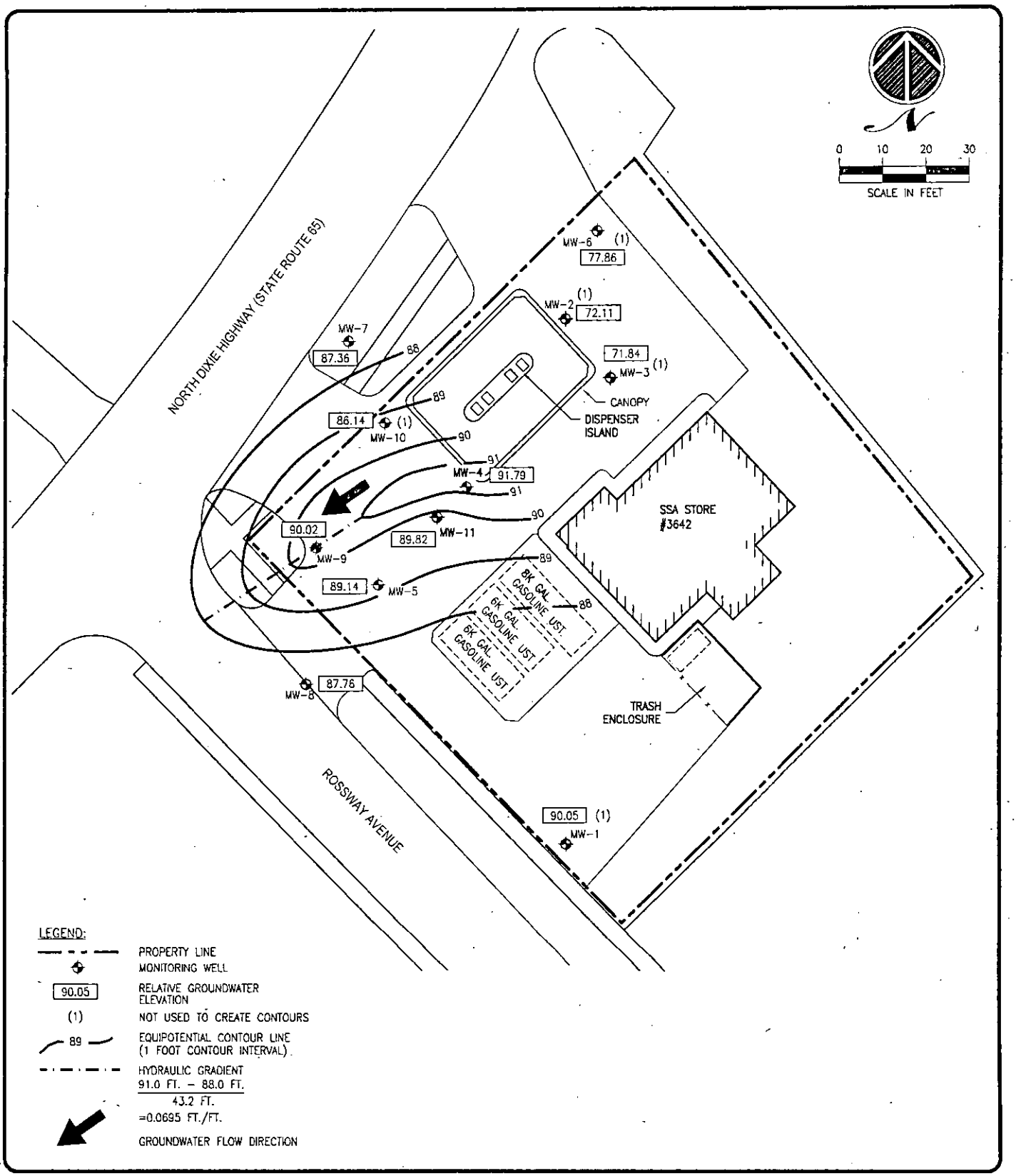
SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



ASSOCIATES INC.

DATE: 10/20/09	PROJECT NO.: 008.75116.0557	GROUNDWATER ANALYTICAL MAP SEPTEMBER 29, 2009	
DRAWN BY: SBM	SCALE: 1" = 20'	SPEEDWAY SUPERAMERICA, LLC SSA #3642 939 DIXIE HIGHWAY ROSSFORD, WOOD COUNTY, OHIO	
REVIEWED BY: TSR	FIGURE 4		

...SSA3635-02.dwg 3/29/09



...SSA3642-03.dwg 10/28/09

VATC ASSOCIATES INC.

DATE: 10/28/09	PROJECT NO.: 08.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 5

POTENTIOMETRIC SURAFCE MAP
SEPTEMBER 29, 2009

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.013	< 0.009	< 0.012	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.013	< 0.009	< 0.012	< 0.028	< 0.012
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.002
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.002
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-02								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	97.91	88.87	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	97.91	89.16	8.75										
	09/29/2009	00:00	97.91	89.14	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
MW-11	09/09/2009	00:00	99	89.99	9.01										
	09/29/2009	00:00	99	89.82	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L
	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L
	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A

GOVERNMENT CORRESPONDENCE

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.ohio.gov

Ted Strickland
Governor

Kimberly A. Zurz
Director

RECEIVED
Environmental
APR 2 0 2009
SSA, LLC

April 15, 2009

ADAM CAMPBELL
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: INTERIM RESPONSE ACTION

Dear Mr. Campbell:

The Bureau of Underground Storage Tank Regulations (BUSTR) received your letter dated March 31, 2009 notifying BUSTR that you plan to perform Interim Response Actions at the site listed above.

Based on the information submitted, BUSTR approves the activities outlined in your letter. Please perform all IRA activities and submit all reports in accordance with OAC 1301:7-9-13, effective March 1999.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm/bust *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 614-728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Cindy Duann - PUSTRCB
Mark Samblanet - ATC
Travis Bukach - ATC

Speedway SuperAmerica LLC

P.O. Box 1500
Springfield, OH 45501
Telephone 937-864-3000

ELECTRONIC MAIL

September 8, 2009

Mr. Cindy Duann
Claims Supervisor
PUSTRCB
50 West Broad Street (Suite 150)
Columbus, Ohio 43215

RE: **PRE-APPROVAL REQUEST**
Speedway SuperAmerica #3642
939 N. Dixie Hwy
Rossford, Ohio 43460
Wood County
Release #87000087-N00002
Claim #3567-305/02/27/97

Dear Ms. Duann:

On August 28, 2009, our consultant (ATC Associates, Inc.) contacted Rick Tripple in regards to a mobile treatment unit (MTU) that has operated at Speedway SuperAmerica LLC (SSA) #9407 (Claim #14052-018/12/5/90) in Whitehall, Ohio. The MTU is no longer required at SSA #9407 as clean-up objectives appear to have been met. ATC informed Mr. Tripple that SSA plans to use the MTU from SSA #9407 to conduct the Interim Response Action (IRA) activities at SSA #3642 that have been previously pre-approved by the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) in a letter dated April 24, 2009 (**Attachment A**). This cost pre-approval included MTU rental charges equaling $15,000 for three months of rental.

As a cost savings measure, SSA proposes to use the SSA #9407 MTU at SSA #3642 to eliminate MTU rental charges. The SSA #9407 MTU is designed to run on three-phase electric power; however, only single-phase electric is available at SSA #3642. Therefore, SSA plans to have a phase-converter installed on the MTU which will allow the system to run on single-phase or three-phase electric depending on what is available at the specific site.

Two cost estimates have been obtained for the purchase and installation of a phase-converter (Attachment B). The first quote from Chemviron Midwest is $5,000; however, the phase-converter proposed is undersized given the electrical specifications of the MTU components (blowers, pumps, etc.). Furthermore, the Chemviron installation would be semi-permanent which means that in order to convert the system back to three-phase capability, some re-wiring by a certified electrician would be required. This would cost approximately $750 each time the system was converted from three-phase to single-phase (or vise versa). The second cost estimate was obtained from Kemron which totals $7,428.95. While the Kemron quote is more expensive, it includes an adequately sized phase-converter and an installation that would include a simple switch that would convert the system from three-phase power to single-phase power and back again without the need to hire an electrician to re-wire the system. This kind of "fast" conversion could prove useful in the future if the system is ever moved to other sites, especially those requiring immediate response (e.g., emergency response). Please note that the estimated coast to mobilize the system from the site to Kemron to install the phase-converter is $400.00.

Given the fact that the previously approved MTU rental costs were $15,000, the phase converter installation represents an initial cost savings of $7,170.95. Additional saving could potential be realized in the future as the system may be moved from site to site. However, since using an SSA owned MTU with phase-converter installation deviates from the previously approved cost estimate, SSA respectfully requests written pre-approval from PUSTRCB to proceed with the strategy proposed above. All other installation activities (recovery well, sub-grade piping, electrical, etc.) for the IRA are complete;

therefore, SSA would greatly appreciate a prompt response from PUSTRCB so that IRA activities can be implemented without additional delay.

If you have any questions, please do not hesitate to contact me at (937) 863-7391.

Sincerely,

SPEEDWAY SUPERAMERICA LLC

Adam Campbell
Environmental Representative

AC/

Attachments: PUSTRCB Letter and Cost Estimates

cc: w attachment

Rick Tripple – Claims Analyst (PUSTRCB)
Rick Krueger – Environmental Specialist (BUSTR)
Mark Samblanet – Senior Project Manager (ATC)
Travis Bukach – Project Manager (ATC)

ATTACHMENT A

PUSTRCB CORRESPONDENCE

Petroleum Underground Storage Tank Release Compensation Board

P.O. Box 163188 • Columbus, Ohio 43216-3188
Phone: (614) 752-8963 • Fax: (614) 752-8397
www.petroboard.com

April 24, 2009

Mr. Adam Campbell
Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

CLAIM NUMBER: 3567-305/02/27/97
RELEASE #: 87000087-N00002
RELEASE SITE ADDRESS:
SSA #3642
939 East River Rd.
Rossford, OH 43460
IRA/MP COST SUBMISSION DATE: 4/3/09

Dear Mr. Campbell:

The cost pre-approval request for an Interim Response Action (IRA) followed by one year of groundwater monitoring for the above-referenced site has been reviewed. The proposed work includes a baseline groundwater sampling event of 10 monitoring wells; permitting; conversion of an existing monitoring well into a recovery well and installation of a new recovery well; subgrade/vault installation; an electrical power drop; three months of liquid recovery via a rented high vacuum dual-phase recovery mobile treatment unit (MTU); preparation of an IRA implementation report with a monitoring plan; four quarterly groundwater sampling events; and preparation of an IRA completion report with a Tier 3 work plan. The cost estimate for the proposed work totals $81,894 ($67,682 + $14,212).

For the reasons set forth below, the cost estimate is granted preliminary approval with modification for $80,914 and under the following condition:

- The cost estimate inadvertently includes "24" samples at $75 each and "20" disposable bailers at $8 each for the proposed baseline groundwater sampling event of 10 existing monitoring wells. Based on the additional information received from ATC Associates Inc. on April 22, 2009, the correct numbers should be 12 samples and 10 bailers. Therefore, a reduction of $980 [(24 – 12) x $75 + (20 – 10) x $8] is reflected in the pre-approved amount.

- Included in the cost estimate are MTU rental charges of $15,000 based on $5,000 per month for three months. In accordance with an April 22, 2009 e-mail from ATC Associates, SSA will use a less expensive Kemron trailer (at $3,500 per month) if one is available when this IRA is implemented.

Please be advised that when a claim is filed, the costs will be evaluated based upon the actual costs as verified by the claim's documentation. At that time please be certain the invoices are broken down on a time and material basis and you have included all subcontractor (e.g., laboratory, driller, equipment, etc.) invoices. Only those actual costs which are documented and eligible in accordance with the Board's rules will be reimbursed.

Only the work described in the IRA/MP has been reviewed. Any work that is performed beyond that described may affect our evaluation. If this IRA/MP is revised in anyway, please contact this office

immediately. **Reimbursement of IRA/MP implementation costs submitted in a claim without cost pre-approval will be limited to no greater than 50% of the usual, customary and reasonable costs of the least expensive remedial alternative based on the Fund's experience.**

If you have any questions, please contact Cindy Duann or me at (614) 752-8963 or (800) 224-4659.

Sincerely,

Starr Richmond

Starr J. Richmond
Director
Financial Assurance Fund

cc: Travis Bukach, ATC Associates Inc., 10020 Brecksville Road, Brecksville, OH 44141

ATTACHMENT B

COST ESTIMATES

Travis Bukach

From: Jeff Mills [jeffm@chemviron.com]
Sent: Tuesday, August 11, 2009 2:40 PM
To: travis.bukach@atcassociates.com
Subject: Roto Phase

Travis,
Installation and shop testing of a Roto Phase converter model RT-20 to go on the SSA Whitehall trailer to go from single phase power (120/240, 200 amp service required) to 3 phase to operate the unit would be $5,000.00 this does not include mob/demob to our Wooster, Ohio facility. The unit would take 3 weeks from time of order to completion. This is a semi permanent conversion, to undo and put back to 3 phase would cost approx $750.00 not including the mob/demob costs. Please let me know if you have any questions!
Thanks!
Jeff

Jeff Mills
Chemviron Midwest, Inc.
Operations Manager
(330) 264-2000 Work
(330) 465-4207 Mobile
jeffm@chemviron.com
3000 Old Airport Rd., Suite A
Wooster, OH 44691
United States of America
http://www.chemviron.com

KEMRON
ENVIRONMENTAL SERVICES

#5 Craddock Way • Rock Branch Industrial Park • Poca, WV 25159 • TEL 304-755-0999 • FAX 304-755-0990

August 28, 2009

Mr. Travis Bukach
ATC Associates, Inc.
10020 Brecksville Rd.
Brecksville, OH 44141

Re: **Rotary Phase Converter Purchase and Installation**
Speedway SuperAmerica Facility #9407
3696 E. Main Street
Whitehall, Ohio
Proposal No. 09-CL-9110

Dear Mr. Bukach,

KEMRON Environmental Services, Inc. (KEMRON) is pleased to submit to ATC Associates, Inc. (ATC) this proposal the purchase and installation of a Phase-A-Matic, R-40 Rotary Phase Converter in the existing Mobile Treatment Unit (MTU) from the above-referenced facility.

The **Phase-A-Matic Rotary Phase Converter (R-40)** provides the following features;

- Runs three-phase equipment from 230 volt single-phase power source;
- NEMA starter;
- Magnetic starter thermal overloads amperage of 117 amps;
- Resistive load applications;
- For use in nonhazardous locations;
- Multi-motor operation; and
- Four (4) year manufacturer warranty.

KEMRON understands that ATC will mobilize the MTU to KEMRON's Poca, West Virginia office for installation of the rotary phase converter.

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

1.0 Business Terms and Conditions

1.1 Time and Cost

If conditions encountered in the field require a scope change increasing project duration or cost, KEMRON will promptly inform you and receive your authorization before proceeding. It is expected that the services outlined above can be accomplished for an **ESTIMATED COST OF $7,428.95** with 50% due at time of order and the remaining 50% due within 30 days after completion of the services proposed herein. Only those costs incurred will be charged, but they will not exceed the ESTIMATED COST without prior approval. To avoid misunderstanding, it should be emphasized that this ESTIMATED COST is a budget estimate based on present knowledge of the assignment, which is believed sufficient to cover services herein described. Estimated costs for purchase and installation of the rotary phase converter are outlined in **Attachment 1**.

1.2 Terms and Conditions

We propose to undertake this work in accordance with our Services Agreement, enclosed with this proposal and incorporated by reference (**Attachment 2**). Additionally, the contents of this proposal have been submitted in confidence and represent trade secrets and/or privileged, confidential or financial information. The technical and financial contents of this proposal shall be used only for evaluation purposes and shall not be disclosed to third parties.

We look forward to assisting ATC with this project. You may authorize us to proceed with the Rotary Phase Converter Installation by completing and returning a copy of the attached Services Agreement with 50% down payment. If you have any questions or would like to discuss this proposal, please feel free to contact me. KEMRON sincerely appreciates the opportunity to provide these services to ATC.

Sincerely,
KEMRON Environmental Services, Inc.

Timothy Wilfong

Timothy W. Wilfong
Project Manager

Attachments

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

TABLE 1
ESTIMATED COSTS
ROTARY PHASE CONVERTER INSTALLATION
SSA FACILITY #9407
WHITEHALL, OHIO

Rotary Phase Coverter Installation

DESCRIPTION	QUANTITY	UNITS	RATE	MULTIPLIER	TOTAL
Phase-A-Matic Rotary Phase Converter (R-40)	1	Ea	$4,579.68	1.05	$4,808.66
Electrical Components (200 Amp Double-Throw Switch & Breaker)	1	Ea	$1,459.80	1.05	$1,532.79
Electrical Wiring & Conduit	1	Ea	$350.00	1.05	$367.50
Labor-Electrician	12	Hrs	$60.00		$720.00
				SUBTOTAL	$7,428.95

TOTAL ESTIMATED COSTS $7,428.95

Travis Bukach

From: Cindy Duann [cduann@petroboard.com]
Sent: Tuesday, September 08, 2009 3:06 PM
To: travis.bukach@atcassociates.com
Cc: 'Rick Trippel'; 'Campbell, Adam M.'; mark.samblanet@atcassociates.com
Subject: RE: SSA #3642 Pre-Approval Request

Travis,

Just a little correction. In our April 24, 2009 letter, we approved **up to** $15,000 for system rental.

The proposed strategy change makes sense. After review of the quote from Kemron, there is a non-reimbursable markup ($319.49) on the converter and electrical components. Other than that, the requested cost estimate will be reimbursed in the claim.

Cindy

From: Travis Bukach [mailto:travis.bukach@atcassociates.com]
Sent: Tuesday, September 08, 2009 10:00 AM
To: 'Cindy Duann'
Cc: 'Rick Trippel'; 'Campbell, Adam M.'; mark.samblanet@atcassociates.com
Subject: SSA #3642 Pre-Approval Request

Cindy,

Please find the attached pre-approval request submitted on behalf of Speedway SuperAmerica LLC (SSA) for SSA #3642 located in Rossford, Ohio (Claim #3567-305/02/27/97). SSA would appreciate an expedited review of this request so that the IRA activities (three months dual-phase recovery) planned for the site can be implemented as soon as possible.

Feel free to call with any questions. Thanks.

Travis S. Bukach, PG, CHMM | Project Manager | **ATC Associates Inc.** | **Cleveland**
440-838-7177 ext. 228 direct | 216-701-7695 mobile

10020 Brecksville Road | Brecksville, OH 44141-3219
440-838-7177 tel | 440-838-7181 fax | www.atcassociates.com

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APPENDIX B

SOIL BORING / WELL INSTALLATION LOGS

ATC ASSOCIATES INC.
DRILLING LOG

Monitoring Well MW-11

Client	Speedway SuperAmerica	Top of Casing Elevation	99.00
ATC Project Number	08.75116.0057	Total Depth of Boring	24 feet
Site Name	SSA #3642	Total Depth of Well	24 feet
Site Address	939 Dixie Highway, Rossford, OH	Borehole Diameter	8-inch
Boring/Well Number	MW-11	Well Diameter	2-inch
Drilling Install Date	7/29/2009	Riser Material/Interval	4 feet PVC, Schedule 40 from 0.25 to 7 feet
Well Install Date	7/29/2009	Screen Material/Interval	17 feet PVC, Schedule 40 from 5 to 22 feet
Drilling Company	Envirocore Limited	Slot Size	0.01
Drilling Method	Direct Push/Hollow Stem Auger	Well Construction Materials	Silica sand filter pack, bentonite seal, concrete
Sample Method	Acetate Liner	Protective cover	8-inch ID steel manhole cover/well cap& lock
Logged By	N. Saraceno	Initial Saturated Zone	11 feet
Reviewed by:	Samblanet	Depth to Saturated Zone	19.5 feet
		Depth to Water Level	9.18 feet

Depth (feet)	Sample No.	Well Const.	OVM/PID (ppm)	Blow Counts**	Recovery (percent)	Lithology
						Asphalt and crushed limestone fill to approximately 8'.
2	0-2'		190.0	N/A	hand augered	Silty CLAY (CL), brown, moist, stiff, trace gravel.
4	2-4'		40.9	N/A	hand augered	
6	*4-6'		192	N/A	hand augered	Same, olive and gray mottled, medium softness, plastic.
8	6-8'		87.2	N/A	25	Same, soft.
10	*8-10'		71.3	N/A	10	Same, trace brick fragments.
12	10-12'		13.6	N/A	10	
14	12-14'		6.4	N/A	100	Same, wood pieces, soft.
16	14-16'		1.4	N/A	100	
18	16-18'		0.9	N/A	100	
	18-19'		1.4	N/A	100	
20	19-20'		1.3	N/A	100	Saturated at 19.5'.
22	20-22'		319.0	N/A	100	Same, moist, very soft, trace gravel.
24	22-24'		11.8	N/A	100	Silty CLAY (CL), brown, moist, stiff, trace gravel.
26						End of exploration at 24 feet.
28						
30						
32						
34						
36						
38						
40						
42						
44						
46						
48						

Notes:
▼ initial saturated zone
* sample interval was submitted for analysis
** blow counts per 6 inches per 2-foot sample
OVM/PID organic vapor meter/photoionization detector
ppm parts per million
wt. weight of the driver on the split spoon

Bentonite Concrete
Sand pack Well Screen

APPENDIX C
LABORATORY ANALYTICAL RESULTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 06, 2009

Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 441413219

RE: Project: 0003642
Pace Project No.: 4020626

Dear Travis Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4020626

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Kentucky Certification #: 83
Louisiana Certification #: 04168
Louisiana Certification #: 04169
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project:. 0003642
Pace Project No.: 4020626

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4020626001	MW-11 (4-6)	Solid	07/29/09 09:45	08/04/09 10:00
4020626002	MW-11 (8-10)	Solid	07/29/09 10:00	08/04/09 10:00

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4020626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4020626001	MW-11 (4-6)	ASTM D2974-87	MRN	1	PASI-G
		EPA 8015B Modified	PMS	1	PASI-G
		EPA 8021	PMS	6	PASI-G
4020626002	MW-11 (8-10)	ASTM D2974-87	MRN	1	PASI-G
		EPA 8015B Modified	PMS	1	PASI-G
		EPA 8021	PMS	6	PASI-G

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4020626

Sample: MW-11 (4-6) **Lab ID: 4020626001** Collected: 07/29/09 09:45 Received: 08/04/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil								
Benzene	**272**	ug/kg	24.7	3.3	1	08/05/09 09:04	08/05/09 15:59	71-43-2	
Ethylbenzene	**307**	ug/kg	61.8	4.4	1	08/05/09 09:04	08/05/09 15:59	100-41-4	
Methyl-tert-butyl ether	**126**	ug/kg	61.8	5.4	1	08/05/09 09:04	08/05/09 15:59	1634-04-4	
Toluene	**23.0J**	ug/kg	61.8	7.4	1	08/05/09 09:04	08/05/09 15:59	108-88-3	
Xylene (Total)	**308**	ug/kg	185	6.4	1	08/05/09 09:04	08/05/09 15:59	1330-20-7	Z2
a,a,a-Trifluorotoluene (S)	91	%	66-140		1	08/05/09 09:04	08/05/09 15:59	98-08-8	
Gasoline Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**15.0**	mg/kg	12.4	3.2	1	08/05/09 09:07	08/05/09 15:59		
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		08/06/09 07:54		

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4020626

Sample: MW-11 (8-10) **Lab ID: 4020626002** Collected: 07/29/09 10:00 Received: 08/04/09 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil								
Benzene	**1080**	ug/kg	24.8	3.3	1	08/05/09 09:04	08/05/09 16:25	71-43-2	
Ethylbenzene	**164**	ug/kg	61.9	4.4	1	08/05/09 09:04	08/05/09 16:25	100-41-4	
Methyl-tert-butyl ether	**362**	ug/kg	61.9	5.5	1	08/05/09 09:04	08/05/09 16:25	1634-04-4	
Toluene	**64.6**	ug/kg	61.9	7.4	1	08/05/09 09:04	08/05/09 16:25	108-88-3	
Xylene (Total)	**471**	ug/kg	186	6.4	1	08/05/09 09:04	08/05/09 16:25	1330-20-7	Z2
a,a,a-Trifluorotoluene (S)	92	%	66-140		1	08/05/09 09:04	08/05/09 16:25	98-08-8	
Gasoline Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**5.7J**	mg/kg	12.4	3.2	1	08/05/09 09:07	08/05/09 16:25		
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.3**	%	0.10	0.10	1		08/06/09 07:55		

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4020626

QC Batch: GCV/3770
QC Batch Method: EPA 5030 Medium Soil
Analysis Method: EPA 8021
Analysis Description: 8021 Med Level Solid GCV
Associated Lab Samples: 4020626001, 4020626002

METHOD BLANK: 190132 Matrix: Solid
Associated Lab Samples: 4020626001, 4020626002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<2.7	20.0	08/05/09 11:16	
Ethylbenzene	ug/kg	<3.5	50.0	08/05/09 11:16	
Methyl-tert-butyl ether	ug/kg	<4.4	50.0	08/05/09 11:16	
Toluene	ug/kg	<6.0	50.0	08/05/09 11:16	
Xylene (Total)	ug/kg	23.0J	150	08/05/09 11:16	
a,a,a-Trifluorotoluene (S)	%	102	66-140	08/05/09 11:16	

LABORATORY CONTROL SAMPLE & LCSD: 190133 190134

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	1000	914	951	91	95	80-120	4	20	
Ethylbenzene	ug/kg	1000	949	986	95	99	80-120	4	20	
Methyl-tert-butyl ether	ug/kg	1000	952	977	95	98	80-120	3	20	
Toluene	ug/kg	1000	951	982	95	98	80-120	3	20	
Xylene (Total)	ug/kg	3000	2870	2970	96	99	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				103	105	66-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 190135 190136

Parameter	Units	4020636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	40.7	1180	1180	1090	1120	89	91	72-131	2	20	
Ethylbenzene	ug/kg	153	1180	1180	1150	1140	84	84	69-140	.6	20	
Methyl-tert-butyl ether	ug/kg	<5.2	1180	1180	1100	1090	93	92	70-138	.6	20	
Toluene	ug/kg	90.2	1180	1180	1150	1150	90	89	78-132	.2	20	
Xylene (Total)	ug/kg	455	3550	3550	3460	3440	85	84	76-134	.9	20	
a,a,a-Trifluorotoluene (S)	%						100	97	66-140			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4020626

QC Batch: GCV/3772
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 4020626001, 4020626002

METHOD BLANK: 190137 Matrix: Solid
Associated Lab Samples: 4020626001, 4020626002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	<2.6	10.0	08/05/09 11:16	

LABORATORY CONTROL SAMPLE & LCSD: 190138 190139

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C12)	mg/kg	50	47.3	48.7	95	97	80-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 190140 190141

Parameter	Units	4020636001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	3.9J	59.2	59.2	53.6	56.2	84	88	70-137	5	20	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4020626

QC Batch: PMST/2836
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4020626001, 4020626002

SAMPLE DUPLICATE: 190382

Parameter	Units	4020660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.3	4.4	.8	10	

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QUALIFIERS

Project: 0003642
Pace Project No.: 4020626

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

Z2 Analyte present in the associated method blank above the detection limit.

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1 MW 4020626

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00018809

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Adam Campbell
PHONE #: O:937-863-7391 x7391 FAX #: Fax: 937-863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: N. Saraceno
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
MW-11 (4-6) 001	07/29/2009 09:45am	S	1	4 OZ	COOL	BTEX/MTBE 8260B	1-4oz cc
				4 OZ	COOL	TPH 8015B C6-C12	↓
MW-11 (8-10) 002	07/29/2009 10:00am	S	1	4 OZ	COOL	BTEX/MTBE 8260B	
				4 OZ	COOL	TPH 8015B C6-C12	

Relinquished by:	Date 8/5/09	Time 1630	Received by:	Date	Time
Relinquished by: FedEx	Date 8/6/09	Time 1000	Received by laboratory:	Date 8/6/09	Time 1000
Special Reporting Requirements: Job #008.75116.0612; PO#08-09-0066			Lab Notes:	Temp 2°	

Sample Condition Upon Receipt

Pace Analytical

Client Name: Arc Project # 4020626

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 16 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/4/09

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7. 5 days
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 8/4/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 889343

Client: SSA-ATC-BRECKSVILLE

Lab Contact: Laurie Woelfel

Project Name: 003642

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
889343-001	Duplicate	WATER	10/02/07 00:00
889343-002	TRIP BLANK	WATER	10/02/07 00:00
889343-003	MW-01	WATER	10/02/07 07:10
889343-004	MW-03	WATER	10/02/07 07:20
889343-005	MW-02	WATER	10/02/07 07:30
889343-006	MW-06	WATER	10/02/07 07:40
889343-007	MW-07	WATER	10/02/07 07:45
889343-008	MW-10	WATER	10/02/07 07:50
889343-009	MW-09	WATER	10/02/07 08:00
889343-010	MW-08	WATER	10/02/07 08:10
889343-011	MW-05	WATER	10/02/07 08:15
889343-012	MW-04	WATER	10/02/07 08:20

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

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ACCREDITED IN ACCORDANCE WITH nelac

Laurie Woelfel
Approval Signature

10/11/07
Date

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : Duplicate

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-001

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 4:18 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1400	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Toluene	<	20	20	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	60	60	20	ug/L		10/09/07 4:18 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	68	64	132	20	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73	127	20	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	20	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-002

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 10:51 AM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Ethylbenzene	<	1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Toluene	<	1.0	1.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B
Xylene, Total	<	3.0	3.0	1	ug/L		10/09/07 10:51 AM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	71	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	88	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-01

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-003

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 10:27 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 10:27 AM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	71	64	132	1	%	10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	1	%	10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68	122	1	%	10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
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920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-03

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-004

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 11:14 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 11:14 AM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
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Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-02

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-005

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 11:38 AM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 11:38 AM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	84	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
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Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-06

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-006

BTEX + MTBE, TOTAL XYLENES Prep Date/Time: 10/09/07 12:01 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 12:01 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL UCL**						
4-Bromofluorobenzene	69	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

Analytical Report Number: 889343

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-07

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-007

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 12:24 PM Anl By: JJB

Analyte	Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Toluene	< 1.0	1.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 3.0	3.0	1	ug/L		10/09/07 12:24 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL UCL**						
4-Bromofluorobenzene	71	64 132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	86	73 127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68 122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-10

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-008

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 3:55 PM **Anl By:** JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene		460	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Ethylbenzene		31	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		77	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Toluene	<	10	10	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	30	30	10	ug/L		10/09/07 3:55 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	73	64	132	10	%	10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	85	73	127	10	%	10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122	10	%	10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-09

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-009

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 12:48 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Toluene	<	1.0	1.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	3.0	3.0	1	ug/L		10/09/07 12:48 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	85	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	99	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-08

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-010

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 1:11 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1.7	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Toluene	<	1.0	1.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	3.0	3.0	1	ug/L		10/09/07 1:11 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	70	64	132	1	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	1	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	100	68	122	1	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 889343

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-05

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-011

BTEX + MTBE, TOTAL XYLENES

Prep Date/Time: 10/09/07 7:10 PM Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Ethylbenzene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1400	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Toluene	<	25	25	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B
Xylene, Total	<	75	75	25	ug/L		10/09/07 7:10 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	72	64	132	25	%		10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127	25	%		10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	68	122	25	%		10/09/07	SW846 5030B	SW846 8260B

Pace Analytical
Services, Inc.

Analytical Report Number: 889343

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SSA-ATC-BRECKSVILLE
Project Name : 003642
Project Number :
Field ID : MW-04

Matrix Type : WATER
Collection Date : 10/02/07
Report Date : 10/10/07
Lab Sample Number : 889343-012

BTEX + MTBE, TOTAL XYLENES — Prep Date/Time: 10/09/07 4:41 PM — Anl By: JJB

Analyte		Result	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Benzene		2200	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Ethylbenzene		1900	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether		1900	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Toluene	<	50	50	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B
Xylene, Total		9200	150	50	ug/L		10/09/07 4:41 PM	SW846 5030B	SW846 8260B

Surrogate	Result	LCL	UCL	Dil.	Units	Anl Date/Time	Prep Method	Anl Method
4-Bromofluorobenzene	81	64	132	50	%	10/09/07	SW846 5030B	SW846 8260B
Toluene-d8	89	73	127	50	%	10/09/07	SW846 5030B	SW846 8260B
Dibromofluoromethane	89	68	122	50	%	10/09/07	SW846 5030B	SW846 8260B

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	889343-001	889343-002	889343-003	889343-004	889343-005	889343-006	889343-007	889343-008	889343-009	889343-010	889343-011	889343-012
BTEX + MTBE, TOTAL XYLENES	G	G	G	G	G	G	G	G	G	G	G	G

Code	OH Certification
G	Not Certified

Sample Condition Upon Receipt

Pace Analytical

Client Name: ATC Assoc Project # 889343

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7997 2830 3780

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/5/07 KBC 10/5/07

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 5DAY TAT
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 10/8/07

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00012586

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Timothy Wilfong
PHONE #: 937-863-7862 FAX #: 937-863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: Pace Analytical Services
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Derek Egli
SHIPPED VIA: FedExp
TRACKING #:

889343

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	Duplicate	10/02/2007 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	2-40 mL
002	TRIP BLANK	10/02/2007 12:00am	W	1	VOA	HCL	BTEX/MTBE 8260B	1-40 mL
003	MW-01	10/02/2007 07:10am	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40 mL
004	MW-03	10/02/2007 07:20am	W	3	VOA	HCL	BTEX/MTBE 8260B	
005	MW-02	10/02/2007 07:30am	W	3	VOA	HCL	BTEX/MTBE 8260B	
006	MW-06	10/02/2007 07:40am	W	3	VOA	HCL	BTEX/MTBE 8260B	
007	MW-07	10/02/2007 07:45am	W	3	VOA	HCL	BTEX/MTBE 8260B	
008	MW-10	10/02/2007 07:50am	W	3	VOA	HCL	BTEX/MTBE 8260B	
009	MW-09	10/02/2007 08:00am	W	3	VOA	HCL	BTEX/MTBE 8260B	
010	MW-08	10/02/2007 08:10am	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Derek Egli	Date 10/4/07	Time 1200	Received by laboratory: FED EX	Date	Time
Special Reporting Requirements: Job#08.75116.0340 PO#07-08-0203			Lab Notes:	Temp 2.0°C	

FED EX 10/5 1020 KQ Achm 10/5 1020

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00012586

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #: 0003642
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Timothy Wilfong
PHONE #: 937-863-7862 FAX #: 937-863-6078
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

LAB: Pace Analytical Services
CONSULTANT: ATC ASSOCIATES INC
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Derek Egli
SHIPPED VIA: FedExp
TRACKING #:

889343

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
011	MW-05	10/02/2007 08:15am	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40 mL ↓
012	MW-04	10/02/2007 08:20am	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by: | Date | Time
Relinquished by: FED EX | Date 10/5 | Time 1020
Special Reporting Requirements: Job#08.75116.0340 PO#07-08-0203

Received by: FED EX
Received by laboratory: KJ Mc
Lab Notes:

Date | Time
Date 10/5 | Time 1020
Temp 2.0°C

APPENDIX D

PURGE AND DEVELOPMENT LOGS

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	09/09/09

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	5 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	10.82	NA	23.08	3.8	18.8	Purged Dry		bleachy color, odor
MW-2	2	39.7	20.94	NA	18.76	3.1	15.3	Purged Dry		
MW-3	2	40.5	22.71	NA	17.79	2.9	14.5	Purged Dry		
MW-4	2	15.7	7.76	NA	7.94	1.3	6.5	Purged Dry		PSH odor
MW-5	2	31	8.75	NA	22.25	3.6	18.1	Purged Dry		
MW-6	2	37.6	18.47	NA	19.13	3.1	15.6	Purged Dry		
MW-7	2	18.7	7.99	NA	10.71	1.7	8.7	8.7		
MW-8	2	15	10.87	NA	4.13	0.7	3.4	Purged Dry		
MW-9	2	14.3	6.96	NA	7.34	1.2	6.0	Purged Dry		
MW-10	2	21.6	11.09	NA	10.51	1.7	8.6	Purged Dry		
MW-11	2	22	9.01	NA	12.99	2.1	10.6	10.6		

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	09/29/09

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	10.75	NA	23.15	3.8	11.3	Purged Dry	15:20	bleachy color, odor
MW-2	2	39.7	25.08	NA	14.62	2.4	7.1	7.1	16:20	
MW-3	2	40.5	26.6	NA	13.9	2.3	6.8	Purged Dry	16:30	
MW-4	2	15.7	6.19	NA	9.51	1.6	4.7	4.7	17:00	PSH odor, duplicate
MW-5	2	31	8.77	NA	22.23	3.6	10.9	Purged Dry	16:40	
MW-6	2	37.6	18.84	NA	18.76	3.1	9.2	Purged Dry	16:10	
MW-7	2	18.7	8.34	NA	10.36	1.7	5.1	5.1	16:00	
MW-8	2	15	11.02	NA	3.98	0.6	1.9	1.9	15:30	
MW-9	2	14.3	7.07	NA	7.23	1.2	3.5	Purged Dry	15:40	
MW-10	2	21.6	10.38	NA	11.22	1.8	5.5	5.5	15:50	
MW-11	2	22	9.18	NA	12.82	2.1	6.3	6.3	16:50	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

APPENDIX F
PERMITTING

State of Ohio Environmental Protection Agency

STREET ADDRESS:
Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184
www.epa.state.oh.us

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

7/16/2009

Speedway SuperAmerica LLC
Adam Campbell
500 Speedway Drive
Enon OH 45323

RECEIVED
Environmental
JUL 17 2009
SSA, LLC

Re: Approval of coverage under Ohio EPA NPDES General Permit for OHU000004
Petroleum-Related Corrective Action

Dear Permittee:

The Ohio Environmental Protection Agency has received your request for coverage under the general permit for:

SSA #3642		County:	Wood
939 Dixie Highway		City:	Rossford
Ohio EPA Facility Permit Number:	**2GU00099*AG**	U.S. EPA #:	OHGU00714
Effective date of this permit:	**8/1/2009**		

This site/facility is approved for coverage under the Ohio EPA general permit. Please use your Ohio EPA facility permit number in all future correspondence. Enclosed is a copy of the general permit regulating your discharge.

Please read and review the permit carefully. The permit contains requirements and prohibitions with which you must comply. Coverage remains in effect until after a renewal general permit is issued. We will contact you on how and when to reapply for continuing coverage.

This general permit requires the submission of Discharge Monitoring Reports (DMRs) to Ohio EPA begining with the effective date indicated above. DMRs should be submitted via the Internet using the Ohio EPA eBusiness Center e-DMR service. See the web page http://www.epa.state.oh.us/dsw/swims/eDMR/eDMR.html for instructions. If you are unable to use this service due to a demonstrable hardship, you may call the following number to request paper forms: 614-644-2050.

You may obtain current Notice of Intent (NOI), Notice of Termination (NOT) and permit transfer forms at http://www.epa.state.oh.us/dsw/permits/gpfact.html. If you need to speak to someone directly, please call:

Eric Nygaard at (614) 644-2024 or Raj Chakrabarti at (614) 644-2027

Thank you for your cooperation in this matter.

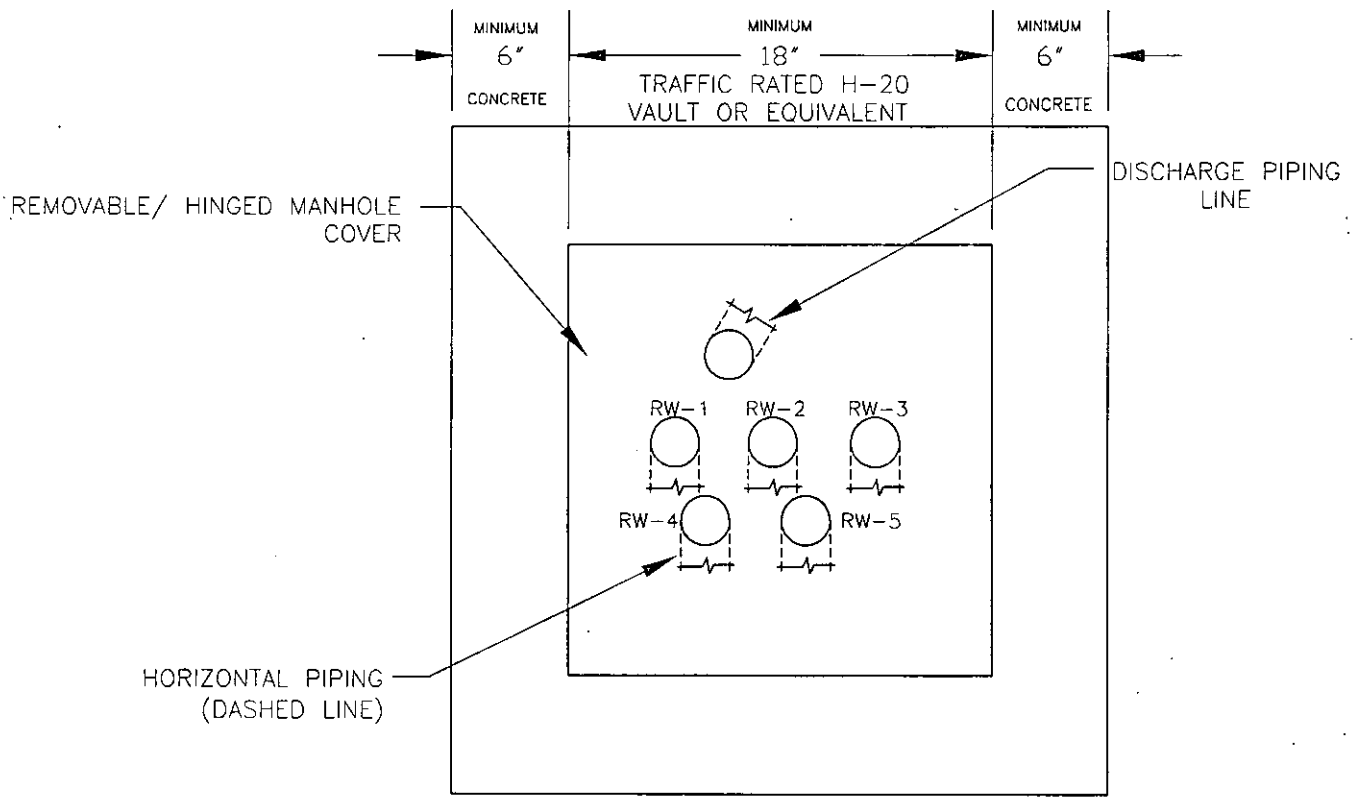
Sincerely,

Chris Korleski
Director

cc: Tebbe, Patricia
File

APPENDIX E

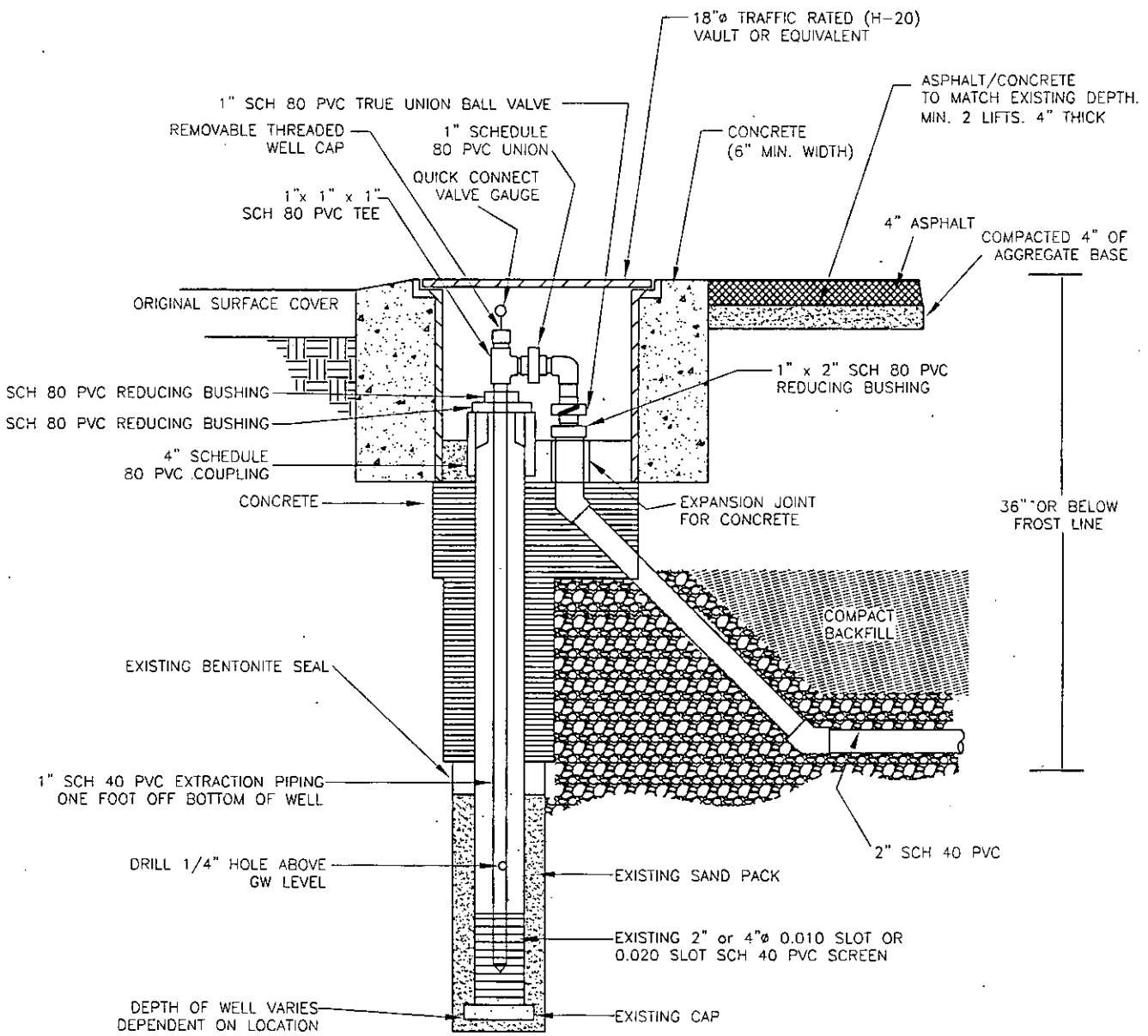
REMEDIATION SYSTEM CONSTRUCTION DETAILS/DIAGRAMS



TYPICAL MTU MANIFOLD DETAIL FROM RECOVERY WELLS

NOT TO SCALE

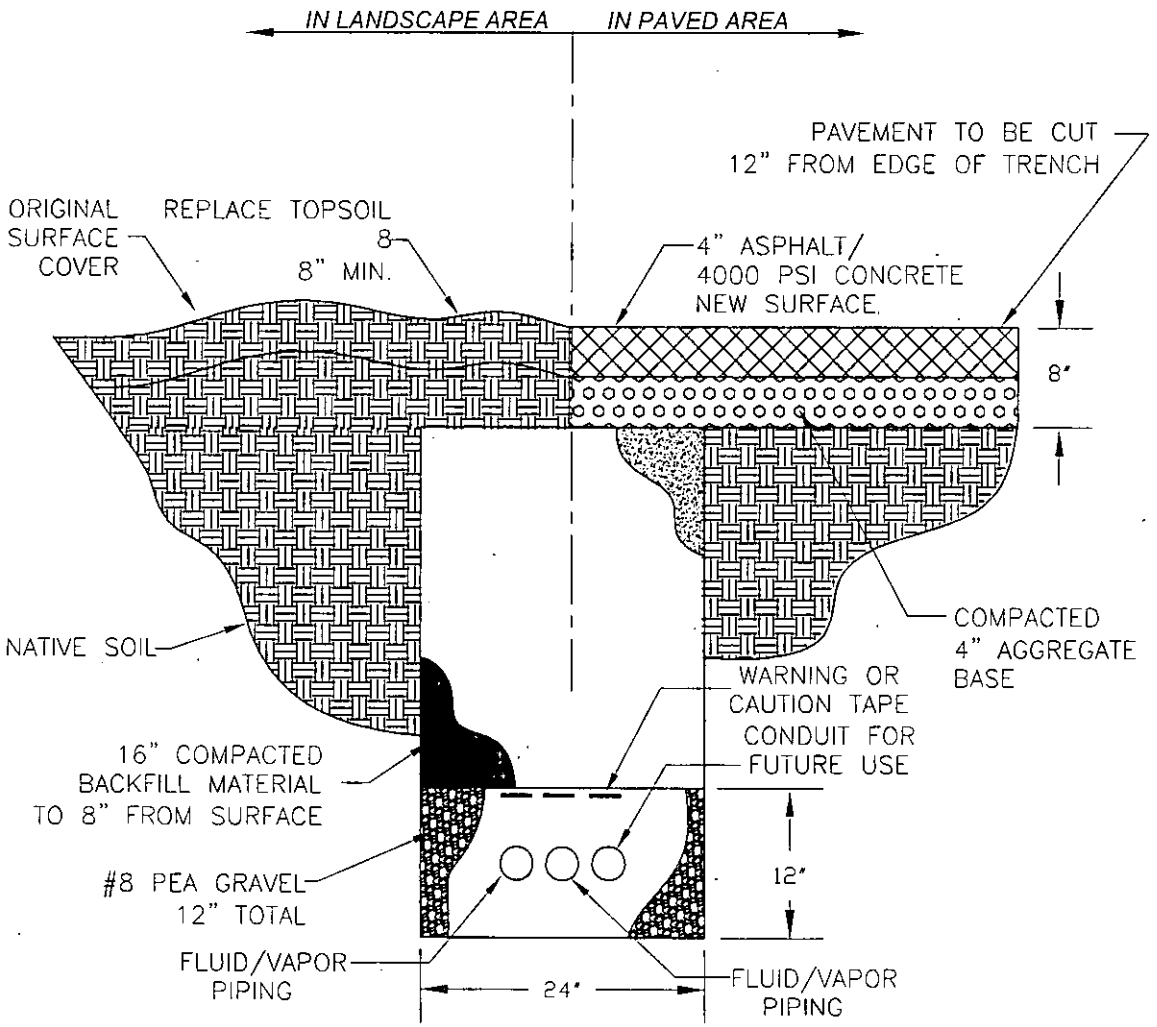
Speedway SUPERAMERICA LLC		
MTU STANDARD	RECOVERY WELL	05/18/06
DESIGNED: BKE	TYPICAL MTU MANIFOLD DETAIL FROM RECOVERY WELLS SPEEDWAY SUPERAMERICA, LLC	
DETAILED: WJC		
CHECKED: TWW	CLIENT/LOCATION: SSA, LLC/ ENON, OH	FIGURE: 7



TYPICAL HIGH VACUUM EXTRACTION WELL SYSTEM

NOT TO SCALE

Speedway SUPERAMERICA LLC		
MTU STANDARD	CONNECTION DETAILS	05/18/06
DESIGNED: BKE	TYPICAL DPHVE WELL PIPING & CONNECTION DETAILS SPEEDWAY SUPERAMERICA, LLC, ENON, OH	
DETAILED: WJC		
CHECKED: TWW	CLIENT/LOCATION: SSA, LLC/ ENON, OH	FIGURE: 5



TYPICAL MAIN TRENCH-PAVED/UNPAVED

NOTE: PIPING SHOULD BE SIZED BASED ON FLOW RATES
NOTE: TOTAL PIPE DEPTH SHOULD BE AT OR BELOW TYPICAL FROST DEPTH OF LOCATION OR REGION

NOT TO SCALE

Speedway SUPERAMERICA LLC		
MTU STANDARD	TRENCH DETAILS	05/18/06
DESIGNED KG	TYPICAL TRENCH DETAILS SPEEDWAY SUPER AMERICA, LLC, ENON, OH	
DETAILED KG		
CHECKED CJA	CLIENT/LOCATION: SSA, LLC/ ENON, OH	FIGURE: 4

ATC ASSOCIATES INC.
Engineering Individual Solutions

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

IRA COMPLETION REPORT

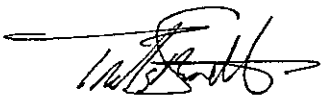
Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Ms. Jennifer Schoenlein
Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141



Travis S. Bukach, CHMM
Project Manager

Mark Samblanet
Senior Project Manager

March 25, 2010

2010 MAR 25 PM 12:01
RECEIVED
SFM/BUSTR

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1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to conduct Interim Response Action (IRA) Implementation activities at SSA Store #3642 located at 939 Dixie Highway, Rossford (Wood County), Ohio (**Figures 1** through **3**). The IRA Notificaiton dated March 31, 2009 was approved by the Bureau of Underground Storage Tank Regulation (BUSTR) in a letter dated April 15, 2009 (**Appendix A**). The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) granted cost pre-approval for the IRA activities on April 24, 2009 (**Appendix A**).

The report summarizes the results of the three-months of dual-phase recovery and a complete groundwater sampling event conducted at the site in accordance with the BUSTR approved *IRA Notification Form* dated March 2009. The IRA activities have been conducted in accordance with Ohio Administrative Code (OAC) 1301:7-9-13, effective March 31, 1999 and the BUSTR Technical Guidance Manual (2001).

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

BUSTR issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE).

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

Historical soil and groundwater result tables have been included as **Tables 1** through **4** for reference.

3.0 INTERIM RESPONSE ACTION

On September 30, 2009, an SSA owned mobile treatment unit was mobilized to the site and dual-phase recovery was initiated from the newly installed recovery well network. Details pertaining to the installation of the recovery wells, sub-grading recovery piping, electrical service installation, discharge permitting, and system start-up were summarized in the previously submitted *IRA Implementation Report* dated November 17, 2009. The following sections summarize the activities conducted during the three months of IRA system operation.

3.1 MTU Operation, Monitoring, and Maintenance

On September 30, 2009, the mobile treatment unit (MTU) was started with liquid and vapor recovery initiated from MW-5 and MW-11. The system operated continuously until January 4, 2010 when it was shut-down and removed from the site. A total of 5,129 gallons of groundwater were recovered, treated, and discharged by the MTU over the duration of the IRA (**Table 5**) which corresponds to a liquid recovery rate of 0.037 gallons per minute. Even with this relatively low recovery rate, the remediation system was able to produce a depression in the groundwater table as evidenced by a comparison of the pre-IRA potentiometric surface map (**Figure 4**) from September 29, 2009 and the potentiometric surface map generated from the data collected on November 17, 2009 (**Figure 5**). Further evidence is provided in **Figure 6** which demonstrates that groundwater drawdown of at least one foot was achieved at a distance ranging from 20 to 60 feet from the recovery wells. Liquid analytical results for the system influent and effluent have been tabulated in **Tables 6** and **7**, respectively. Copies of the analytical reports have been included in **Appendix A**. Treated groundwater was discharged to the storm sewer under an OEPA NPDES permit and copies of the monthly discharge monitoring reports have been included in **Appendix B**.

Based on system vapor effluent analytical results (**Table 8**), average air flow rates, and system run-time, an estimated 7.26 pounds of BTEX and 260 pounds of TPH were recovered via soil vapor extraction over the duration of the IRA (**Table 9**). Copies of the monthly vapor analytical reports are included in **Appendix A**. **Figure 7** illustrates that vacuum applied to MW-5 and MW-11 produced slight influence on the surrounding subsurface at a distance ranging from 15 feet to 50 feet after approximately two weeks of operation.

On January 4, 2010, the MTU was shut-down, disconnected from the recovery network, dedicated power supply, and removed from the site by Team Environmental.

3.2 Noise Survey and Mitigation

On November 2, 2009, a local resident contacted the SSA environmental department to complain of excessive noise emanating from the MTU. On November 4, 2009, an ATC technician conducted a noise survey at the property boundaries using a decibel meter. The results of the survey indicated that the noise levels at the property boundaries exceeded the allowable levels according to the City of Rossford noise ordinance guidelines. A technician from the system manufacturer, Chemviron Midwest arrived at the site in an attempt to retrofit the system with noise dampening equipment. With the equipment in place, ATC conducted another noise survey which indicated that the attempt to muffle the system noise was unsuccessful. On November 5, 2009, Team Environmental arrived at the site to connect vapor-phase carbon drums to the vapor effluent stack (attributed as the main source of system noise). With the vapor drums installed, ATC conducted a third noise survey that indicated that the system noise had been reduced to levels not exceeding the allowable limits. No additional complaints were received from the resident.

4.0 GROUNDWATER SAMPLING

In accordance with approved groundwater sampling plan outlined in the November 2009 *IRA Implementation Report*, quarterly groundwater sampling activities were initiated at the completion of the IRA groundwater recovery activities to determine if MTBE concentrations in onsite wells will decrease with respect to time. If four quarters of groundwater analytical data can demonstrate a decreasing trend in MTBE concentrations, a Tier 3 Work Plan will be prepared outlining a strategy to develop a site specific degradation rate for MTBE which will be used to develop a new site specific target level for MTBE using the BIOSCREEN fate and transport model. The following is a summary of the results for the first of four quarterly groundwater sampling events conducted at the site on January 25, 2010.

4.1 Groundwater Monitoring and Sampling

On January 25, 2010, depth to fluid measurements were collected from all on-site and off-site monitoring wells with an oil/water interface probe and referenced to the north side of the well casing (**Table 3**). Based on the measured groundwater elevations, groundwater movement across the site is to the southwest which is consistent with previous flow direction (**Figure 8**). Clean, nitrile gloves were worn between the work conducted at each well for dermal protection and to prevent possible cross-contamination.

Groundwater samples were collected from MW-1 through MW-11. Prior to sampling, all monitoring wells were purged of static water in preparation for sample collection. Purging consisted of bailing three well volumes or removing water until the wells were bailed dry. The wells were then allowed to recharge before water samples were collected. Groundwater purge and development logs can be found in **Appendix C**.

Water samples were collected with dedicated disposable bailers, and divided between three laboratory-supplied 40-milliliter vials. A trip blank and duplicate sample from MW-10 were also submitted. The samples were placed on ice in a cooler, transported under chain-of-custody procedures to Pace Analytical Laboratories (Pace) in Green Bay, Wisconsin, and analyzed for BTEX and MTBE by U.S. Environmental Protection Agency (EPA) Method 8260B. The results of the laboratory analyses have been summarized in **Tables 3** and **4** and are illustrated on **Figure 9**. The complete laboratory reports have been included in **Appendix A**.

4.2 Analytical Results

The laboratory analytical results for groundwater samples collected on January 25, 2010 indicate MTBE concentrations in MW-4, MW-5, MW-10, and MW-11 continue to exceed the Tier 2 Site Specific Target Levels (SSTLs). All other chemicals of concern remain below their respective SSTLs. As a result of the three months of dual-phase recovery, MTBE concentrations demonstrated a 12%, 11%, and 78% reduction in wells MW-5, MW-10, and MW-11 when compared with the previous sampling event. The MTBE concentration in MW-4 remained relatively unchanged.

5.0 CONCLUSIONS

As part of the IRA, dual-phase recovery was conducted at the site for approximately three months using a SSA owned MTU. While liquid recovery rates were relatively low with 5,129 gallons of groundwater recovered for the duration of the IRA, the groundwater table demonstrated significant drawdown at an effective radius ranging from 20 to 60 feet. Vapor recovery at the site was more productive with an estimated 7.26 pounds of BTEX and 260 pounds of TPH recovered over three months.

Results of the first quarterly sampling event indicated that MTBE concentrations in site wells generally showed a significant decrease when compared to the previous sampling event, assumed to be a result of the recovery efforts. Three additional quarterly groundwater sampling events are scheduled to determine if MTBE will demonstrate a decreasing trend. If a decreasing trend can be shown, then a Tier 3 Work Plan will be prepared outlining a strategy to develop a site specific degradation rate for MTBE which will be used to develop a new site specific target level for MTBE using the BIOSCREEN fate and transport model.

TABLES

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**.89**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	< 0.012	< 0.008	< 0.011	< 0.028	0.033
SP-02	SP-02	08/04/2009	16:33	< 0.012	< 0.008	< 0.011	< 0.028	< 0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	09/29/2009	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
								TRIP BLANK	01/25/2010	00:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - Remediation System Influent											**Not Available**	**Not Available**	**Not Available**	**Not Available**	**Not Available**
INFLUENT								INFLUENT	10/07/2009	14:00	< 0.230	< 0.360	< 0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	< 0.230	< 0.360	< 0.400	< 1.100	51.400
								INFLUENT	12/21/2009	15:00	< 0.390	< 0.420	< 0.410	< 1.300	44.600
Action Levels - Remediation System Effluent Water											**Not Available**	**Not Available**	**Not Available**	**Not Available**	**Not Available**
EFFLUENT								EFFLUENT	10/07/2009	14:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	11/05/2009	18:15	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								EFFLUENT	12/21/2009	15:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
								EFFLUENT	01/04/2010	18:15	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										
	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-03	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	< 26.800	2070.000	8650.000	**2430.000**
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	**2420.000**

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	< 2.000	< 3.400	< 2.700	< 13.000	**754.000**
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	< 1.900	< 2.100	< 2.100	< 6.300	**666.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-06	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	**142.000**
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	**128.000**
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	**7720.000**
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	**1660.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	< 0.410	< 0.670	< 0.540	< 2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	< 0.390	< 0.420	< 0.410	< 1.300	4.000
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**Not Available**	**Not Available**	**Not Available**	**Not Available**	**Not Available**
MID CARBON								MID CARBON	10/07/2009	14:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	11/05/2009	18:10	< 0.230	< 0.360	< 0.400	< 1.100	< 0.360
								MID CARBON	12/21/2009	15:10	< 0.390	< 0.420	< 0.410	< 1.300	< 0.380

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Air Stripper Effluent Water											**Not Available**	**Not Available**	**Not Available**	**Not Available**	**Not Available**
Action Levels - Air Stripper Effluent Water											**Not Available**	**Not Available**	**Not Available**	**Not Available**	**Not Available**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	< 0.230	< 0.360	< 0.400	< 1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	< 0.230	< 0.360	< 0.400	< 1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	< 0.390	< 0.420	< 0.410	< 1.300	1.300

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	Not Available	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	Not Available	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	Not Available	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	Not Available	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	Not Available	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	Not Available	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	Not Available	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	Not Available	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,I)perylene	Not Available	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	Not Available	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	Not Available	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	Not Available	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	Not Available	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	Not Available	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	Not Available	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	Not Available	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	Not Available	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	Not Available	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	Not Available	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	Not Available	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	Not Available	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	Not Available	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	Not Available	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	Not Available	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

TABLE 5

DISSOLVED-PHASE HYDROCARBON RECOVERY DATA

Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio

Date	Volume Treated (gallons)	Influent BTEX Concentration (mg/l)	Total Recovery (pounds)	Total Recovery to Date Beginning 6/2/2008 (pounds)
10/13/09	1,179	0.023	0.0002	0.0002
11/11/09	2,269	0.006	0.0001	0.0003
12/21/09	1,681	0.006	0.0001	0.0004
Total Gallons:	**5,129**		**Total Pounds:**	**0.0004**

NOTES:
The total dissolved-phase hydrocarbons recovered to date is determned by adding the amount of hydrocarbons recovered since the previous monitoring event to the previous total amount.

Liquid-phase hydrocarbon recovery (lb) = conc. (mg/l) × 3.785 liters × 2.205 lb / # gallons
gallon 10^6 mg

TABLE 6

INFLUENT SYSTEM WATER ANALYTICAL RESULTS

Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio

Monitoring Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes * (µg/L)	MTBE (µg/L)
Influent						
	10/13/09	<1.0	<1.0	<1.0	20.2	69.0
	11/11/09	<1.0	<1.0	<1.0	<3.0	51.4
	12/21/09	<1.0	<1.0	<1.0	<3.0	44.6

notes:

MTBE	Methyl tertiary butyl ether
NA	Not analyzed
NS	Not sampled
ug/L	Micrograms per liter
*	Total Xylenes

TABLE 7

EFFLUENT SYSTEM WATER ANALYTICAL RESULTS

Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio

Monitoring Well ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes * (mg/L)	MTBE (mg/L)	Oil & Grease (mg/L)	PAHs (mg/L)	Total Lead (mg/L)
Effluent									
	10/7/09	ND	ND	ND	ND	ND	ND	NS	1.1
	11/5/09	ND	ND	ND	ND	ND	3.0	NS	1.3
	12/21/09	ND	ND	ND	ND	ND	1.3	ND	ND
	1/4/10	ND	ND	ND	ND	ND	ND	ND	ND
BUSTR Action Levels		**5.0**	**1,000**	**700**	**10,000**	**40**			

notes:

MTBE	Methyl tertiary butyl ether
NA	Not analyzed
NS	Not sampled
ND	Analytical results are below laboratory detection limits
ug/L	Micrograms per liter
*	Total Xylenes

TABLE 8

EFFLUENT AIR ANALYTICAL RESULTS

Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes * (µg/L)	TPH/GRO (µg/L)
Effluent	10/26/09	6.82	11.10	1.24	2.96	1020
	11/17/09	0.88	3.18	0.44	4.63	107
	12/21/09	2.27	4.98	<0.44	3.12	344

notes:

MTBE	Methyl tertiary butyl ether
NA	Not analyzed
NS	Not sampled
ug/L	Micrograms per liter
*	Total Xylenes

TABLE 9

SOIL VAPOR EXTRACTION TREATMENT SYSTEM PERFORMANCE

Speedway SuperAmerica #3642
939 Dixie Highway
Rossford, Ohio

Sample Date	Average Air Flow Rate (scfm)	Total BTEX (mg/L)	Recovery Rate (lbs/hour)	Recovery Rate (lbs/day)	Number of Days	Percent Up-Time	Hydrocarbon Recovery (lbs)	Cumulative Hydrocarbon Recovery (lbs)
10/26/09	64	0.022	0.0053	0.127	31	100%	3.95	3.95
11/17/09	63	0.009	0.0021	0.051	30	100%	1.54	5.49
12/21/09	63	0.010	0.0024	0.057	31	100%	1.77	7.26
							Estimated total recovered hydrocarbons (lbs):	**7.26**

Sample Date	Average Air Flow Rate (scfm)	TPH (mg/L)	Recovery Rate (lbs/hour)	Recovery Rate (lbs/day)	Number of Days	Percent Up-Time	Hydrocarbon Recovery (lbs)	Cumulative Hydrocarbon Recovery (lbs)
10/26/09	64	1.020	0.245	5.87	31	100%	182.0	182.04
11/17/09	63	0.107	0.025	0.606	30	100%	18.2	200.23
12/21/09	63	0.344	0.081	1.95	31	100%	60.4	260.66
							Estimated total recoverable hydrocarbons (lbs):	**260.66**

scfm - standard cubic feet per minute
mg/L - milligrams per liter
* - Analysis not collected; total BTEX and TPH from previous event utilized for calculations.

NOTE 1: From June through October 2008, the meter used to collect air flow rates was giving erroneously high readings. However, because this was not determined until November 2008, the collected air flow rates were utilized for calculations which provided conservative results.

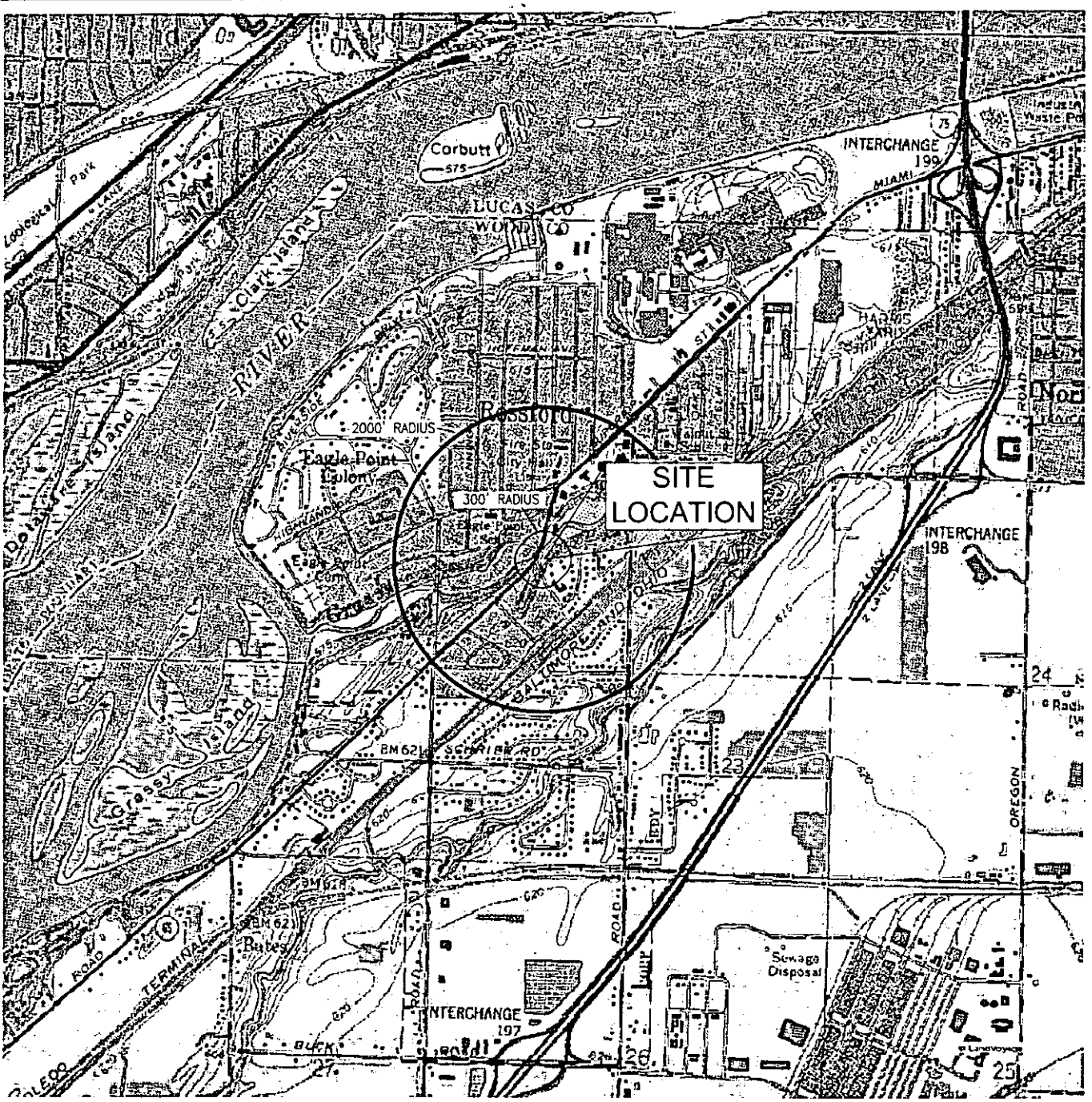
NOTE 2: If the BTEX results were below method detection limits, the detection limit was utilized in the recovery calculations.

Cumulative Recovery Calculations:

lbs of discharge/min = BTEX concentration in (mg/l) * (10^-3 g/mg) * Flow Rate (CFM) * (28.33 L/ft^3) * (0.002205 lbs/gram).

Cumulative Recovery = recovery rate lbs/min * 60 minutes/1hr * 24 hours/1 day * number of days in period * operational percentage

FIGURES



USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

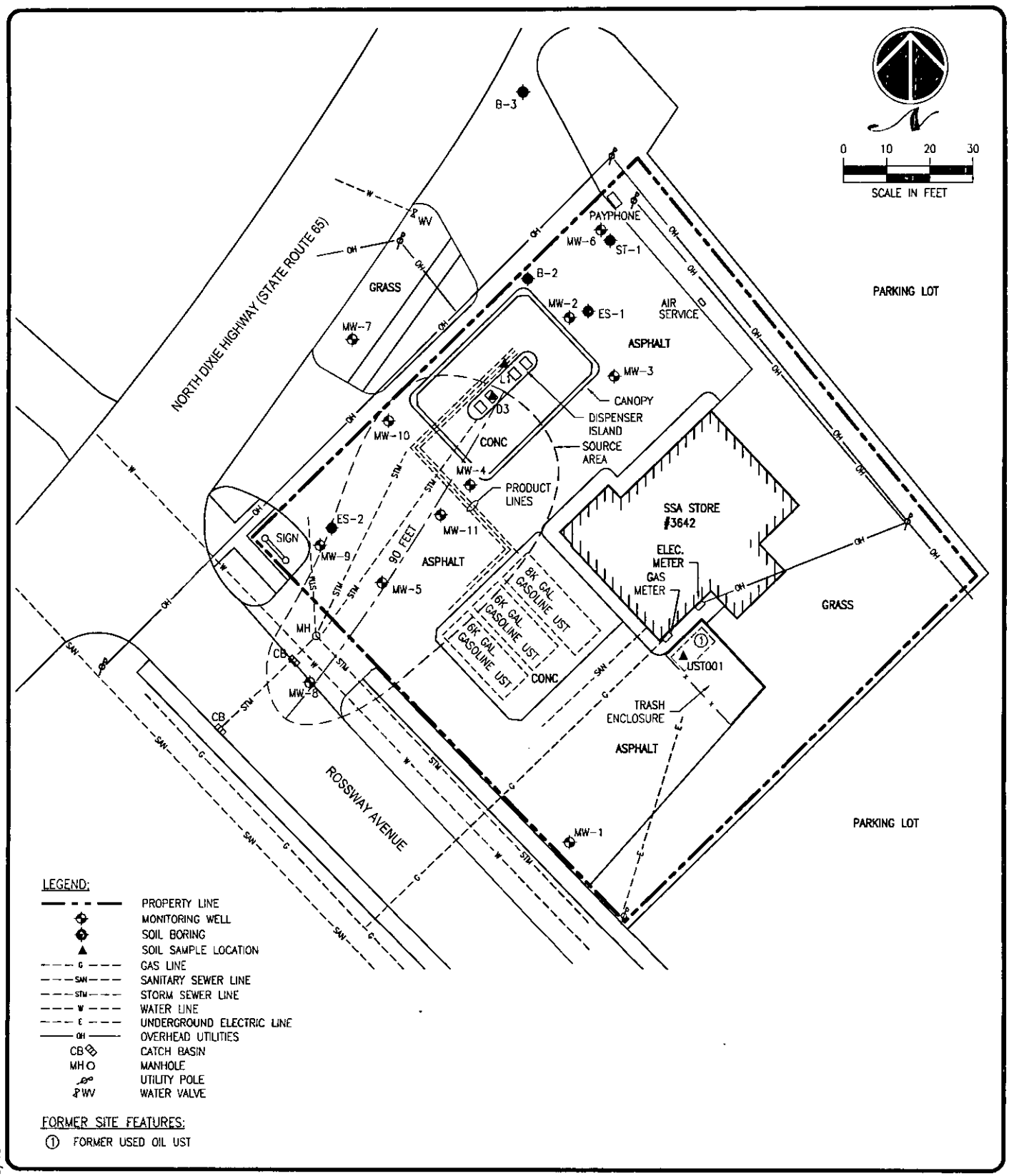
VATC ASSOCIATES INC.

DATE: 8/22/09	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: PC	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...SSA3642-SLM.DWG 11/10/06



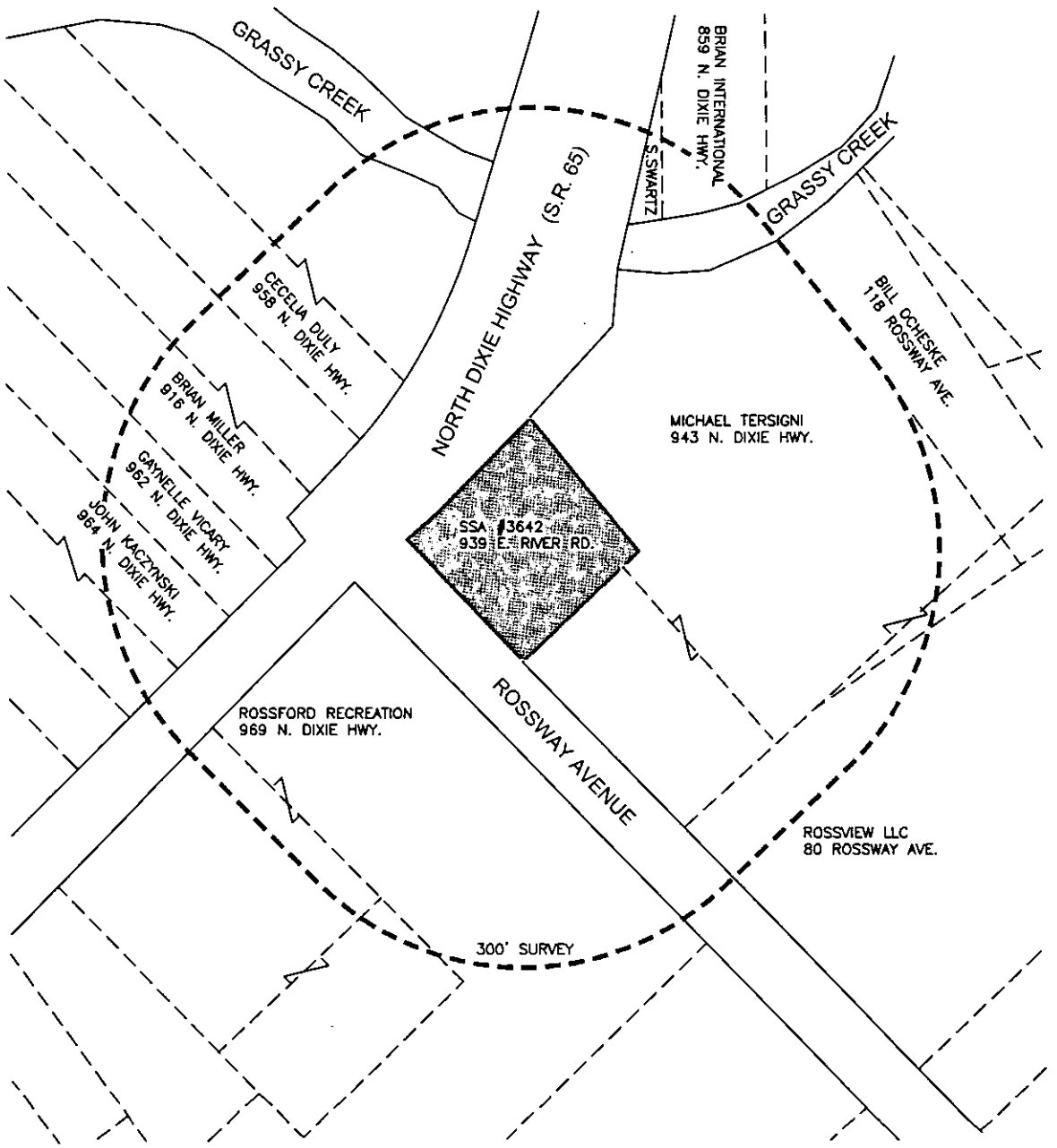
...SSA3642-04.dwg 3/18/10

VATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 008.75116.0612
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



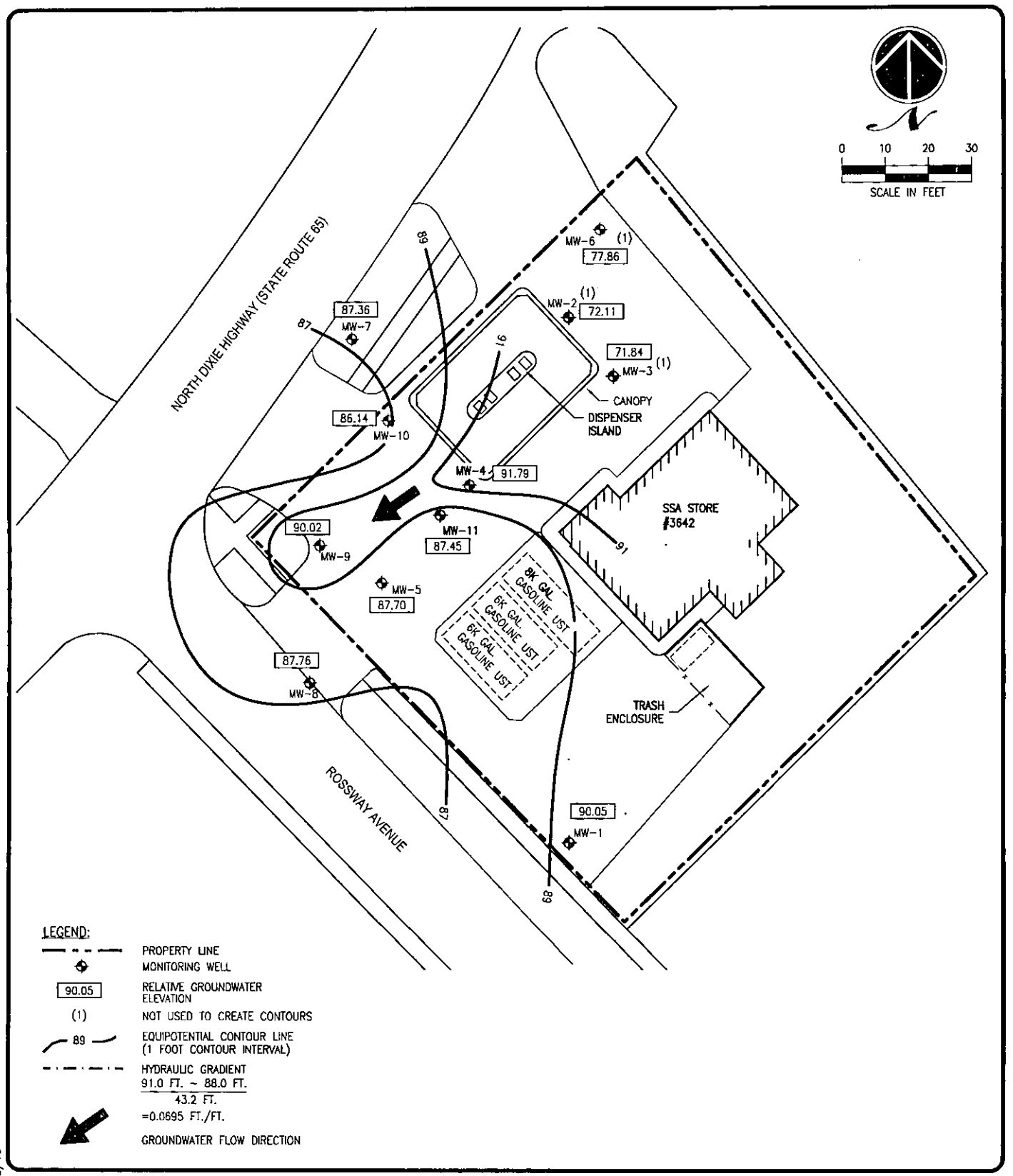
SURROUNDING PROPERTIES MAP

SSA #3642
939 Dixie Highway
Rossford, Ohio

PROJECT NO.: 08.75116.0057

FIGURE 3

ATC ASSOCIATES INC.



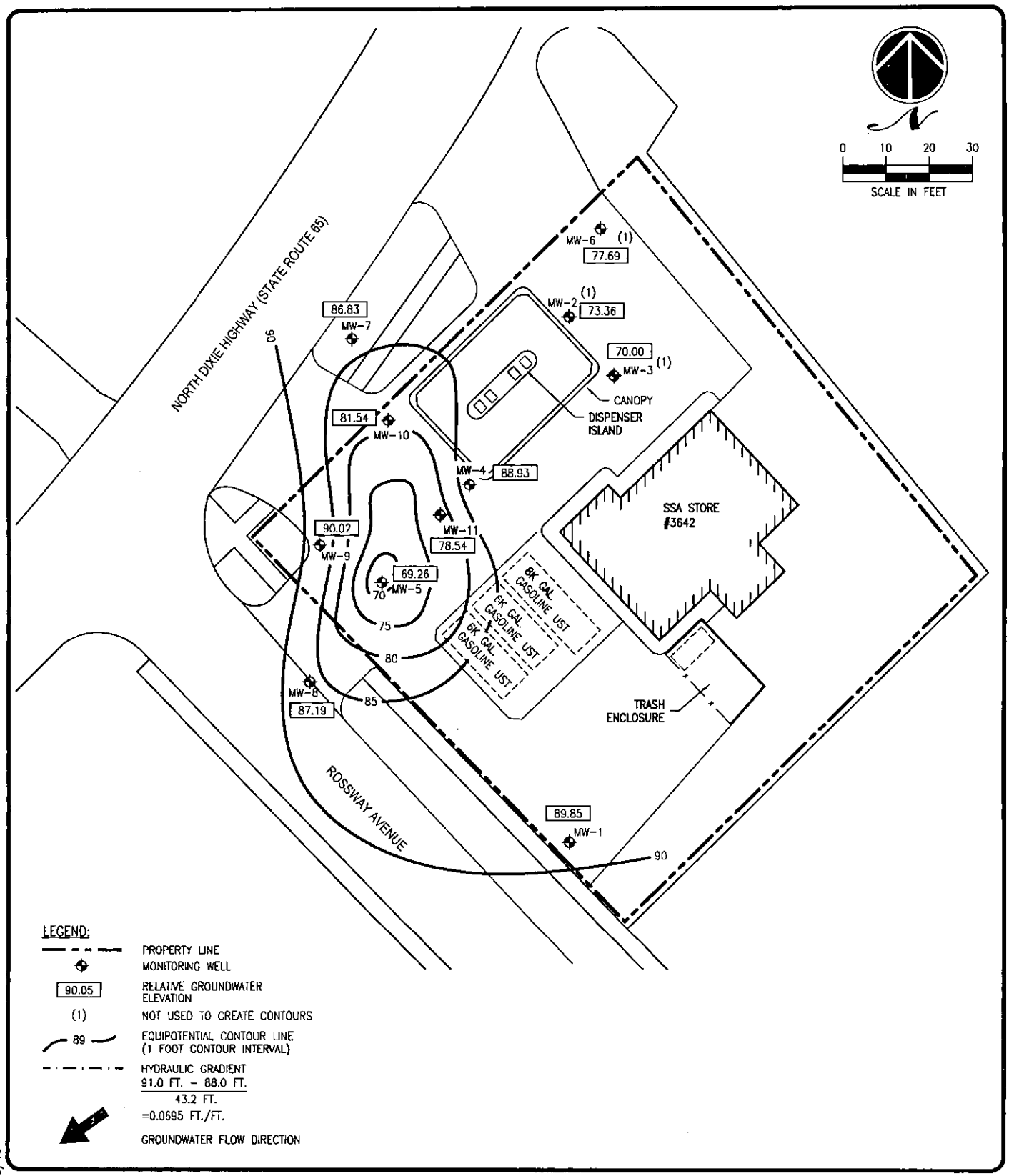
ATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 08.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 4

POTENTIOMETRIC SURAFCE MAP
SEPTEMBER 29, 2009

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...SSA3642-04.dwg 3/18/10



3/18/10

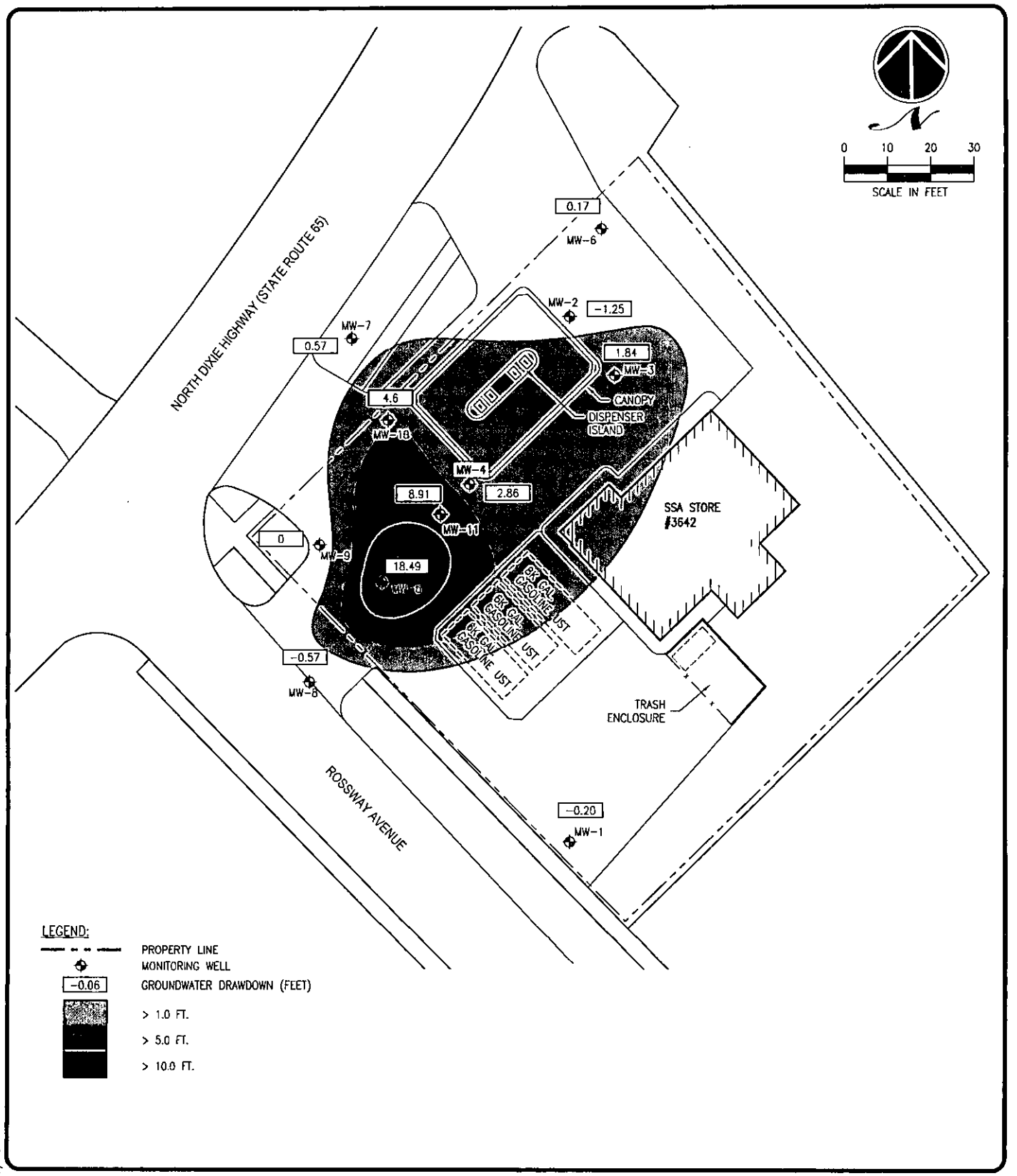
...SSA3642-04.dwg

ATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 08.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 5

POTENTIOMETRIC SURAFCE MAP
NOVEMBER 17, 2009

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



3/18/10

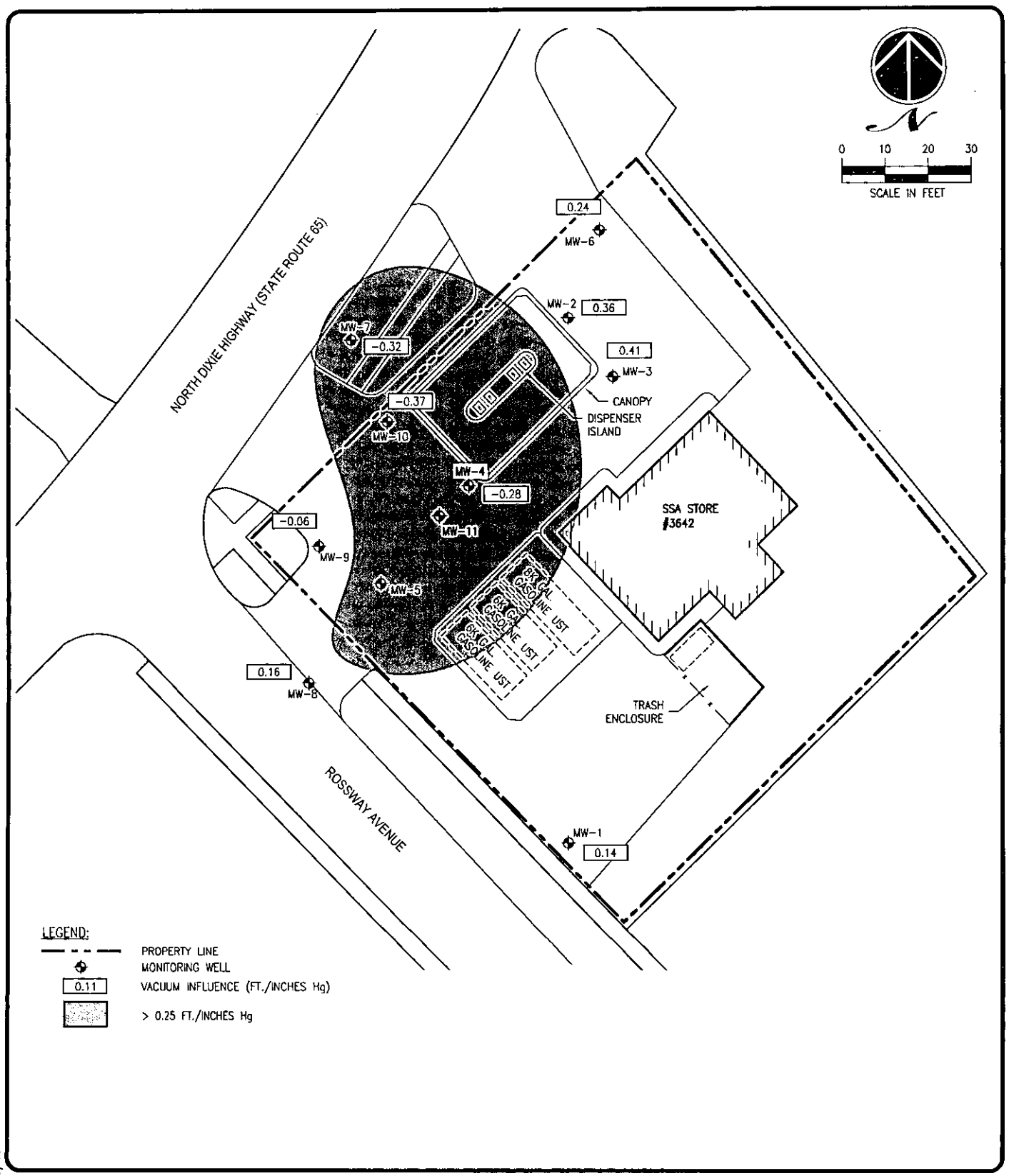
...SSA3642-04.dwg

ATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 08.75116.0557	
DRAWN BY: SBM	SCALE: 1" = 30'	
REVIEWED BY: TSB	FIGURE 6	

GROUNDWATER DRAWDOWN MAP
SEPT 9, 09 - NOV 17, 2009

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



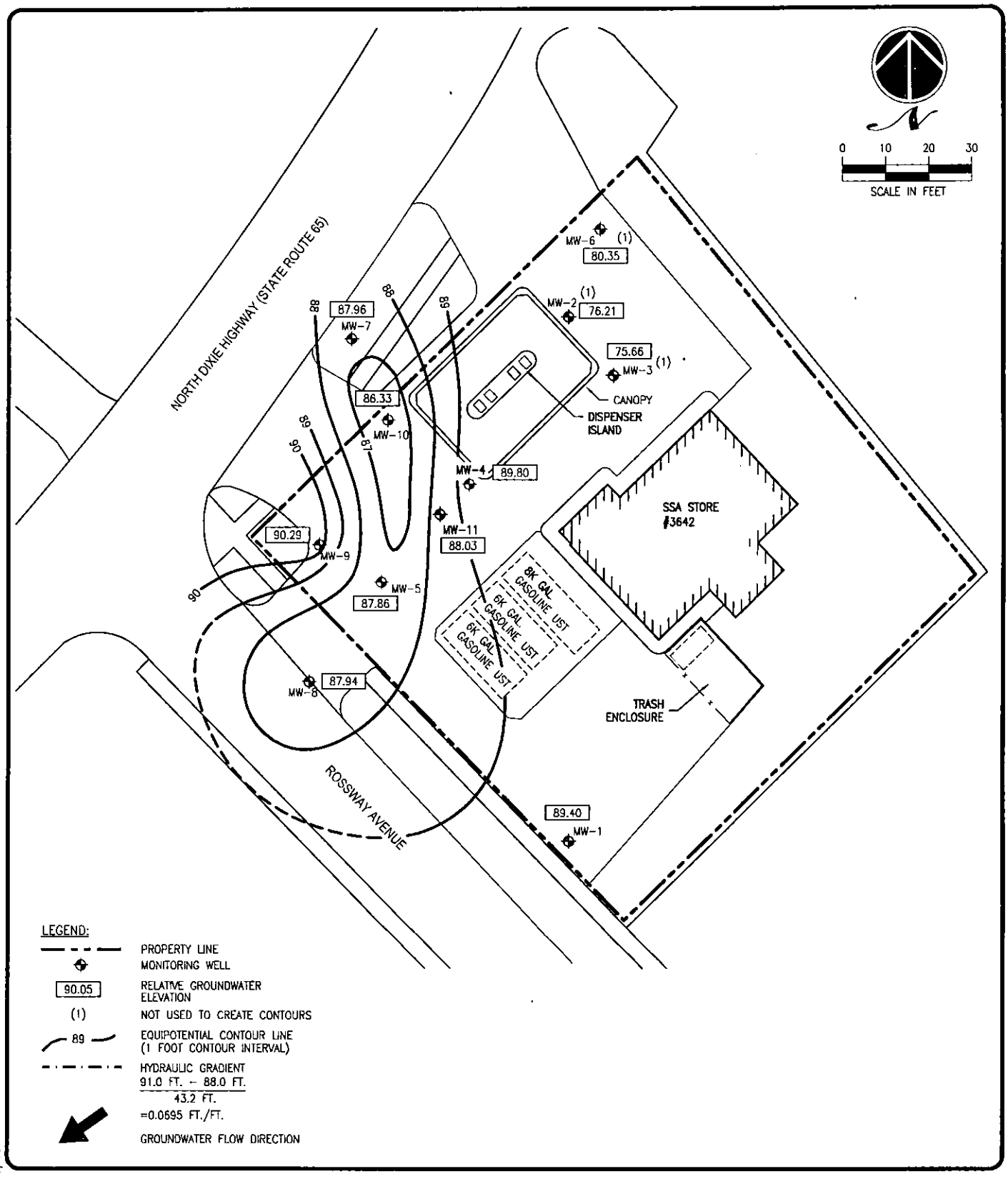
...SSA3642-04.dwg 3/18/10

ATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 08.75116.0557	
DRAWN BY: SBM	SCALE: 1" = 30'	
REVIEWED BY: TSB	FIGURE 7	

VACUUM INFLUENCE MAP
OCTOBER 15, 2009

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



3/18/10

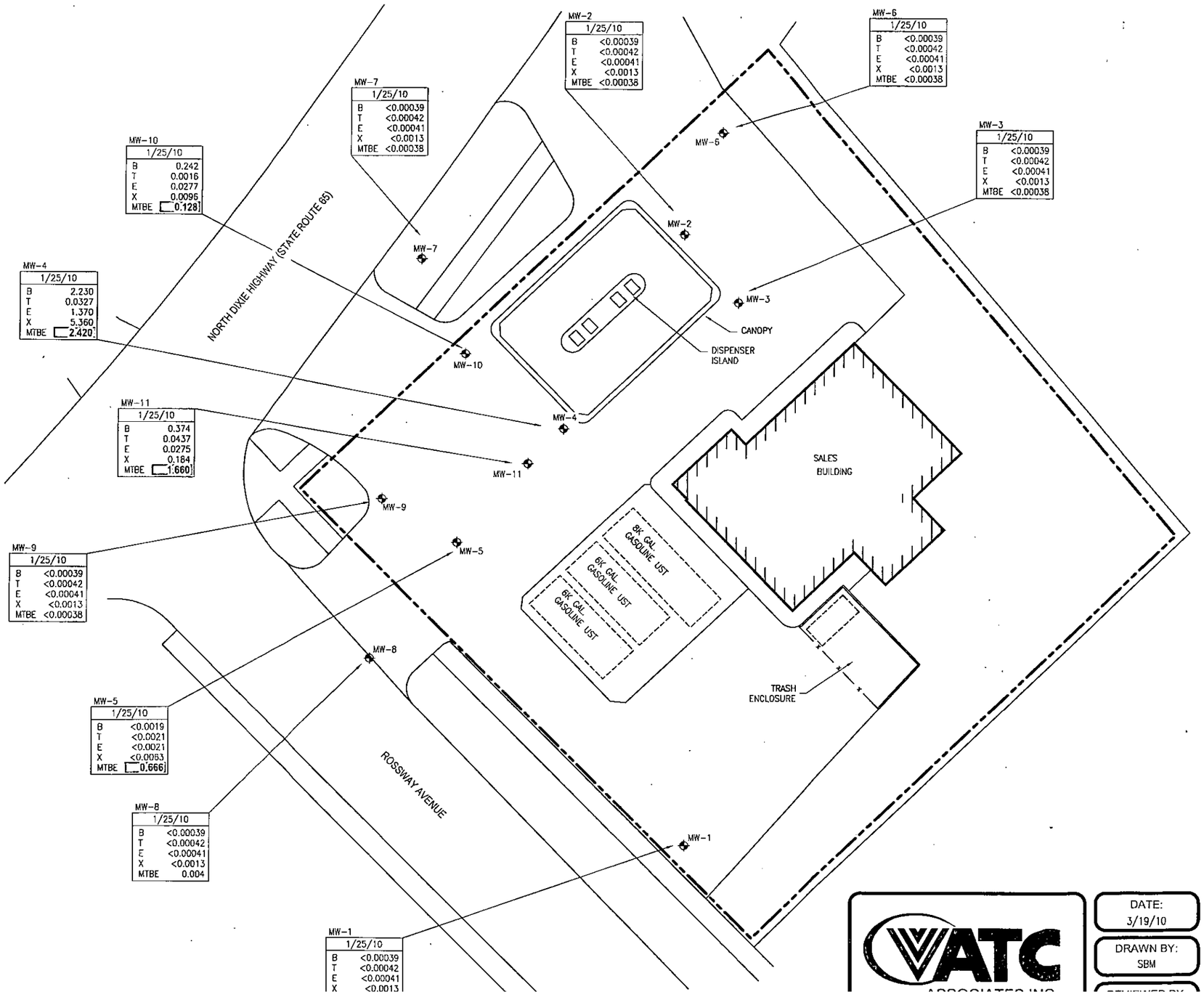
...SSA3642-04.dwg

VATC ASSOCIATES INC.

DATE: 3/19/10	PROJECT NO.: 08.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: TSB	FIGURE 8

POTENTIOMETRIC SURAFCE MAP
JANUARY 25, 2010

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



GROUNDWATER ANALYTICAL MAP
JANUARY 25, 2010

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY

ATC ASSOCIATES INC.

DATE: 3/19/10
DRAWN BY: SBM
PROJECT NO.: 008.75116.0557
SCALE: 1" = 20'

8635-04.dwg 3/18/10

APPENDIX A

GOVERNMENT CORRESPONDENCE

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 E Main St. • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.ohio.gov

Ted Strickland
Governor

Kimberly A. Zurz
Director

RECEIVED
Environmental
APR 20 2009
SSA, LLC

April 15, 2009

ADAM CAMPBELL
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: INTERIM RESPONSE ACTION

Dear Mr. Campbell:

The Bureau of Underground Storage Tank Regulations (BUSTR) received your letter dated March 31, 2009 notifying BUSTR that you plan to perform Interim Response Actions at the site listed above.

Based on the information submitted, BUSTR approves the activities outlined in your letter. Please perform all IRA activities and submit all reports in accordance with OAC 1301:7-9-13, effective March 1999.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at www.com.state.oh.us/sfm/bust *or* by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 614-728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
Cindy Duann - PUSTRCB
Mark Samblanet - ATC
Travis Bukach - ATC

Petroleum Underground Storage Tank Release Compensation Board

P.O. Box 163188 • Columbus, Ohio 43216-3188
Phone: (614) 752-8963 • Fax: (614) 752-8397
www.petroboard.com

RECEIVED
Environmental
APR 2 7 2009
SSA, LLC

April 24, 2009

Mr. Adam Campbell
Speedway SuperAmerica LLC
P.O. Box 1500
Springfield, OH 45501

CLAIM NUMBER: 3567-305/02/27/97
RELEASE #: 87000087-N00002
RELEASE SITE ADDRESS:
SSA #3642
939 East River Rd.
Rossford, OH 43460
IRA/MP COST SUBMISSION DATE: 4/3/09

Dear Mr. Campbell:

The cost pre-approval request for an Interim Response Action (IRA) followed by one year of groundwater monitoring for the above-referenced site has been reviewed. The proposed work includes a baseline groundwater sampling event of 10 monitoring wells; permitting; conversion of an existing monitoring well into a recovery well and installation of a new recovery well; subgrade/vault installation; an electrical power drop; three months of liquid recovery via a rented high vacuum dual-phase recovery mobile treatment unit (MTU); preparation of an IRA implementation report with a monitoring plan; four quarterly groundwater sampling events; and preparation of an IRA completion report with a Tier 3 work plan. The cost estimate for the proposed work totals $81,894 ($67,682 + $14,212).

For the reasons set forth below, the cost estimate is granted preliminary approval with modification for $80,914 and under the following condition:

- The cost estimate inadvertently includes "24" samples at $75 each and "20" disposable bailers at $8 each for the proposed baseline groundwater sampling event of 10 existing monitoring wells. Based on the additional information received from ATC Associates Inc. on April 22, 2009, the correct numbers should be 12 samples and 10 bailers. Therefore, a reduction of $980 [(24 – 12) x $75 + (20 – 10) x $8] is reflected in the pre-approved amount.

- Included in the cost estimate are MTU rental charges of $15,000 based on $5,000 per month for three months. In accordance with an April 22, 2009 e-mail from ATC Associates, SSA will use a less expensive Kemron trailer (at $3,500 per month) if one is available when this IRA is implemented.

Please be advised that when a claim is filed, the costs will be evaluated based upon the actual costs as verified by the claim's documentation. At that time please be certain the invoices are broken down on a time and material basis and you have included all subcontractor (e.g., laboratory, driller, equipment, etc.) invoices. Only those actual costs which are documented and eligible in accordance with the Board's rules will be reimbursed.

Only the work described in the IRA/MP has been reviewed. Any work that is performed beyond that described may affect our evaluation. If this IRA/MP is revised in anyway, please contact this office

immediately. **Reimbursement of IRA/MP implementation costs submitted in a claim without cost pre-approval will be limited to no greater than 50% of the usual, customary and reasonable costs of the least expensive remedial alternative based on the Fund's experience.**

If you have any questions, please contact Cindy Duann or me at (614) 752-8963 or (800) 224-4659.

Sincerely,

Starr Richmond

Starr J. Richmond
Director
Financial Assurance Fund

cc: Travis Bukach, ATC Associates Inc., 10020 Brecksville Road, Brecksville, OH 44141

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 22, 2009

Mark Samblanet
ATC Associates
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: 0003642
Pace Project No.: 4023873

Dear Mark Samblanet:
Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 0003642
Pace Project No.: 4023873

Minnesota Certification IDs

Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Kentucky Certification #: 83
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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(920)469-2436

SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4023873

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4023873001	INFLUENT	Water	10/07/09 14:00	10/13/09 09:45
4023873002	POST AIR STRIPPER	Water	10/07/09 14:05	10/13/09 09:45
4023873003	MID CARBON	Water	10/07/09 14:10	10/13/09 09:45
4023873004	EFFLUENT	Water	10/07/09 14:15	10/13/09 09:45

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4023873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4023873001	**INFLUENT**	EPA 8021	SES	6	PASI-G
4023873002	**POST AIR STRIPPER**	EPA 8021	SES	6	PASI-G
4023873003	**MID CARBON**	EPA 8021	SES	6	PASI-G
4023873004	**EFFLUENT**	EPA 1664 OG	MJS	1	PASI-M
		EPA 6020	DS1	1	PASI-G
		EPA 8021	SES	6	PASI-G

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4023873

Sample: INFLUENT **Lab ID: 4023873001** Collected: 10/07/09 14:00 Received: 10/13/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		10/15/09 09:57	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/15/09 09:57	100-41-4	
Methyl-tert-butyl ether	**69.0**	ug/L	1.0	1		10/15/09 09:57	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		10/15/09 09:57	108-88-3	
Xylene (Total)	**20.2**	ug/L	3.0	1		10/15/09 09:57	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120	1		10/15/09 09:57	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4023873

Sample: POST AIR STRIPPER **Lab ID: 4023873002** Collected: 10/07/09 14:05 Received: 10/13/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		10/15/09 10:23	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/15/09 10:23	100-41-4	
Methyl-tert-butyl ether	**4.0**	ug/L	1.0	1		10/15/09 10:23	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		10/15/09 10:23	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/15/09 10:23	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120	1		10/15/09 10:23	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4023873

Sample: MID CARBON **Lab ID: 4023873003** Collected: 10/07/09 14:10 Received: 10/13/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		10/15/09 10:48	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/15/09 10:48	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		10/15/09 10:48	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		10/15/09 10:48	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/15/09 10:48	1330-20-7	
a,a,a-Trifluorotoluene (S)	98	%	80-120	1		10/15/09 10:48	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4023873

Sample: EFFLUENT **Lab ID: 4023873004** Collected: 10/07/09 14:15 Received: 10/13/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		10/15/09 11:14	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/15/09 11:14	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		10/15/09 11:14	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		10/15/09 11:14	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/15/09 11:14	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120	1		10/15/09 11:14	98-08-8	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Lead	**1.1**	ug/L	1.0	1	10/14/09 09:50	10/20/09 01:23	7439-92-1	
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	**<2.5**	mg/L	5.0	1		10/20/09 16:10		

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4023873

QC Batch: MPRP/3178
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 4023873004

METHOD BLANK: 220874 Matrix: Water
Associated Lab Samples: 4023873004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	10/20/09 00:57	

LABORATORY CONTROL SAMPLE: 220875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	508	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 220876 220877

Parameter	Units	4023873004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	1.1	500	500	518	513	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4023873

QC Batch: GCV/4136 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4023873001, 4023873002, 4023873003, 4023873004

METHOD BLANK: 221320 Matrix: Water
Associated Lab Samples: 4023873001, 4023873002, 4023873003, 4023873004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	10/15/09 08:15	
Ethylbenzene	ug/L	<1.0	1.0	10/15/09 08:15	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	10/15/09 08:15	
Toluene	ug/L	<1.0	1.0	10/15/09 08:15	
Xylene (Total)	ug/L	<3.0	3.0	10/15/09 08:15	
a,a,a-Trifluorotoluene (S)	%	99	80-120	10/15/09 08:15	

LABORATORY CONTROL SAMPLE & LCSD: 221321 221322

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	20.9	20.9	105	104	80-120	.4	20	
Ethylbenzene	ug/L	20	19.8	19.6	99	98	80-120	.7	20	
Methyl-tert-butyl ether	ug/L	20	19.7	19.6	99	98	80-120	.9	20	
Toluene	ug/L	20	20.2	20.2	101	101	80-120	.08	20	
Xylene (Total)	ug/L	60	59.7	59.4	99	99	80-120	.5	20	
a,a,a-Trifluorotoluene (S)	%				98	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 221465 221466

Parameter	Units	4023922004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	366	100	100	467	459	101	93	28-167	2	20	
Ethylbenzene	ug/L	857	100	100	951	930	94	73	51-151	2	20	
Methyl-tert-butyl ether	ug/L	6.1	100	100	99.8	100	94	94	77-120	.7	20	
Toluene	ug/L	71.0	100	100	170	171	99	100	54-151	.08	20	
Xylene (Total)	ug/L	1210	300	300	1490	1460	92	84	29-164	2	20	
a,a,a-Trifluorotoluene (S)	%						103	103	80-120			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4023873

QC Batch: WET/17469 Analysis Method: EPA 1664 OG
QC Batch Method: EPA 1664 OG Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 4023873004

METHOD BLANK: 699362 Matrix: Water
Associated Lab Samples: 4023873004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	<2.6	5.3	10/20/09 16:10	

LABORATORY CONTROL SAMPLE & LCSD: 699363 699364

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	42.1	35.2	34.0	83	81	78-114	3	18	

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(920)469-2436

QUALIFIERS

Project: 0003642
Pace Project No.: 4023873

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: WET/17469

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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4023873

Page 1 of 1 **Chain-of-Custody-Record** **COC ID # 00019462**

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Adam Campbell
PHONE #: O:937-863-7391 x7391 FAX #: Fax: 937-863-6078
"DIRECT STATE PAY SITE"
CODE: 44 - Operation, Maintenance, and Monitoring
TYPE: L - Analytical

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Mark Samblanet ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141-3219
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Randy Good
SHIPPED VIA: FedExp
TRACKING #:

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	INFLUENT	10/07/2009 02:00pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	2-40ML VOA
002	POST AIR STRIPPER	10/07/2009 02:05pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
003	MID CARBON	10/07/2009 02:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
004	EFFLUENT	10/07/2009 02:15pm	W	4	1LG	H2SO4	OIL & GREASE \ TPH 1664	500MOD, 1-1LAGB
					250 ML	HNO3	Total Lead 6020A	
					VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by: [signature] Date 10/13/09 Time 1800
Relinquished by: FedEx Date 10/13/09 Time 945
Special Reporting Requirements: None

Received by:
Received by laboratory: [signature] Date 10/13/09 Time 945
Lab Notes: Temp 0.5°

Sample Condition Upon Receipt

Pace Analytical

Client Name: ATC Project # 4023873

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Custody Seal on Samples Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [X] Bubble Bags [ ] None Other

Optional: Proj. Due Date: Proj. Name:

Thermometer Used JB Type of Ice: (Wet) Blue Dry None [ ] Samples on ice, cooling process has begun

Cooler Temperature 0.5° Biological Tissue is Frozen: [ ] yes [ ] no

Temp Blank Present: [X] yes [ ] no

Person examining contents: Date: 10/13/09 Initials: MRN

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[X] Yes [ ] No [ ] N/A	7. 5 day TAT
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[ ] Yes [X] No [ ] N/A	12. COC says Oil & Grease volume is H_2SO_4 preserved. Volume rec'd is HCl preserved.
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	[X] Yes [ ] No [ ] N/A	MRN 10/13/09 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[X] Yes [ ] No [ ] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ] Yes [ ] No	Initial when completed MRN Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [X] No [ ] N/A	15.
Trip Blank Present:	[ ] Yes [X] No [ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JLM **Date:** 10/13/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 18, 2009

Mark Samblanet
ATC Associates
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: 0003642
Pace Project No.: 4025206

Dear Mark Samblanet:
Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4025206

Minnesota Certification IDs

Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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(920)469-2436

SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4025206

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4025206001	INFLUENT	Water	11/05/09 18:00	11/11/09 09:55
4025206002	POST AIR STRIPPER	Water	11/05/09 18:05	11/11/09 09:55
4025206003	MID CARBON	Water	11/05/09 18:10	11/11/09 09:55
4025206004	EFFLUENT	Water	11/05/09 18:15	11/11/09 09:55

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4025206

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4025206001	**INFLUENT**	EPA 8021	SES	6	PASI-G
4025206002	**POST AIR STRIPPER**	EPA 8021	SES	6	PASI-G
4025206003	**MID CARBON**	EPA 8021	SES	6	PASI-G
4025206004	**EFFLUENT**	EPA 1664 OG	MJS	1	PASI-M
		EPA 6020	DS1	1	PASI-G
		EPA 8021	SES	6	PASI-G

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4025206

Sample: INFLUENT **Lab ID: 4025206001** Collected: 11/05/09 18:00 Received: 11/11/09 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/12/09 16:14	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/12/09 16:14	100-41-4	
Methyl-tert-butyl ether	**51.4**	ug/L	1.0	1		11/12/09 16:14	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/12/09 16:14	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/12/09 16:14	1330-20-7	
a,a,a-Trifluorotoluene (S)	98	%	80-120	1		11/12/09 16:14	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4025206

Sample: POST AIR STRIPPER **Lab ID: 4025206002** Collected: 11/05/09 18:05 Received: 11/11/09 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/12/09 16:40	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/12/09 16:40	100-41-4	
Methyl-tert-butyl ether	**3.0**	ug/L	1.0	1		11/12/09 16:40	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/12/09 16:40	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/12/09 16:40	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120	1		11/12/09 16:40	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4025206

Sample: MID CARBON **Lab ID: 4025206003** Collected: 11/05/09 18:10 Received: 11/11/09 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/12/09 17:05	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/12/09 17:05	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		11/12/09 17:05	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/12/09 17:05	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/12/09 17:05	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120	1		11/12/09 17:05	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4025206

Sample: EFFLUENT **Lab ID: 4025206004** Collected: 11/05/09 18:15 Received: 11/11/09 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		11/12/09 17:31	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		11/12/09 17:31	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		11/12/09 17:31	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		11/12/09 17:31	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		11/12/09 17:31	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120	1		11/12/09 17:31	98-08-8	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Lead	**1.3**	ug/L	1.0	1	11/12/09 10:20	11/13/09 02:46	7439-92-1	
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	**3.0J**	mg/L	5.0	1		11/17/09 10:16		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4025206

QC Batch: GCV/4272 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4025206001, 4025206002, 4025206003, 4025206004

METHOD BLANK: 233942 Matrix: Water
Associated Lab Samples: 4025206001, 4025206002, 4025206003, 4025206004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	11/12/09 10:39	
Ethylbenzene	ug/L	<1.0	1.0	11/12/09 10:39	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	11/12/09 10:39	
Toluene	ug/L	<1.0	1.0	11/12/09 10:39	
Xylene (Total)	ug/L	<3.0	3.0	11/12/09 10:39	
a,a,a-Trifluorotoluene (S)	%	100	80-120	11/12/09 10:39	

LABORATORY CONTROL SAMPLE & LCSD: 233943 233944

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.4	21.4	107	107	80-120	.05	20	
Ethylbenzene	ug/L	20	20.9	21.1	105	105	80-120	.6	20	
Methyl-tert-butyl ether	ug/L	20	19.8	20.8	99	104	80-120	5	20	
Toluene	ug/L	20	20.9	20.8	105	104	80-120	.8	20	
Xylene (Total)	ug/L	60	61.7	62.3	103	104	80-120	.9	20	
a,a,a-Trifluorotoluene (S)	%				99	98	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 234526 234527

Parameter	Units	4025216007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	125	200	200	337	325	106	100	28-167	4	20	
Ethylbenzene	ug/L	25.3	200	200	243	240	109	107	51-151	1	20	
Methyl-tert-butyl ether	ug/L	1100	200	200	1190	1080	47	-7	77-120	9	20	M0
Toluene	ug/L	127	200	200	337	325	105	99	54-151	4	20	
Xylene (Total)	ug/L	76.1	600	600	713	702	106	104	29-164	1	20	
a,a,a-Trifluorotoluene (S)	%						100	100	80-120			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4025206

QC Batch: MPRP/3347
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 4025206004

METHOD BLANK: 233991
Matrix: Water
Associated Lab Samples: 4025206004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/13/09 02:34	

LABORATORY CONTROL SAMPLE: 233992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	494	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 233993 233994

Parameter	Units	4025206004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	1.3	500	500	495	484	99	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4025206

QC Batch: WET/17706
QC Batch Method: EPA 1664 OG
Analysis Method: EPA 1664 OG
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 4025206004

METHOD BLANK: 714513 Matrix: Water
Associated Lab Samples: 4025206004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	<2.6	5.3	11/17/09 10:16	

LABORATORY CONTROL SAMPLE: 714514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	42.1	33.8	80	78-114	

MATRIX SPIKE SAMPLE: 714732

Parameter	Units	10116278001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	46.0	43	78.8	76	78-114	M0

SAMPLE DUPLICATE: 714733

Parameter	Units	10116327001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	3.5J		18	

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Green Bay, WI 54302
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QUALIFIERS

Project: 0003642
Pace Project No.: 4025206

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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4025206

Page 1 of 1 **Chain-of-Custody-Record** **COC ID # 00019716**

TURN AROUND TIME: STANDARD

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Adam Campbell
PHONE #: O:937-863-7391 x7391 FAX #: Fax: 937-863-6078
DIRECT STATE PAY SITE
CODE: 44 - Operation, Maintenance, and Monitoring
TYPE: L - Analytical

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Mark Samblanet ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141-3219
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Randy Good
SHIPPED VIA: FedExp
TRACKING #:

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	INFLUENT	11/05/2009 06:00pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	2-40mlB
002	POST AIR STRIPPER	11/05/2009 06:05pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
003	MID CARBON	11/05/2009 06:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
004	EFFLUENT	11/05/2009 06:15pm	W	4	1LG	H2SO4	OIL & GREASE \ TPH I664	1,250mlP, 1-1LagB
					250 ML	HNO3	Total Lead 6020A	
					VOA	HCL	BTEX \ MTBE 8021B	

Relinquished by:	Date 11/10/09	Time 1800	Received by:	Date	Time
Relinquished by: FedEx	Date 11/11/09	Time 955	Received by laboratory:	Date 11/11/09	Time 955
Special Reporting Requirements: None			Lab Notes:	Temp 3°	

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: ATC Project # 4025206

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None Other

Optional: Proj. Due Date: Proj. Name:

Thermometer Used JB Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3° Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 11/11/09
Initials: MRW

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4. name only - MRW 11/11/09
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed MRW / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 11/11/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 31, 2009

Dan Adams
ATC Associates, Inc
11121 Canal Road
Cincinnati, OH 45241

RE: Project: 0003642
Pace Project No.: 4026866

Dear Dan Adams:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4026866

Minnesota Certification IDs

Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4026866

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4026866001	INFLUENT	Water	12/21/09 15:00	12/23/09 11:10
4026866002	POST AIR STRIPPER	Water	12/21/09 15:05	12/23/09 11:10
4026866003	MID CARBON	Water	12/21/09 15:10	12/23/09 11:10
4026866004	EFFLUENT	Water	12/21/09 15:15	12/23/09 11:10

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4026866

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4026866001	**INFLUENT**	EPA 8021	PMS	6	PASI-G
4026866002	**POST AIR STRIPPER**	EPA 8021	PMS	6	PASI-G
4026866003	**MID CARBON**	EPA 8021	PMS	6	PASI-G
4026866004	**EFFLUENT**	EPA 8021	PMS	6	PASI-G
		EPA 6020	DS1	1	PASI-G
		EPA 8270 by SIM	RJN	18	PASI-G
		EPA 1664 OG	MJS	1	PASI-M

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4026866

Sample: INFLUENT **Lab ID: 4026866001** Collected: 12/21/09 15:00 Received: 12/23/09 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		12/28/09 17:29	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/28/09 17:29	100-41-4	
Methyl-tert-butyl ether	**44.6**	ug/L	1.0	1		12/28/09 17:29	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		12/28/09 17:29	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/28/09 17:29	1330-20-7	
a,a,a-Trifluorotoluene (S)	97	%	80-120	1		12/28/09 17:29	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4026866

Sample: POST AIR STRIPPER **Lab ID: 4026866002** Collected: 12/21/09 15:05 Received: 12/23/09 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		12/28/09 17:54	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/28/09 17:54	100-41-4	
Methyl-tert-butyl ether	**1.3**	ug/L	1.0	1		12/28/09 17:54	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		12/28/09 17:54	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/28/09 17:54	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%	80-120	1		12/28/09 17:54	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4026866

Sample: MID CARBON **Lab ID: 4026866003** Collected: 12/21/09 15:10 Received: 12/23/09 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		12/28/09 18:20	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/28/09 18:20	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		12/28/09 18:20	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		12/28/09 18:20	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/28/09 18:20	1330-20-7	
a,a,a-Trifluorotoluene (S)	97	%	80-120	1		12/28/09 18:20	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4026866

Sample: EFFLUENT **Lab ID: 4026866004** Collected: 12/21/09 15:15 Received: 12/23/09 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		12/28/09 18:45	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/28/09 18:45	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		12/28/09 18:45	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		12/28/09 18:45	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/28/09 18:45	1330-20-7	
a,a,a-Trifluorotoluene (S)	102	%	80-120	1		12/28/09 18:45	98-08-8	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Lead	**<1.0**	ug/L	1.0	1	12/29/09 11:40	12/30/09 11:15	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	83-32-9	
Acenaphthylene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	208-96-8	
Anthracene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	120-12-7	
Benzo(a)anthracene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	56-55-3	
Benzo(a)pyrene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	50-32-8	
Benzo(b)fluoranthene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	205-99-2	
Benzo(g,h,i)perylene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	191-24-2	
Benzo(k)fluoranthene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	207-08-9	
Chrysene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	218-01-9	
Dibenz(a,h)anthracene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	53-70-3	
Fluoranthene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	206-44-0	
Fluorene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	193-39-5	
Naphthalene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	91-20-3	
Phenanthrene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	85-01-8	
Pyrene	**<0.048**	ug/L	0.048	1	12/28/09 08:00	12/28/09 20:22	129-00-0	
2-Fluorobiphenyl (S)	52	%	25-130	1	12/28/09 08:00	12/28/09 20:22	321-60-8	
Terphenyl-d14 (S)	75	%	36-140	1	12/28/09 08:00	12/28/09 20:22	1718-51-0	
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	**1.3J**	mg/L	5.0	1		12/29/09 08:18		

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4026866

QC Batch: GCV/4460 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4026866001, 4026866002, 4026866003, 4026866004

METHOD BLANK: 250581 Matrix: Water
Associated Lab Samples: 4026866001, 4026866002, 4026866003, 4026866004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	12/28/09 10:40	
Ethylbenzene	ug/L	<1.0	1.0	12/28/09 10:40	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	12/28/09 10:40	
Toluene	ug/L	<1.0	1.0	12/28/09 10:40	
Xylene (Total)	ug/L	<3.0	3.0	12/28/09 10:40	
a,a,a-Trifluorotoluene (S)	%	105	80-120	12/28/09 10:40	

LABORATORY CONTROL SAMPLE & LCSD: 250582 250583

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.3	21.3	106	106	80-120	.2	20	
Ethylbenzene	ug/L	20	21.2	21.0	106	105	80-120	.9	20	
Methyl-tert-butyl ether	ug/L	20	20.2	20.6	101	103	80-120	2	20	
Toluene	ug/L	20	20.8	20.8	104	104	80-120	.3	20	
Xylene (Total)	ug/L	60	62.4	62.3	104	104	80-120	.2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 250886 250887

Parameter	Units	4026863002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	721	200	200	934	935	106	107	28-167	.1	20	
Ethylbenzene	ug/L	102	200	200	329	330	114	114	51-151	.09	20	
Methyl-tert-butyl ether	ug/L	<10.0	200	200	210	208	102	101	77-120	.5	20	
Toluene	ug/L	1280	200	200	1490	1480	104	102	54-151	.4	20	
Xylene (Total)	ug/L	1110	600	600	1770	1770	110	110	29-164	.06	20	
a,a,a-Trifluorotoluene (S)	%						99	101	80-120			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4026866

QC Batch: MPRP/3532
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 4026866004

METHOD BLANK: 251078 Matrix: Water
Associated Lab Samples: 4026866004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	12/30/09 09:57	

LABORATORY CONTROL SAMPLE: 251079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	498	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 251080 251081

Parameter	Units	4026863004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	<1.0	500	500	504	505	101	101	75-125	.1	20	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4026866

QC Batch: OEXT/6489
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4026866004

METHOD BLANK: 250612 Matrix: Water
Associated Lab Samples: 4026866004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	<0.050	0.050	12/28/09 12:45	
Acenaphthylene	ug/L	<0.050	0.050	12/28/09 12:45	
Anthracene	ug/L	<0.050	0.050	12/28/09 12:45	
Benzo(a)anthracene	ug/L	<0.050	0.050	12/28/09 12:45	
Benzo(a)pyrene	ug/L	<0.050	0.050	12/28/09 12:45	
Benzo(b)fluoranthene	ug/L	<0.050	0.050	12/28/09 12:45	
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	12/28/09 12:45	
Benzo(k)fluoranthene	ug/L	<0.050	0.050	12/28/09 12:45	
Chrysene	ug/L	<0.050	0.050	12/28/09 12:45	
Dibenz(a,h)anthracene	ug/L	<0.050	0.050	12/28/09 12:45	
Fluoranthene	ug/L	<0.050	0.050	12/28/09 12:45	
Fluorene	ug/L	<0.050	0.050	12/28/09 12:45	
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	12/28/09 12:45	
Naphthalene	ug/L	<0.050	0.050	12/28/09 12:45	
Phenanthrene	ug/L	<0.050	0.050	12/28/09 12:45	
Pyrene	ug/L	<0.050	0.050	12/28/09 12:45	
2-Fluorobiphenyl (S)	%	75	25-130	12/28/09 12:45	
Terphenyl-d14 (S)	%	94	36-140	12/28/09 12:45	

LABORATORY CONTROL SAMPLE & LCSD: 250613 250614

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	.2	0.15	0.12	77	60	43-130	26	46	
Acenaphthylene	ug/L	.2	0.16	0.12	78	59	33-130	27	47	
Anthracene	ug/L	.2	0.15	0.11	77	56	33-130	33	50	
Benzo(a)anthracene	ug/L	.2	0.17	0.18	87	89	41-130	3	20	
Benzo(a)pyrene	ug/L	.2	0.18	0.18	91	91	59-130	0	20	
Benzo(b)fluoranthene	ug/L	.2	0.17	0.17	86	84	53-130	2	20	
Benzo(g,h,i)perylene	ug/L	.2	0.16	0.17	82	84	55-130	2	20	
Benzo(k)fluoranthene	ug/L	.2	0.19	0.18	94	90	64-133	4	20	
Chrysene	ug/L	.2	0.18	0.17	88	87	62-130	1	20	
Dibenz(a,h)anthracene	ug/L	.2	0.16	0.16	80	79	37-130	.8	20	
Fluoranthene	ug/L	.2	0.16	0.13	81	67	48-130	18	37	
Fluorene	ug/L	.2	0.16	0.13	80	64	42-130	23	48	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.16	0.16	82	80	46-130	2	20	
Naphthalene	ug/L	.2	0.16	0.12	80	62	33-130	24	53	
Phenanthrene	ug/L	.2	0.15	0.11	74	56	36-130	29	47	
Pyrene	ug/L	.2	0.17	0.15	85	76	51-130	12	33	
2-Fluorobiphenyl (S)	%				77	67	25-130			
Terphenyl-d14 (S)	%				93	84	36-140			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4026866

QC Batch: WET/17998
QC Batch Method: EPA 1664 OG
Analysis Method: EPA 1664 OG
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 4026866004

METHOD BLANK: 732131 Matrix: Water
Associated Lab Samples: 4026866004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	0.21J	5.3	12/29/09 08:18	

LABORATORY CONTROL SAMPLE: 732132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	42.1	37.2	88	78-114	

MATRIX SPIKE SAMPLE: 732133

Parameter	Units	10119042001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	32.3	80	78-114	

SAMPLE DUPLICATE: 732151

Parameter	Units	10119194001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	0.0J		18	

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QUALIFIERS

Project: 0003642
Pace Project No.: 4026866

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSSV/2328

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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4026866
MEN

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00020121

TURN AROUND TIME: STANDARD

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID: 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Adam Campbell
PHONE #: O:937-863-7391 x7391 FAX #: Fax: 937-863-6078
DIRECT STATE PAY SITE
CODE: 44 - Operation, Maintenance, and Monitoring
TYPE: L - Analytical

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Travis Bukach ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Randy Good
SHIPPED VIA: FedExp
TRACKING #:

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	INFLUENT	12/21/2009 03:00pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	8240MIB
002	POST AIR STRIPPER	12/21/2009 03:05pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
003	MID CARBON	12/21/2009 03:10pm	W	2	VOA	HCL	BTEX \ MTBE 8021B	
004	EFFLUENT	12/21/2009 03:15pm	W	5	250 ML	HNO3	Total Lead 6020A	1-250MID 2-1LAGAB
					VOA	HCL	BTEX \ MTBE 8021B	
					1LG	H2SO4	OIL & GREASE \ TPH 1664	
					1LG	COOL	PAH 8270	

Relinquished by:	Date 12/21/09	Time 1800	Received by:	Date	Time
Relinquished by:	Date 12/22/09	Time 1110	Received by laboratory:	Date 12/22/09	Time 1110
Special Reporting Requirements: None			Lab Notes:	Temp	1C

Pace Analytical Services, Inc.
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Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: ATC Project # 4102 6866

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None Other

Optional
Proj Due Date:
Proj Name:

Thermometer Used 9B Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1°C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12/23/09
Initials: AE

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6. PAH up 12/28 AE 12/23/09
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed AE / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LW **Date:** 12/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 21, 2010

Mark Samblanet
ATC Associates
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: 0003642
Pace Project No.: 4027459

Dear Mark Samblanet:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kang Khang for
Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4027459

Minnesota Certification IDs

Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4027459

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4027459001	**EFFLUENT**	Water	01/04/10 18:15	01/14/10 10:10

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4027459

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4027459001	**EFFLUENT**	EPA 8021	SES	6	PASI-G
		EPA 6020	DS1	1	PASI-G
		EPA 1664 OG	MJS	1	PASI-M

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027459

Sample: EFFLUENT **Lab ID: 4027459001** Collected: 01/04/10 18:15 Received: 01/14/10 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021							
Benzene	**<1.0**	ug/L	1.0	1		01/15/10 09:55	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		01/15/10 09:55	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		01/15/10 09:55	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	1		01/15/10 09:55	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1		01/15/10 09:55	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120	1		01/15/10 09:55	98-08-8	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Lead	**<1.0**	ug/L	1.0	1	01/15/10 09:50	01/16/10 07:14	7439-92-1	
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	**<2.5**	mg/L	5.0	1		01/19/10 10:50		

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4027459

QC Batch: GCV/4527
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4027459001

METHOD BLANK: 255596 Matrix: Water
Associated Lab Samples: 4027459001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	01/15/10 08:38	
Ethylbenzene	ug/L	<1.0	1.0	01/15/10 08:38	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/15/10 08:38	
Toluene	ug/L	<1.0	1.0	01/15/10 08:38	
Xylene (Total)	ug/L	<3.0	3.0	01/15/10 08:38	
a,a,a-Trifluorotoluene (S)	%	100	80-120	01/15/10 08:38	

LABORATORY CONTROL SAMPLE & LCSD: 255597 255598

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.5	19.4	98	97	80-120	.7	20	
Ethylbenzene	ug/L	20	18.3	18.2	92	91	80-120	.6	20	
Methyl-tert-butyl ether	ug/L	20	19.6	19.2	98	96	80-120	2	20	
Toluene	ug/L	20	18.8	18.7	94	93	80-120	.6	20	
Xylene (Total)	ug/L	60	54.7	54.3	91	91	80-120	.6	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 255599 255600

Parameter	Units	4027428026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	322	100	100	405	400	83	78	28-167	1	20	
Ethylbenzene	ug/L	810	100	100	863	852	52	41	51-151	1	20	M0
Methyl-tert-butyl ether	ug/L	5.0	100	100	103	104	98	99	77-120	1	20	
Toluene	ug/L	399	100	100	476	471	77	72	54-151	1	20	
Xylene (Total)	ug/L	1640	300	300	1870	1840	76	66	29-164	2	20	
a,a,a-Trifluorotoluene (S)	%						100	100	80-120			

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4027459

QC Batch: MPRP/3585
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 4027459001

METHOD BLANK: 255943 Matrix: Water
Associated Lab Samples: 4027459001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	01/16/10 04:49	

LABORATORY CONTROL SAMPLE: 255944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 255945 255946

Parameter	Units	4027462001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	0.13J	500	500	494	496	99	99	75-125	.5	20	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4027459

QC Batch: WET/18117
QC Batch Method: EPA 1664 OG
Analysis Method: EPA 1664 OG
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 4027459001

METHOD BLANK: 738064 Matrix: Water
Associated Lab Samples: 4027459001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	<2.6	5.3	01/19/10 10:50	

LABORATORY CONTROL SAMPLE & LCSD: 738065 738066

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	42.1	33.7	32.8	80	78	78-114	3	18	

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QUALIFIERS

Project: 0003642
Pace Project No.: 4027459

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: WET/18117

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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RW 4027459

Page 1 of 1 **Chain-of-Custody-Record** **COC ID # 00020260**

Speedway SuperAmerica Project Information

SSA STORE #: 0003642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
SSA PROJ. MGR: Adam Campbell
PHONE #: O:937-863-7391 x7391 FAX #: Fax: 937-863-6078
DIRECT STATE PAY SITE
CODE: 44 - Operation, Maintenance, and Monitoring
TYPE: L - Analytical

TURN AROUND TIME
STANDARD

LAB: Pace Analytical Services (WI)
CONSULTANT: ATC Associates Inc. - Cleveland, OH
PROJECT MGR: Mark Samblanet ***INVOICE TO***
ADDRESS: 10020 Brecksville RoadBrecksville, Ohio 44141-3219
PHONE #: O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER: Randy Good
SHIPPED VIA: FedExp
TRACKING #:

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
EFFLUENT 001	01/04/2010 06:15pm	W	4	250 ML	HNO3	Total Lead 6020A	2-40mlB, 250mlD, 1-1LgB
				VOA	HCL	BTEX \ MTBE 8021B	
				1LG	H2SO4	OIL & GREASE \ TPH 1664	

Relinquished by: [signature] Date 1/12/10 Time 1800
Relinquished by: Fed Ex Date 1/14/10 Time 1010
Special Reporting Requirements: *None*

Received by:
Received by laboratory: [signature]
Lab Notes:

Date Time
Date 1/14/10 Time 1010
Temp 3.5°

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: ATC Project # 4027459

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None Other

Thermometer Used 1B Type of Ice: (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature MRN 3.5 3.5 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Optional: Proj. Due Date: Proj. Name:

Person examining contents: Date: 1/14/10 Initials: MRN

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. VOC's up hold 1/18 MRN 1/14
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. COC says O&G volume is H_2SO_4 preserved, it is HCl preserved MRN 1/14
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed MRN Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: WW **Date:** 1/14/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 10, 2009

Mr. Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: SSA STORE#0003642
Pace Project No.: 10115655

Dear Mr. Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SSA STORE#0003642
Pace Project No.: 10115655

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: SSA STORE#0003642
Pace Project No.: 10115655

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10115655001	**EFFLUENT AIR**	Air	10/26/09 10:00	10/28/09 09:40

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SAMPLE ANALYTE COUNT

Project: SSA STORE#0003642
Pace Project No.: 10115655

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10115655001	**EFFLUENT AIR**	TO-3 Air	CR1	6

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ANALYTICAL RESULTS

Project: SSA STORE#0003642
Pace Project No.: 10115655

Sample: EFFLUENT AIR **Lab ID: 10115655001** Collected: 10/26/09 10:00 Received: 10/28/09 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**2.1**	ppmv	0.10	1		10/28/09 11:48	71-43-2	
Ethylbenzene	**0.28**	ppmv	0.10	1		10/28/09 11:48	100-41-4	
THC as Gas	**234**	ppmv	1.0	1		10/28/09 11:48		E
Toluene	**2.9**	ppmv	0.10	1		10/28/09 11:48	108-88-3	
m&p-Xylene	**0.51**	ppmv	0.20	1		10/28/09 11:48	1330-20-7	
o-Xylene	**0.16**	ppmv	0.10	1		10/28/09 11:48	95-47-6	

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QUALITY CONTROL DATA

Project: SSA STORE#0003642
Pace Project No.: 10115655

QC Batch: AIR/9311
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX BAG
Associated Lab Samples: 10115655001

METHOD BLANK: 704309
Matrix: Air
Associated Lab Samples: 10115655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	10/28/09 09:06	
Ethylbenzene	ppmv	ND	0.10	10/28/09 09:06	
m&p-Xylene	ppmv	ND	0.20	10/28/09 09:06	
o-Xylene	ppmv	ND	0.10	10/28/09 09:06	
THC as Gas	ppmv	ND	1.0	10/28/09 09:06	
Toluene	ppmv	ND	0.10	10/28/09 09:06	

LABORATORY CONTROL SAMPLE & LCSD: 704310 704311

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.1	1.1	110	107	70-130	3	30	
Ethylbenzene	ppmv	1	0.93	0.91	93	91	70-130	2	30	
m&p-Xylene	ppmv	2	2.0	1.9	101	97	70-130	4	30	
o-Xylene	ppmv	1	0.95	1.0	95	104	70-130	9	30	
THC as Gas	ppmv	10	11.5	11.2	115	112	70-130	3	30	
Toluene	ppmv	1	1.0	0.95	102	95	70-130	7	30	

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QUALIFIERS

Project: SSA STORE#0003642
Pace Project No.: 10115655

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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Minneapolis, MN 55414
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SSA STORE#0003642
Pace Project No.: 10115655

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10115655001	**EFFLUENT AIR**	TO-3 Air	AIR/9311		

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1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862
Lab Project Number: 10115655
Project Name: SSA STORE#0003642

Lab Sample No: 10115655001
Client Sample ID: EFFLUENT AIR
ProjSampleNum: 10115655001
Matrix: Air
Date Collected: 10/26/09 10:00
Date Received: 10/28/09 9:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-3 Air							
Benzene	6.82	ug/L	0.32	1	10/28/09 11:48 CR1	71-43-2	
Ethylbenzene	1.24	ug/L	0.44	1	10/28/09 11:48 CR1	100-41-4	
m&p-Xylene	2.25	ug/L	0.88	1	10/28/09 11:48 CR1	1330-20-7	
o-Xylene	0.706	ug/L	0.44	1	10/28/09 11:48 CR1	95-47-6	
THC as Gas	1020	ug/L	4.3	1	10/28/09 11:48 CR1		E
Toluene	11.1	ug/L	0.38	1	10/28/09 11:48 CR1	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862

Lab Project Number: 10115655
Project Name: SSA STORE#0003642

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

SUPPLEMENTAL REPORT

Units Conversion Request

10151055

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00019427

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Adam Campbell		
PHONE #:	O:937-863-7391 x7391	FAX #:	Fax: 937-863-6078
	DIRECT STATE PAY SITE		
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	ATC Associates Inc. - Cleveland, OH
PROJECT MGR:	Travis Bukach ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Randy Good
SHIPPED VIA:	FedExp
TRACKING #:	

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
EFFLUENT AIR	10/26/2009 10:00am	A	2	TEDLAR	NONE	BTEX/TPH T03	001

Relinquished by:		Date		Time 1300	Received by:	Date 10/26/09	Time 0900
Relinquished by:		Date		Time	Received by laboratory:	Date	Time
Special Reporting Requirements: None					Lab Notes:	Temp	

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: SSA - ATL-CIEV Project # 10115603S

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other_____

Tracking #: 770923176178

Optional
Proj. Due Date:
Proj. Name:

Comments:

Date and initials of person examining contents: 10/28/09

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6. Tedlar bag
Rush Turn Around Time Requested:	☐Yes ☐No ☒N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: TB		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: _____ **Date:** 10/28/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 03, 2009

Mr. Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: SSA STORE#0003642
Pace Project No.: 10117421

Dear Mr. Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: SSA STORE#0003642
Pace Project No.: 10117421

Minnesota Certification IDs

1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: SSA STORE#0003642
Pace Project No.: 10117421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10117421001	**EFFLUENT AIR**	Air	11/17/09 20:00	11/20/09 09:50

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SAMPLE ANALYTE COUNT

Project: SSA STORE#0003642
Pace Project No.: 10117421

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10117421001	EFFLUENT AIR	TO-3 Air	CR1	6

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(612)607-1700

ANALYTICAL RESULTS

Project: SSA STORE#0003642
Pace Project No.: 10117421

Sample: EFFLUENT AIR **Lab ID: 10117421001** Collected: 11/17/09 20:00 Received: 11/20/09 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**0.27**	ppmv	0.10	1		11/20/09 12:45	71-43-2	A1
Ethylbenzene	**0.10**	ppmv	0.10	1		11/20/09 12:45	100-41-4	
THC as Gas	**24.6**	ppmv	1.0	1		11/20/09 12:45		
Toluene	**0.83**	ppmv	0.10	1		11/20/09 12:45	108-88-3	
m&p-Xylene	**0.85**	ppmv	0.20	1		11/20/09 12:45	1330-20-7	
o-Xylene	**0.20**	ppmv	0.10	1		11/20/09 12:45	95-47-6	

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1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: SSA STORE#0003642
Pace Project No.: 10117421

QC Batch: AIR/9418
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX BAG
Associated Lab Samples: 10117421001

METHOD BLANK: 718557 Matrix: Air
Associated Lab Samples: 10117421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	11/20/09 10:40	
Ethylbenzene	ppmv	ND	0.10	11/20/09 10:40	
m&p-Xylene	ppmv	ND	0.20	11/20/09 10:40	
o-Xylene	ppmv	ND	0.10	11/20/09 10:40	
THC as Gas	ppmv	ND	1.0	11/20/09 10:40	
Toluene	ppmv	ND	0.10	11/20/09 10:40	

LABORATORY CONTROL SAMPLE & LCSD: 718558 718559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	0.94	0.96	94	96	70-130	2	30	
Ethylbenzene	ppmv	1	0.88	0.83	88	83	70-130	5	30	
m&p-Xylene	ppmv	2	2.0	1.9	98	94	70-130	4	30	
o-Xylene	ppmv	1	1.2	1.1	125	110	70-130	13	30	
THC as Gas	ppmv	10	9.7	9.3	97	93	70-130	4	30	
Toluene	ppmv	1	0.94	0.99	94	99	70-130	5	30	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: SSA STORE#0003642
Pace Project No.: 10117421

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

A1 The tedlar bag received outside 48 hours from collection.

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SSA STORE#0003642
Pace Project No.: 10117421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10117421001	EFFLUENT AIR	TO-3 Air	AIR/9418		

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1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862
Lab Project Number: 10117421
Project Name: SSA STORE#0003642

Lab Sample No: 10117421001
Client Sample ID: EFFLUENT AIR
ProjSampleNum: 10117421001
Matrix: Air
Date Collected: 11/17/09 20:00
Date Received: 11/20/09 9:50

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-3 Air							
Benzene	0.877	ug/L	0.32	1	11/20/09 12:45 CR1	71-43-2	A1
Ethylbenzene	0.441	ug/L	0.44	1	11/20/09 12:45 CR1	100-41-4	
m&p-Xylene	3.75	ug/L	0.88	1	11/20/09 12:45 CR1	1330-20-7	
o-Xylene	0.883	ug/L	0.44	1	11/20/09 12:45 CR1	95-47-6	
THC as Gas	107	ug/L	4.3	1	11/20/09 12:45 CR1		
Toluene	3.18	ug/L	0.38	1	11/20/09 12:45 CR1	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862

Lab Project Number: 10117421
Project Name: SSA STORE#0003642

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[A1] The tedlar bag received outside 48 hours from collection.

SUPPLEMENTAL REPORT

Units Conversion Request

10117421

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00019768

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Adam Campbell		
PHONE #:	O:937-863-7391 x7391 *DIRECT STATE PAY SITE*	FAX #:	Fax: 937-863-6078
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	ATC Associates Inc. - Cleveland, OH
PROJECT MGR:	Travis Bukach ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Randy Good
SHIPPED VIA:	FedExp
TRACKING #:	

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
EFFLUENT AIR	11/17/2009 08:00pm	A	2	TEDLAR	NONE	BTEX/TPH T03	10117421001

Relinquished by:	Date 11/19/09	Time 1600	Received by:	Date 11-20-09	Time 09:50
Relinquished by:	Date	Time	Received by laboratory:	Date	Time
Special Reporting Requirements: None			Lab Notes:	Temp	

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: ATC SSA Project # 10117421

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other_____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other_____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 8640 6591 0430

Comments:

Date and initials of person examining contents: 11-20-09 K

Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5. >48 HRS (1)
Short Hold Time Analysis (<72hr):	[X]Yes [ ]No [ ]N/A	6. TO3 - Tedlar Bag
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Media: HAP (BAG)		11.
Sample Labels match COC:	[X]Yes [ ]No [ ]N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Travis Bukach Date/Time: 11/20/09 @

Comments/ Resolution: (1) QC to run Samples out of Hold per Travis - CTS 11/20/09

Project Manager Review: Date: 11/20/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 04, 2010

Mr. Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 44141

RE: Project: SSA STORE#0003642
Pace Project No.: 10119455

Dear Mr. Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: SSA STORE#0003642
Pace Project No.: 10119455

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: SSA STORE#0003642
Pace Project No.: 10119455

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10119455001	**EFFLUENT AIR**	Air	12/21/09 16:00	12/23/09 10:50

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SAMPLE ANALYTE COUNT

Project: SSA STORE#0003642
Pace Project No.: 10119455

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10119455001	**EFFLUENT AIR**	TO-3 Air	CR1	6

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ANALYTICAL RESULTS

Project: SSA STORE#0003642
Pace Project No.: 10119455

Sample: EFFLUENT AIR **Lab ID: 10119455001** Collected: 12/21/09 16:00 Received: 12/23/09 10:50 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**0.70**	ppmv	0.10	1		12/23/09 14:59	71-43-2	
Ethylbenzene	ND	ppmv	0.10	1		12/23/09 14:59	100-41-4	
THC as Gas	**79.3**	ppmv	1.0	1		12/23/09 14:59		
Toluene	**1.3**	ppmv	0.10	1		12/23/09 14:59	108-88-3	
m&p-Xylene	**0.48**	ppmv	0.20	1		12/23/09 14:59	1330-20-7	
o-Xylene	**0.24**	ppmv	0.10	1		12/23/09 14:59	95-47-6	

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QUALITY CONTROL DATA

Project: SSA STORE#0003642
Pace Project No.: 10119455

QC Batch: AIR/9550
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX BAG
Associated Lab Samples: 10119455001

METHOD BLANK: 731351 Matrix: Air
Associated Lab Samples: 10119455001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	12/23/09 09:04	
Ethylbenzene	ppmv	ND	0.10	12/23/09 09:04	
m&p-Xylene	ppmv	ND	0.20	12/23/09 09:04	
o-Xylene	ppmv	ND	0.10	12/23/09 09:04	
THC as Gas	ppmv	ND	1.0	12/23/09 09:04	
Toluene	ppmv	ND	0.10	12/23/09 09:04	

LABORATORY CONTROL SAMPLE & LCSD: 731352 731353

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	0.99	0.99	99	99	70-130	0	30	
Ethylbenzene	ppmv	1	1.0	0.97	101	97	70-130	4	30	
m&p-Xylene	ppmv	2	2.1	2.1	103	103	70-130	0	30	
o-Xylene	ppmv	1	1.0	1.2	100	116	70-130	14	30	
THC as Gas	ppmv	10	11.0	10.9	110	109	70-130	0	30	
Toluene	ppmv	1	1.0	0.97	102	97	70-130	5	30	

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: SSA STORE#0003642
Pace Project No.: 10119455

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SSA STORE#0003642
Pace Project No.: 10119455

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10119455001	**EFFLUENT AIR**	TO-3 Air	AIR/9550		

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862

Lab Project Number: 10119455
Project Name: SSA STORE#0003642

Lab Sample No: 10119455001 ProjSampleNum: 10119455001 Date Collected: 12/21/09 16:00
Client Sample ID: EFFLUENT AIR Matrix: Air Date Received: 12/23/09 10:50

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-3 Air							
Benzene	2.27	ug/L	0.32	1	12/23/09 14:59 CR1	71-43-2	
Ethylbenzene	ND	ug/L	0.44	1	12/23/09 14:59 CR1	100-41-4	
m&p-Xylene	2.12	ug/L	0.88	1	12/23/09 14:59 CR1	1330-20-7	
o-Xylene	1.06	ug/L	0.44	1	12/23/09 14:59 CR1	95-47-6	
THC as Gas	344	ug/L	4.3	1	12/23/09 14:59 CR1		
Toluene	4.98	ug/L	0.38	1	12/23/09 14:59 CR1	108-88-3	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: SSA_ATC_Clev
Phone: (937)863-7862

Lab Project Number: 10119455
Project Name: SSA STORE#0003642

PARAMETER FOOTNOTES

10119455

Page 1 of 1 **Chain-of-Custody-Record** **COC ID # 00020122**

TURN AROUND TIME
STANDARD

Speedway SuperAmerica Project Information

SSA STORE #:	0003642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
SSA PROJ. MGR:	Adam Campbell		
PHONE #:	O:937-863-7391 x7391	FAX #:	Fax: 937-863-6078
	DIRECT STATE PAY SITE		
CODE:	44 - Operation, Maintenance, and Monitoring		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	ATC Associates Inc. - Cleveland, OH
PROJECT MGR:	Travis Bukach ***INVOICE TO***
ADDRESS:	10020 Brecksville RoadBrecksville, Ohio 44141
PHONE #:	O:440-838-7177 x FAX #: Fax: 440-838-7181
SAMPLER:	Randy Good
SHIPPED VIA:	FedExp
TRACKING #:	

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
EFFLUENT AIR	12/21/2009 04:00pm	A	2	TEDLAR	NONE	BTEX/TPH T03	10119455001

Relinquished by:	Date 12/22/09	Time 1200	Received by:	Date 12.23.09	Time 10:50
Relinquished by:	Date	Time	Received by lab/courier:	Date	Time
Special Reporting Requirements: None			Lab Notes:	Temp 4.0	

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: SSA-ATC Project # 10119455

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other_____

Tracking #: 8713 2857 4994

Comments:

Date and Initials of person examining contents: 12-23-09 JK

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6. TD3 - Tedlar Bag
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (BAG)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 12/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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February 02, 2010

Travis Bukach
ATC Associates, Inc.
10020 Brecksville Road
Brecksville, OH 441413219

RE: Project: 0003642
Pace Project No.: 4027889

Dear Travis Bukach:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0003642
Pace Project No.: 4027889

Green Bay Certification IDs
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
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SAMPLE SUMMARY

Project: 0003642
Pace Project No.: 4027889

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4027889001	Duplicate	Water	01/25/10 00:00	01/27/10 10:15
4027889002	TRIP BLANK	Water	01/25/10 00:00	01/27/10 10:15
4027889003	MW-01	Water	01/25/10 17:10	01/27/10 10:15
4027889004	MW-08	Water	01/25/10 17:20	01/27/10 10:15
4027889005	MW-09	Water	01/25/10 17:30	01/27/10 10:15
4027889006	MW-10	Water	01/25/10 17:40	01/27/10 10:15
4027889007	MW-07	Water	01/25/10 17:50	01/27/10 10:15
4027889008	MW-06	Water	01/25/10 18:00	01/27/10 10:15
4027889009	MW-02	Water	01/25/10 18:10	01/27/10 10:15
4027889010	MW-03	Water	01/25/10 18:20	01/27/10 10:15
4027889011	MW-11	Water	01/25/10 18:30	01/27/10 10:15
4027889012	MW-05	Water	01/25/10 18:40	01/27/10 10:15
4027889013	MW-04	Water	01/25/10 18:50	01/27/10 10:15

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SAMPLE ANALYTE COUNT

Project: 0003642
Pace Project No.: 4027889

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4027889001	Duplicate	EPA 8021	SES	6
4027889002	TRIP BLANK	EPA 8021	SES	6
4027889003	MW-01	EPA 8021	SES	6
4027889004	MW-08	EPA 8021	SES	6
4027889005	MW-09	EPA 8021	SES	6
4027889006	MW-10	EPA 8021	SES	6
4027889007	MW-07	EPA 8021	SES	6
4027889008	MW-06	EPA 8021	SES	6
4027889009	MW-02	EPA 8021	SES	6
4027889010	MW-03	EPA 8021	SES	6
4027889011	MW-11	EPA 8021	SES	6
4027889012	MW-05	EPA 8021	SES	6
4027889013	MW-04	EPA 8021	SES	6

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: Duplicate **Lab ID: 4027889001** Collected: 01/25/10 00:00 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**255**	ug/L	1.0	0.39	1		01/28/10 13:47	71-43-2	
Ethylbenzene	**29.8**	ug/L	1.0	0.41	1		01/28/10 13:47	100-41-4	
Methyl-tert-butyl ether	**139**	ug/L	1.0	0.38	1		01/28/10 13:47	1634-04-4	
Toluene	**1.7**	ug/L	1.0	0.42	1		01/28/10 13:47	108-88-3	
Xylene (Total)	**11.3**	ug/L	3.0	1.3	1		01/28/10 13:47	1330-20-7	
a,a,a-Trifluorotoluene (S)	97	%	80-120		1		01/28/10 13:47	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: TRIP BLANK **Lab ID: 4027889002** Collected: 01/25/10 00:00 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/29/10 07:21	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/29/10 07:21	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/29/10 07:21	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/29/10 07:21	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/29/10 07:21	1330-20-7	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		01/29/10 07:21	98-08-8	HS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-01 **Lab ID: 4027889003** Collected: 01/25/10 17:10 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 14:12	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 14:12	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 14:12	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 14:12	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 14:12	1330-20-7	
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		01/28/10 14:12	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-08 **Lab ID: 4027889004** Collected: 01/25/10 17:20 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 14:38	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 14:38	100-41-4	
Methyl-tert-butyl ether	**4.0**	ug/L	1.0	0.38	1		01/28/10 14:38	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 14:38	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 14:38	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		01/28/10 14:38	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-09 **Lab ID: 4027889005** Collected: 01/25/10 17:30 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 15:03	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 15:03	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 15:03	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 15:03	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 15:03	1330-20-7	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		01/28/10 15:03	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-10 **Lab ID: 4027889006** Collected: 01/25/10 17:40 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**242**	ug/L	1.0	0.39	1		01/28/10 15:29	71-43-2	
Ethylbenzene	**27.7**	ug/L	1.0	0.41	1		01/28/10 15:29	100-41-4	
Methyl-tert-butyl ether	**128**	ug/L	1.0	0.38	1		01/28/10 15:29	1634-04-4	
Toluene	**1.6**	ug/L	1.0	0.42	1		01/28/10 15:29	108-88-3	
Xylene (Total)	**9.6**	ug/L	3.0	1.3	1		01/28/10 15:29	1330-20-7	
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		01/28/10 15:29	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-07 **Lab ID: 4027889007** Collected: 01/25/10 17:50 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 17:37	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 17:37	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 17:37	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 17:37	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 17:37	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		01/28/10 17:37	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-06 **Lab ID: 4027889008** Collected: 01/25/10 18:00 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 18:02	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 18:02	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 18:02	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 18:02	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 18:02	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		01/28/10 18:02	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-02 **Lab ID: 4027889009** Collected: 01/25/10 18:10 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 18:28	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 18:28	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 18:28	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 18:28	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 18:28	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		01/28/10 18:28	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-03 **Lab ID: 4027889010** Collected: 01/25/10 18:20 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.0**	ug/L	1.0	0.39	1		01/28/10 18:53	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	0.41	1		01/28/10 18:53	100-41-4	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.38	1		01/28/10 18:53	1634-04-4	
Toluene	**<1.0**	ug/L	1.0	0.42	1		01/28/10 18:53	108-88-3	
Xylene (Total)	**<3.0**	ug/L	3.0	1.3	1		01/28/10 18:53	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		01/28/10 18:53	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-11 **Lab ID: 4027889011** Collected: 01/25/10 18:30 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**374**	ug/L	5.0	1.9	5		01/28/10 23:09	71-43-2	
Ethylbenzene	**27.5**	ug/L	5.0	2.1	5		01/28/10 23:09	100-41-4	
Methyl-tert-butyl ether	**1660**	ug/L	5.0	1.9	5		01/28/10 23:09	1634-04-4	
Toluene	**43.7**	ug/L	5.0	2.1	5		01/28/10 23:09	108-88-3	
Xylene (Total)	**184**	ug/L	15.0	6.3	5		01/28/10 23:09	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	80-120		5		01/28/10 23:09	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-05 **Lab ID: 4027889012** Collected: 01/25/10 18:40 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<1.9**	ug/L	5.0	1.9	5		01/29/10 08:48	71-43-2	
Ethylbenzene	**<2.1**	ug/L	5.0	2.1	5		01/29/10 08:48	100-41-4	
Methyl-tert-butyl ether	**666**	ug/L	5.0	1.9	5		01/29/10 08:48	1634-04-4	
Toluene	**<2.1**	ug/L	5.0	2.1	5		01/29/10 08:48	108-88-3	
Xylene (Total)	**<6.3**	ug/L	15.0	6.3	5		01/29/10 08:48	1330-20-7	
a,a,a-Trifluorotoluene (S)	104	%	80-120		5		01/29/10 08:48	98-08-8	

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ANALYTICAL RESULTS

Project: 0003642
Pace Project No.: 4027889

Sample: MW-04 **Lab ID: 4027889013** Collected: 01/25/10 18:50 Received: 01/27/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**2230**	ug/L	10.0	3.9	10		01/28/10 23:35	71-43-2	
Ethylbenzene	**1370**	ug/L	10.0	4.1	10		01/28/10 23:35	100-41-4	
Methyl-tert-butyl ether	**2420**	ug/L	10.0	3.8	10		01/28/10 23:35	1634-04-4	
Toluene	**32.7**	ug/L	10.0	4.2	10		01/28/10 23:35	108-88-3	
Xylene (Total)	**5360**	ug/L	30.0	12.5	10		01/28/10 23:35	1330-20-7	
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		01/28/10 23:35	98-08-8	

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QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4027889

QC Batch: GCV/4577 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4027889001, 4027889002, 4027889003, 4027889004, 4027889005, 4027889006

METHOD BLANK: 259832 Matrix: Water
Associated Lab Samples: 4027889001, 4027889002, 4027889003, 4027889004, 4027889005, 4027889006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	01/28/10 07:35	
Ethylbenzene	ug/L	<1.0	1.0	01/28/10 07:35	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/28/10 07:35	
Toluene	ug/L	<1.0	1.0	01/28/10 07:35	
Xylene (Total)	ug/L	<3.0	3.0	01/28/10 07:35	
a,a,a-Trifluorotoluene (S)	%	102	80-120	01/28/10 07:35	

LABORATORY CONTROL SAMPLE & LCSD: 259833 259834

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.4	21.5	107	107	80-120	.2	20	
Ethylbenzene	ug/L	20	20.1	20.3	101	101	80-120	.7	20	
Methyl-tert-butyl ether	ug/L	20	19.0	19.3	95	97	80-120	1	20	
Toluene	ug/L	20	20.5	20.5	102	103	80-120	.2	20	
Xylene (Total)	ug/L	60	59.9	60.8	100	101	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 259903 259904

Parameter	Units	4027887005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	20	20	22.9	22.9	114	114	28-167	.09	20	
Ethylbenzene	ug/L	<1.0	20	20	21.4	22.3	107	111	51-151	4	20	
Methyl-tert-butyl ether	ug/L	243	20	20	253	281	51	190	77-120	10	20	M0
Toluene	ug/L	<1.0	20	20	21.6	22.5	108	112	54-151	4	20	
Xylene (Total)	ug/L	<3.0	60	60	63.8	66.3	106	110	29-164	4	20	
a,a,a-Trifluorotoluene (S)	%						100	104	80-120			

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(920)469-2436

QUALITY CONTROL DATA

Project: 0003642
Pace Project No.: 4027889

QC Batch: GCV/4578 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4027889007, 4027889008, 4027889009, 4027889010, 4027889011, 4027889012, 4027889013

METHOD BLANK: 259835 Matrix: Water
Associated Lab Samples: 4027889007, 4027889008, 4027889009, 4027889010, 4027889011, 4027889012, 4027889013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<1.0	1.0	01/28/10 16:20	
Ethylbenzene	ug/L	<1.0	1.0	01/28/10 16:20	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/28/10 16:20	
Toluene	ug/L	<1.0	1.0	01/28/10 16:20	
Xylene (Total)	ug/L	<3.0	3.0	01/28/10 16:20	
a,a,a-Trifluorotoluene (S)	%	100	80-120	01/28/10 16:20	

LABORATORY CONTROL SAMPLE & LCSD: 259836 259837

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.3	19.1	96	96	80-120	1	20	
Ethylbenzene	ug/L	20	18.2	18.2	91	91	80-120	.2	20	
Methyl-tert-butyl ether	ug/L	20	17.8	19.0	89	95	80-120	6	20	
Toluene	ug/L	20	18.6	18.5	93	92	80-120	.6	20	
Xylene (Total)	ug/L	60	54.2	54.1	90	90	80-120	.2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 259838 259839

Parameter	Units	4027788030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2520	1000	1000	3550	3550	103	103	28-167	.1	20	
Ethylbenzene	ug/L	1900	1000	1000	2710	2730	82	84	51-151	.7	20	
Methyl-tert-butyl ether	ug/L	<50.0	1000	1000	942	944	94	94	77-120	.3	20	
Toluene	ug/L	3900	1000	1000	4660	4660	76	76	54-151	.04	20	
Xylene (Total)	ug/L	9970	3000	3000	11900	12000	65	66	29-164	.3	20	
a,a,a-Trifluorotoluene (S)	%						99	100	80-120			

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 0003642
Pace Project No.: 4027889

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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APPENDIX C

NPDES MONTHLY DISCHARGE REPORTS

MONTHLY REPORT FORM **4500** Ohio EPA

NAME, ADDRESS CITY, COUNTY, ZIP	STATION CODE	DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION NO.
SPEEDWAY STORE #3642 939 Dixie Highway Rossford, Ohio 43460	2GU00099*AG	October 2009	1 OF 1		

SAMPLING STATION DESCRIPTION
001 AFTER CARBON FILTERS PRIOR TO DISCHARGE TO STORM

NOTE: THIS FORM MUST BE TYPED

IN(1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB
IN(2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB

ANALYST

ENTERED ANALYSIS PERFORMED AND CODE NO. AT RIGHT

DAY										
(1)	1	3	3	3	3	3	3	3		
(2)	001	001	001	001	001	001	001	001		
	FLOW GPD	pH S.U.	LEAD TOT.REC. UG/L	BENZENE UG/L	TOLUENE UG/L	ETHYL-BENZENE UG/L	XYLENES UG/L	OIL & GREASE MG/L		
	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE
	00056	00400	01114	34030	34010	34371	81551	00550		
01										
02										
03										
04										
05										
06										
07	550	6.75	1.1	AA 1.0	AA 1.0	AA 1.0	AA 3.0	AA 2.5		
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL	550									
AVG.	17.7									
MAX										
MIN.										

ADDITIONAL REMARKS (All REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA = Below Laboratory Method Detection Limits

DISTRIBUTION
WHITE - AGENCY
GREEN - REPORTER

FORM NO EPA 4500 (8-91)
FORMERLY EPA SURI

I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONNALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DATE REPORT COMPLETE	SIGNATURE OF REPORTER	TITLE OF REPORTER
11/15/2009		Corporate Manager, Environmental

MONTHLY REPORT FORM **4500** Ohio EPA

NAME, ADDRESS CITY, COUNTY, ZIP	STATION CODE	DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION NO.
SPEEDWAY STORE #3642 939 Dixie Highway Rossford, Ohio 43460	2GU00099*AG	November 2009	1 OF 1		

SAMPLING STATION DESCRIPTION
001 AFTER CARBON FILTERS PRIOR TO DISCHARGE TO STORM

NOTE: THIS FORM MUST BE TYPED

IN(1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB
IN(2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB

ANALYST

ENTERED ANALYSIS PERFORMED AND CODE NO. AT RIGHT

DAY										
(1)	1	3	3	3	3	3	3	3		
(2)	001	001	001	001	001	001	001	001		
	FLOW GPD	pH S.U.	LEAD TOT.REC. UG/L	BENZENE UG/L	TOLUENE UG/L	ETHYL-BENZENE UG/L	XYLENES UG/L	OIL & GREASE MG/L		
	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE
	00056	00400	01114	34030	34010	34371	81551	00550		
01										
02										
03										
04										
05	1916	6.71	1.3	AA 1.0	AA 1.0	AA 1.0	AA 3.0	3		
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTAL	1,916									
AVG.	63.9									
MAX										
MIN.										

ADDITIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA = Below Laboratory Method Detection Limits

DISTRIBUTION
WHITE - AGENCY
GREEN - REPORTER

FORM NO EPA 4500 (8-91)
FORMERLY EPA SUR1

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DATE REPORT COMPLETE	SIGNATURE OF REPORTER	TITLE OF REPORTER
12/15/2009		Corporate Manager, Environmental

MONTHLY REPORT FORM **4500** Ohio EPA

NAME, ADDRESS CITY, COUNTY, ZIP	STATION CODE	DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION NO.
SPEEDWAY STORE #3642 939 Dixie Highway Rossford, Ohio 43460	2GU00099*AG	December 2009	1 OF 1		

SAMPLING STATION DESCRIPTION
001 AFTER CARBON FILTERS PRIOR TO DISCHARGE TO STORM

NOTE: THIS FORM MUST BE TYPED

IN(1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB
IN(2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB

ANALYST

ENTERED ANALYSIS PERFORMED AND CODE NO AT RIGHT

DAY	(1)	1	3	3	3	3	3	3	3	3	
	(2)	001	001	001	001	001	001	001	001	1	
		FLOW GPD	pH S.U.	LEAD TOT.REC. UG/L	BENZENE UG/L	TOLUENE UG/L	ETHYL-BENZENE UG/L	XYLENES UG/L	OIL & GREASE MG/L	PAH UG/L	
		REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE
		00056	00400	01114	34030	34010	34371	81551	00550	22456	
01											
02											
03											
04											
05											
06											
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16											
17											
18											
19											
20											
21		2583	7.14	AA 0.13	AA 0.39	AA 0.42	AA 0.41	AA 1.3	1.3	AA 0.008	
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL		2,583									
AVG.		83.3									
MAX											
MIN.											

ADDITIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA = Below Laboratory Method Detection Limits

DISTRIBUTION
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FORM NO EPA 4500 (8-91)
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DATE REPORT COMPLETE	SIGNATURE OF REPORTER	TITLE OF REPORTER
1/15/2010		Corporate Manager, Environmental

MONTHLY REPORT FORM **4500** Ohio EPA

NAME, ADDRESS CITY, COUNTY, ZIP	STATION CODE	DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION NO.
SPEEDWAY STORE #3642 939 Dixie Highway Rossford, Ohio 43460	2GU00099*AG	January 2010	1 OF 1		

SAMPLING STATION DESCRIPTION
001 AFTER CARBON FILTERS PRIOR TO DISCHARGE TO STORM

NOTE: THIS FORM MUST BE TYPED

IN(1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB
IN(2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB

ANALYST

ENTERED ANALYSIS PERFORMED AND CODE NO AT RIGHT											
	(1)	1	3	3	3	3	3	3	3		
	(2)	001	001	001	001	001	001	001	001		
		FLOW GPD	pH S.U.	LEAD TOT.REC. UG/L	BENZENE UG/L	TOLUENE UG/L	ETHYL-BENZENE UG/L	XYLENES UG/L	OIL & GREASE MG/L		
DAY		REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE
		00056	00400	01114	34030	34010	34371	81551	00550		
01											
02											
03											
04		80	7.13	AA 1.0	AA 1.0	AA 1.0	AA 1.0	AA 3.0	AA 2.5		
05											
06											
07											
08											
09											
10											
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19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
TOTAL		80									
AVG.		2.6									
MAX											
MIN.											

ADDITIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)
AA = Below Laboratory Method Detection Limits

DISTRIBUTION
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FORM NO EPA 4500 (8-91)
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DATE REPORT COMPLETE	SIGNATURE OF REPORTER	TITLE OF REPORTER
2/15/2010		Corporate Manager, Environmental

APPENDIX D

PURGE LOGS

GROUNDWATER PURGING REPORT

Client	SSA #3642	Location	Rossford, Ohio		
ATC Personnel	Derek Egli	Project #	08.75116.0612	Date	01/25/10

MW #	WELL DIAMETER (In Inches)	WELL DEPTH (In Feet)	DEPTH TO WATER (In Feet)	DEPTH TO LNAPL (In Feet)	WATER COLUMN HEIGHT (In Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES
MW-1	2	33.9	11.4	NA	22.5	3.7	11.0	Purged Dry	17:10	
MW-2	2	39.7	20.98	NA	18.72	3.1	9.2	Purged Dry	18:10	
MW-3	2	40.5	22.78	NA	17.72	2.9	8.7	Purged Dry	18:20	
MW-4	2	15.7	8.18	NA	7.52	1.2	3.7	3.7	18:50	
MW-5	2	31	8.61	NA	22.39	3.6	10.9	Purged Dry	18:40	
MW-6	2	37.6	16.35	NA	21.25	3.5	10.4	Purged Dry	18:00	
MW-7	2	18.7	7.74	NA	10.96	1.8	5.4	5.4	17:50	
MW-8	2	15	10.84	NA	4.16	0.7	2.0	Purged Dry	17:20	
MW-9	2	14.3	6.8	NA	7.5	1.2	3.7	Purged Dry	17:30	
MW-10	2	21.6	10.19	NA	11.41	1.9	5.6	5.6	17:40	duplicate
MW-11	2	22	8.6	NA	13.4	2.2	6.6	6.6	18:30	

1" = 0.041 2" = 0.163 4" = 0.653 6" = 1.47

ATC ASSOCIATES INC.
Engineering Individual Solutions

10020 Brecksville Road
Brecksville, OH 44141-3219
www.atcassociates.com
440-838-7177
Fax 440-838-7181

INTERIM RESPONSE ACTION NOTIFICATION REPORT

Speedway SuperAmerica LLC Store #3642
939 Dixie Highway
Rossford, Ohio 43460
Wood County
BUSTR Release #87000087-N00002

Prepared for:

Mr. Adam M. Campbell
Environmental Representative
SPEEDWAY SUPERAMERICA LLC
P.O. BOX 1500
Springfield, Ohio 45501

Prepared by:

ATC Associates Inc.
10020 Brecksville Road
Brecksville, Ohio 44141

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STATE FIRE MARSHAL

Nathan Saraceno
Project Geologist

Travis Bukach, PG, CHMM
Project Manager

March 31, 2009

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2.0 BACKGROUND INFORMATION **1**
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3.0 GROUNDWATER MONITORING PLAN RESULTS **2**
3.1 Monitoring Plan Results 2
4.0 CONCLUSIONS **2**
5.0 INTERIM RESPONSE ACTION NOTIFICATION **3**

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Figure 4 Potentiometric Surface Map – October 2, 2007

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Table 3 BTEX/MTBE Groundwater Analytical Results
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Appendix A Interim Response Action Notification Form

1.0 INTRODUCTION

ATC Associates Inc. (ATC) was retained by Speedway SuperAmerica LLC (SSA) to prepare an Interim Response Action (IRA) Notification for SSA Store #3642 located at 939 Dixie Highway in Rossford, Wood County, Ohio (**Figures 1 & 2**). Three quarters of groundwater monitoring and sampling activities were conducted at the site in February, June, and October 2007, in accordance with the site-specific groundwater monitoring plan outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* (dated December 2006). Results of the monitoring plan determined that an IRA is necessary at the site to stabilize and decrease concentrations of methyl tertiary butyl ether (MTBE) in groundwater. Historical soil and groundwater analytical results have been included in **Tables 1** through **4** and the most recent groundwater analytical results have been illustrated on **Figure 3** for reference.

2.0 BACKGROUND INFORMATION

2.1 Site Description

SSA Store #3642 is an active gasoline retail facility located at 41° 36' 18" North, 83° 33' 44" West on the Rossford, Ohio United States Geological Survey (USGS), 7.5-minute topographic quadrangle (1980) (**Figure 1**). The site is located on the east corner of the intersection of Dixie Highway and Rossway Avenue in a mixed commercial and residential area of Rossford, Ohio. The surrounding properties consist of residential properties to the northwest across Dixie Highway, a bowling alley to the south across Rossway Avenue, and a strip mall and parking lot to the north and east.

The Bureau of Underground Storage Tank Regulations (BUSTR) issued a release in 1997, based on the presence of free product in the storm sewers and nearby Grassy Creek. The chemicals of concern are associated with BUSTR's Analytical Group 1: benzene, toluene, ethylbenzene and total xylenes (BTEX), and MTBE.

Current features located at the site include the following:

- Sales building with restrooms.
- Grassy Creek lies to the north of the property.
- Aboveground utilities: electric and telephone.
- Underground utilities: natural gas, electric, sanitary sewer, storm sewer, and water.
- The underground storage tank (UST) systems consist of the following:
  - One 8,000-gallon gasoline UST (installed January 1967).
  - Two 6,000-gallon gasoline USTs (installed in January 1967).
  - Associated dispensers and piping.
- Former UST Components
  - One 550-gallon used oil UST (removed in July 1997).
  - Three gasoline dispensers and associated piping (removed in July 1997).

3.0 GROUNDWATER MONITORING PLAN RESULTS

As summarized in the *Monitoring Plan Completion Report* dated November 9, 2007, ATC conducted groundwater monitoring and sampling in accordance with the site-specific Tier 3 Monitoring Plan (outlined in the previously submitted *Tier 2 Addendum #2/Tier 3 Plan* dated December 2006). The groundwater monitoring plan was conducted to demonstrate that MTBE concentrations had stabilized or decreased over-time; however, results of the additional sampling demonstrated that chemical of concern concentrations are increasing and possibly migrating from the source area. The following summarizes the results obtained for the groundwater monitoring plan.

3.1 Monitoring Plan Results

Results of the three quarters of groundwater sampling, conducted in accordance with the December 2006 Groundwater Monitoring Plan, indicate the following results:

- Groundwater analytical results obtained from monitoring wells MW-1, MW-2, MW-3, MW-6, MW-7, and MW-9 continue to demonstrate benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) concentrations below laboratory method detection limits. Groundwater collected from MW-8 on October 2, 2007 indicated a minor detection (0.0017 ppm) for MTBE.
- MTBE concentrations detected in MW-4 and MW-5 continue to exceed Tier 2 Site Specific Target Levels (SSTLs). Additionally, MTBE concentrations have increased in excess of the Tier 2 SSTL in monitoring well MW-10.
- Measurable free product (0.03 feet) was observed in monitoring well MW-4 on June 7, 2007; subsequently, MW-4 was not sampled during the second groundwater sampling event. Furthermore, analytical results obtained from samples collected from MW-4 on July 27, 2007 and October 2, 2007 demonstrate stable to slightly increasing concentrations for BTEX and MTBE constituents.
- BTEX and MTBE concentrations have stabilized or generally increased over time in monitoring wells MW-4, MW-5, and MW-10.

4.0 CONCLUSIONS

Based on the results of historical investigations and the results presented in this report, the following conclusions can be made regarding BUSTR Release #72000103-N00002:

- Chemicals of concern concentrations have stabilized or generally increased over time.
- All onsite concentrations of chemicals of concern in groundwater remained below the calculated SSTLs for the duration of the groundwater monitoring plan, with the exception of MTBE in MW-4, MW-5, and MW-10.
- Concentrations of chemicals of concern in all soil samples collected onsite do not exceed Tier 2 SSTLs.

Based on these conclusions, ATC recommends that an (IRA) be conducted at the site. The IRA will consist of high vacuum dual-phase recovery for a period of three months via a rented mobile treatment unit (MTU) followed by four quarters of groundwater monitoring. The details of the IRA are outlined in the following section.

5.0 INTERIM RESPONSE ACTION NOTIFICATION

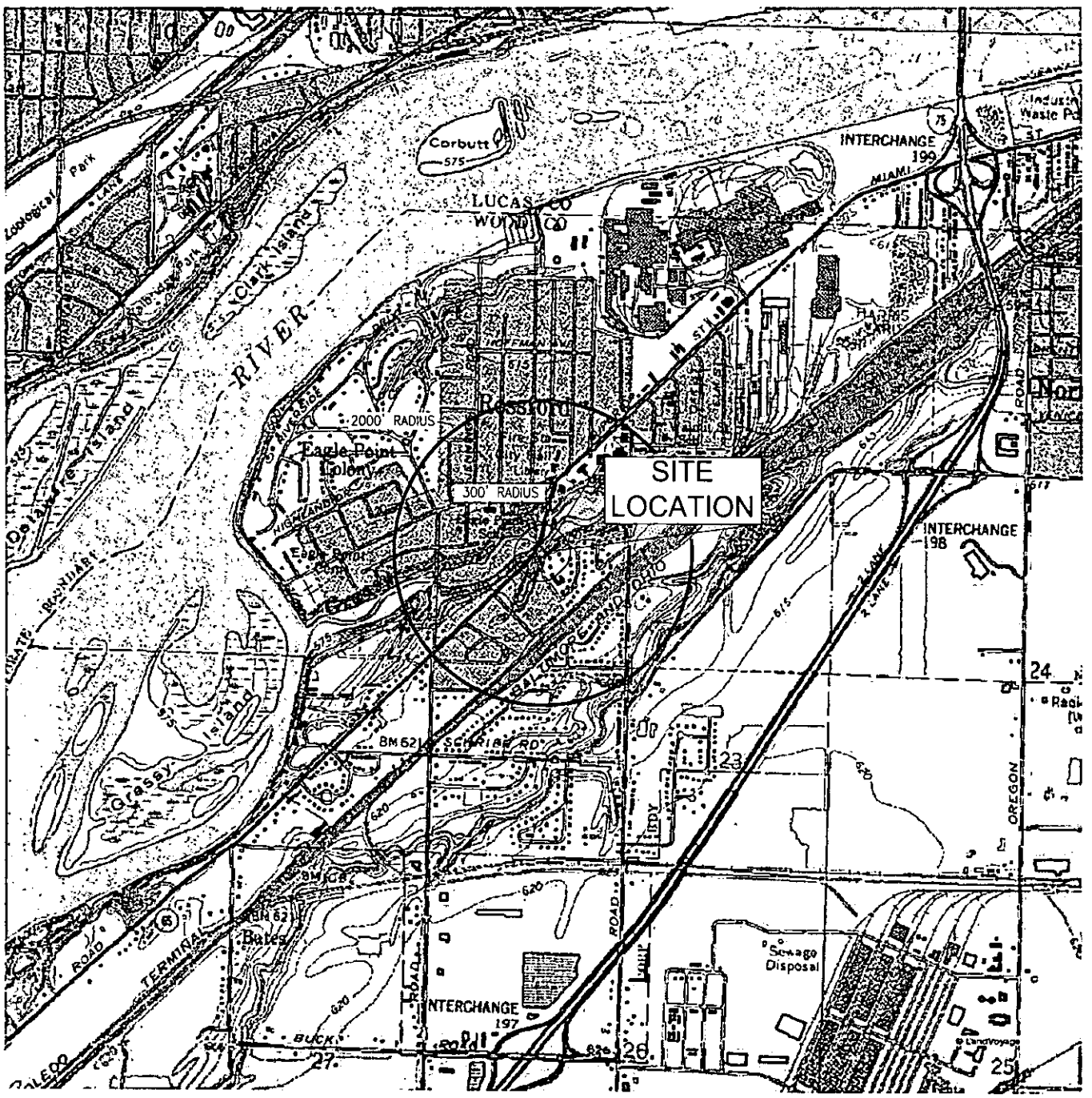
To decrease dissolved MTBE concentrations onsite, ATC proposes to conduct an IRA consisting of high vacuum dual-phase recovery for a period of three months. Monitoring well MW-5 will be converted to a two-inch recovery well and an additional recovery well will be installed southwest of MW-4 to avoid active product lines. Depth to fluid measurements, well development, and an initial groundwater sampling event will be conducted for all wells prior to implementing the recovery activities in order to obtain baseline readings. Depth to fluid measurements and vacuum response readings will then be collected on a monthly basis from surrounding wells to document the radius of influence due to high-vacuum recovery at the site.

Quarterly groundwater sampling will be implemented upon completion of the liquid recovery to evaluate the effectiveness of the liquid recovery activities. Four quarters of groundwater monitoring will be conducted from all wells. Samples will be submitted to a SSA approved laboratory and analyzed for BTEX and MTBE by U.S EPA Method 8260B. Results of the well development, baseline sampling, three months liquid recovery, and initial sampling event will be summarized in an IRA Implementation Report. Quarterly update reports will be completed after each of the remaining groundwater sampling events.

A Notice of Intent (NOI) application will be submitted to the Ohio EPA to permit discharge under the National Pollutant Discharge Elimination System (NPDES) and monthly Discharge Monitoring Reports (DMRs) will be submitted to the OEPA in accordance with the NPDES permit. During system operation, samples of influent, mid-carbon, and effluent water will be collected on a regular schedule and submitted for laboratory analysis, and the volume of water discharged through the system will be recorded to document compliance within the permitted discharged parameters.

If groundwater analytical results indicate MTBE concentrations have stabilized or show a decreasing trend, a new Tier 3 Work Plan will be proposed to calibrate the Fate and Transport Model (BIOSCREEN) for MTBE. If MTBE in groundwater continues to demonstrate an increasing trend, data obtained from the IRA (i.e.: dual-phase radius of influence, pumping rate, etc.) will be used to develop a Remedial Action Plan (RAP) to consist of prolonged liquid recovery.

The IRA Notification Form for the proposed IRA activities is included in **Appendix A** and a cost estimate is presented as **Table 5**.



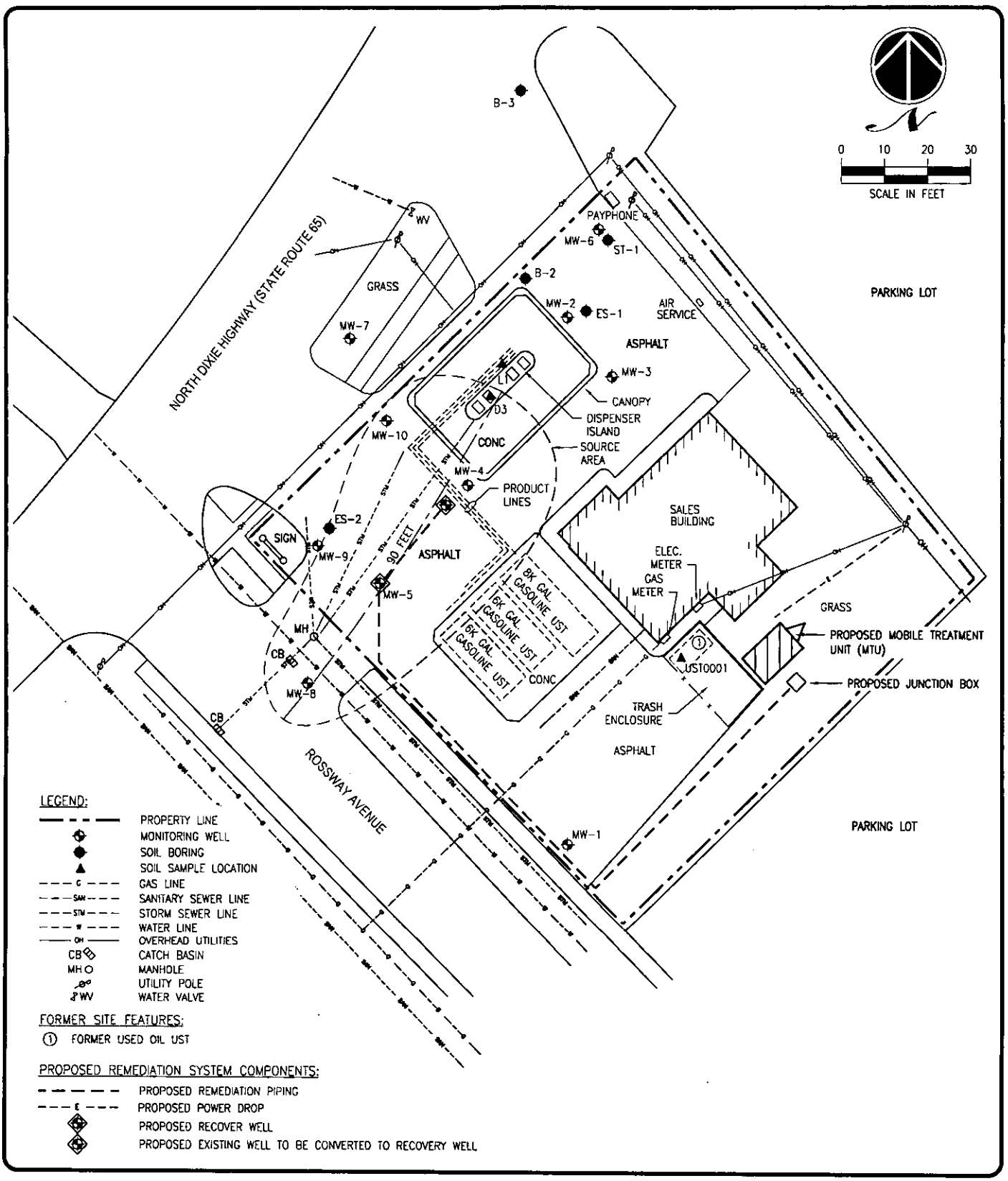
...SSA3642-SLM.DWG 11/10/06

VATC ASSOCIATES INC.

DATE: 11/9/07	PROJECT NO.: 08.75116.0309
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: TSB	FIGURE 1

SITE LOCATION MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



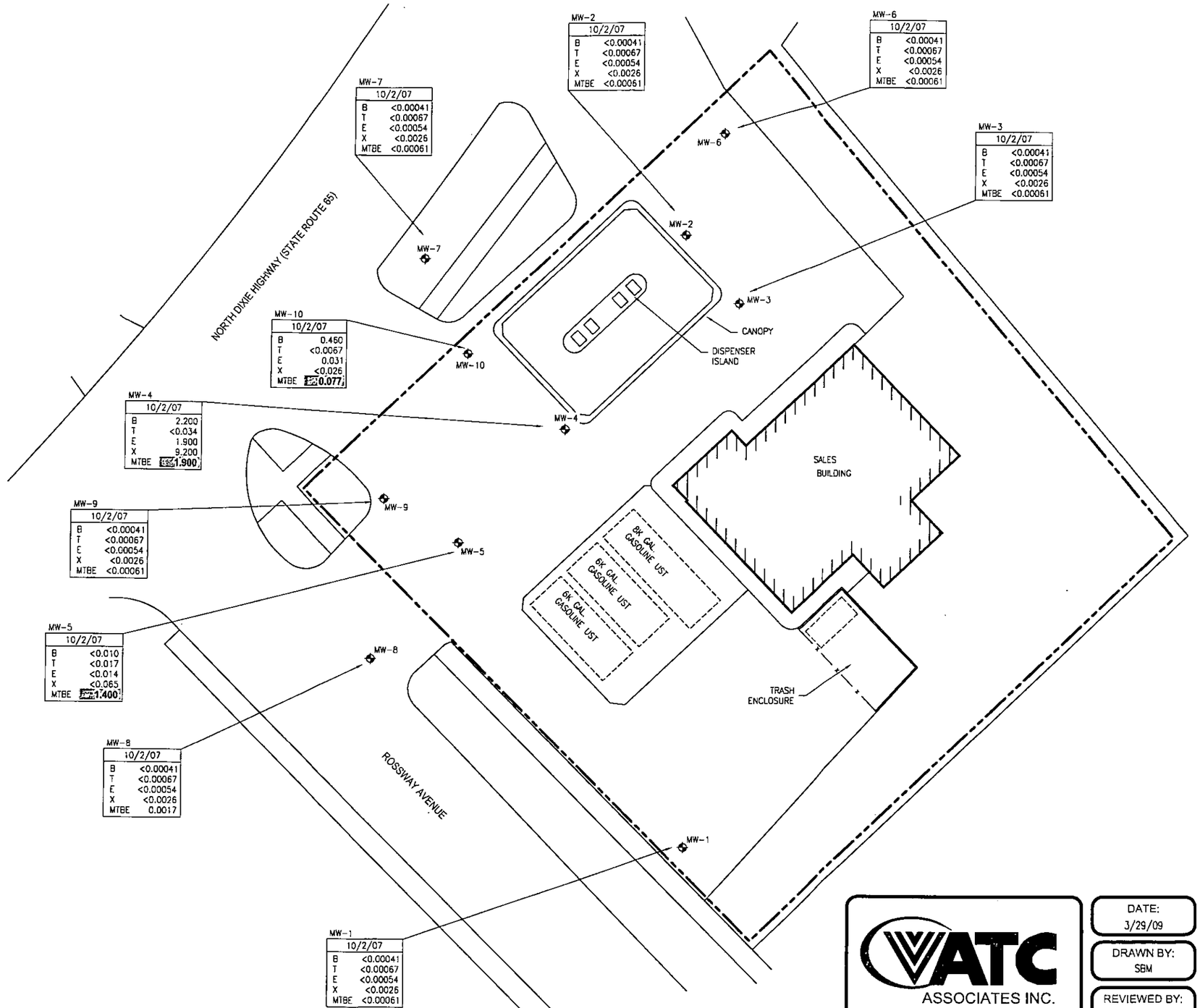
...SSA3642-01.dwg 11/10/06

VATC ASSOCIATES INC.

DATE: 2/12/09	PROJECT NO.: 008.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: NS	FIGURE 2

SITE MAP

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



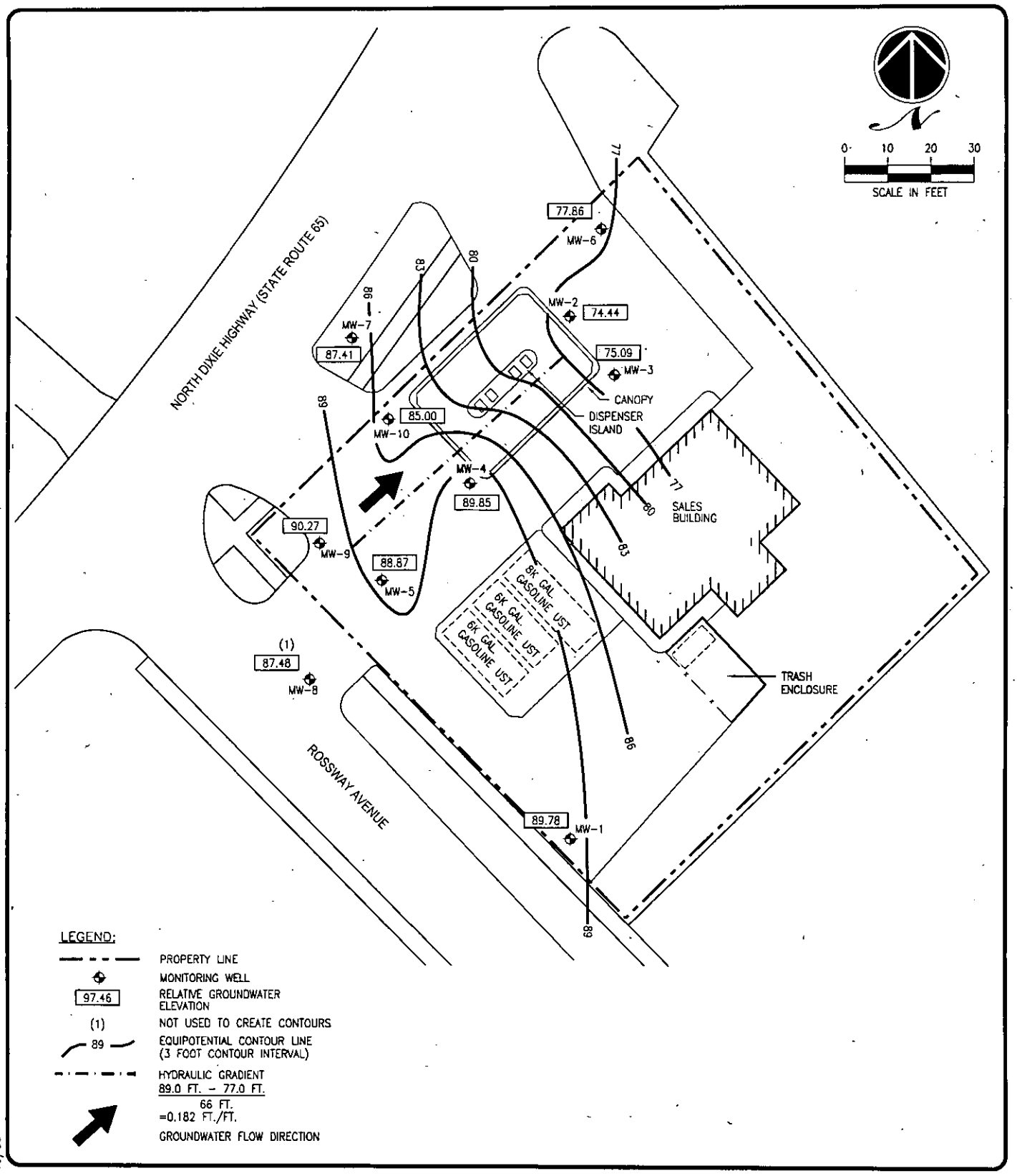
VATC ASSOCIATES INC.

DATE: 3/29/09	PROJECT NO: 008.75116.0557
DRAWN BY: SBM	SCALE: 1" = 20'
REVIEWED BY: NS	FIGURE 3

GROUNDWATER ANALYTICAL MAP
OCTOBER 2, 2007

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...SSA3635-02.dwg 3/29/09



11/10/06

...SSA3642-01.dwg

VATC ASSOCIATES INC.

DATE: 1/28/09	PROJECT NO.: 08.75116.0557
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: NS	FIGURE 4

POTENTIOMETRIC SURFACE MAP
2 OCTOBER 2007

SPEEDWAY SUPERAMERICA, LLC
SSA #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.24**	**112**	**131**	**147.4**	**.89**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
Action Levels - Grab Soil Sample location				**9.51**	**112**	**131**	**147.4**	**NA**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	< 0.002	< 0.002	< 0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	< 0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
UST001 (6)	UST001 (6)	07/15/1997	00:00	< 0.005	< 0.005	< 0.005	< 0.010	
Action Levels - On Site Soil Boring				**9.51**	**112**	**131**	**147.4**	**.89**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	< 0.002	< 0.002	< 0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	< 0.002	< 0.002	< 0.002	< 0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	< 0.002	< 0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	< 0.010	< 0.010	< 0.030	< 0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	< 0.050	0.100	0.400	5.660	< 0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	< 0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	< 0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	< 0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	< 0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	< 0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	< 0.010	< 0.010	< 0.010	< 0.030	< 0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	< 0.001	< 0.001	< 0.001	< 0.002	< 0.002
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	< 0.001	< 0.001	0.017	< 0.002
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	< 0.001	< 0.001	0.840	5.100	< 0.002

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5**	**1000**	**700**	**10000**	**40**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								TRIP BLANK	05/19/2004	00:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	04/28/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	08/03/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	10/11/2005	12:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
								TRIP BLANK	02/21/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	06/07/2007	00:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								TRIP BLANK	10/02/2007	00:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-01								MW-1	07/15/1997	00:00	< 2.000	< 2.000	< 2.000	< 4.000	
								MW-1	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-1	03/24/2004	05:35	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-1	06/16/2004	05:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-01	06/07/2007	12:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-02								MW-2	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-2	03/24/2004	05:24	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-2	06/16/2004	05:11	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-02	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-03								MW-3	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-3	03/24/2004	05:28	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-3	06/16/2004	05:06	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
								MW-03	06/07/2007	12:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	**2600.000**
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	**110.000**
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	**1600.000**
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	**850.000**
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	**2000.000**
								MW-4	06/16/2004	05:24	5300.000	< 0.240	3600.000	15000.000	**3000.000**
	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	< 0.240	4100.000	16000.000	**2800.000**
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	< 0.240	2600.000	12000.000	**2600.000**
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	< 0.240	2400.000	11000.000	**1500.000**
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	**2290.000**
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-04	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	**1700.000**
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	< 34.000	1900.000	9200.000	**1900.000**
MW-05								MW-5	04/11/2002	00:00	1.800	< 1.000	1.200	< 4.700	**270.000**
								MW-5	12/20/2002	00:00	4.800	< 1.000	3.000	< 15.000	**500.000**
	02/19/2003	00:00	97.91	87.24	10.67			MW-5	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	**630.000**
								MW-5	06/18/2003	00:00	1.500	< 1.000	1.400	< 7.600	**910.000**
								MW-5	03/24/2004	05:46	< 0.000	< 0.000	< 0.000	< 0.000	**990.000**
								MW-5	06/16/2004	05:21	< 0.250	< 0.240	< 0.240	< 0.270	**1200.000**
	06/02/2005	09:14	97.91	88.91	9			MW-5	06/02/2005	09:59	< 0.250	< 0.240	< 0.240	12.000	**1520.000**
	09/19/2005	13:30	97.91	88.91	9			MW-5	09/19/2005	14:05	< 0.250	< 0.240	< 0.240	< 0.270	**1700.000**
	01/19/2006	10:07	97.91	89.47	8.44			MW-5	01/19/2006	10:33	< 0.250	< 0.240	< 0.240	< 0.270	**680.000**
	02/16/2007	00:00	97.91	88.71	9.2										
	02/21/2007	00:00	97.91	89.11	8.8			MW-5	02/21/2007	11:38	< 2.000	< 2.000	< 2.000	< 1.500	**1190.000**
	06/07/2007	12:10	97.91	89.16	8.75			MW-05	06/07/2007	12:10	< 2.000	< 2.000	< 2.000	< 1.500	**1060.000**
	10/02/2007	08:15	97.91	88.87	9.04			MW-05	10/02/2007	08:15	< 10.000	< 17.000	< 14.000	< 65.000	**1400.000**
MW-06								MW-6	04/11/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-6	03/24/2004	05:21	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-6	06/16/2004	05:09	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	97.09	90.04	7.05										
	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10000**	**1000**	**10000**	**100000**	**40**
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	< 0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	< 0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	< 2.000	19.000	15.000	**66.000**
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	< 6.700	31.000	< 26.000	**77.000**
Action Levels - Off Site Monitoring Well											**5**	**1000**	**700**	**10000**	**40**
MW-07								MW-7	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	< 1.000	< 1.000	1.100	< 5.600	< 4.000
								MW-7	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	< 4.000
								MW-7	03/24/2004	05:50	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								MW-7	06/16/2004	05:15	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	< 0.410	< 0.670	< 0.540	< 2.600	< 0.610
MW-08								MW-8	02/19/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	12.000
								MW-8	12/20/2002	00:00	< 1.000	< 1.000	< 1.000	< 3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	< 1.000	< 1.000	< 1.000	< 3.000	15.000
								MW-8	03/24/2004	05:40	< 0.000	< 0.000	< 0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	< 0.250	< 0.240	< 0.240	< 0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	< 0.250	< 0.240	< 0.240	< 0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	< 0.250	< 0.240	< 0.240	< 0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210
	02/16/2007	00:00	98.78	86.48	12.3										
	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	< 0.400	< 0.400	< 0.400	< 0.300	< 0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	< 0.410	< 0.670	< 0.540	< 2.600	1.700
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5**	**1000**	**700**	**10000**	**40**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	< 0.000	< 0.000	< 0.000	< 0.000	< 0.000
								EQUIPMENT BLANK	06/16/2004	05:00	< 0.250	< 0.240	< 0.240	< 0.270	< 0.210

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L
	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway SuperAmerica #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L
	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

Table 5 - IRA Cost Estimate

SSA Store #3642 Rossford, Ohio Summary of work: Discharge permitting, NPDES DMRs, well installation, initial GW sampling event, subgrade/vault install, system start-up, MTU recovery (3 months), IRA Implementation Report / Monitoring Plan.		PROJECT TOTALS		TASK 1 OEPA Notification, NPDES NOI, DMRs (8)		TASK 2 Recovery Well Installation / Conversion		TASK 3 Well Development /GW Sampling Event (baseline)		TASK 4 Subgrade/vault install		TASK 5 MTU Start-Up & Recovery (3 months)		TASK 6 IRA Implementation Report / Monitoring Plan	
LABOR	**RATE**	Hrs	Amount	Hrs	Amount			Hrs	Amount	Hrs	Amount			Hrs	Amount
Principal	$90	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Senior Project Manager	$90	9	$810	2	$180	0	$0	0	$0	2	$180	3	$270	2	$180
Project Manager	$82	28	$2,296	2	$164	2	$164	2	$164	8	$656	12	$984	2	$164
Engineer/Scientist (Hydro)	$75	28	$2,100	4	$300	0	$0	0	$0	0	$0	0	$0	24	$1,800
Geologist	$65	58	$3,770	20	$1,300	12	$780	0	$0	24	$1,560	0	$0	2	$130
Project Manager Assistant	$55	13	$715	4	$220	1	$55	2	$110	2	$110	3	$165	1	$55
Technician	$55	100	$5,500	0	$0	0	$0	24	$1,320	0	$0	76	$4,180	0	$0
Drafting	$48	6	$288	2	$96	0	$0	0	$0	0	$0	0	$0	4	$192
Clerical/Administrative	$38	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL LABOR		242	$15,479	34	$2,260	15	$999	28	$1,594	36	$2,506	94	$5,599	35	$2,521
TOTAL SUBCONTRACTORS			$42,152		$0		$2,352		$300		$18,000		$21,500		$0
TOTAL LABORATORY			$4,480		$0		$256		$1,800		$384		$2,040		$0
TOTAL EXPENSES			$5,571		$220		$310		$825		$880		$3,336		$0
TOTAL ESTIMATED COSTS			$67,682		$2,480		$3,917		$4,519		$21,770		$32,475		$2,521

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 OEPA Notification, NPDES NOI, DMRs (8)		TASK 2 Recovery Well Installation / Conversion		TASK 3 Well Development /GW Sampling Event (baseline)		TASK 4 Subgrade/vault install		TASK 5 MTU Start-Up & Recovery (3 months)		TASK 6 IRA Implementation Report / Monitoring Plan	
SUBCONTRACTORS	**RATE**	Units	Amount	Units	Amount			Units	Amount	Units	Amount		Units		Amount
Drum Removal	$100	3	$400		$0	1	$100	3	$300		$0		$0		$0
Team - MTU mob/demob/carbon/start-up	$4,500	0	$4,500		$0		$0		$0		$0	1	$4,500		$0
Team - subgrade	$16,500	1	$16,500		$0		$0		$0	1	$16,500		$0		$0
MTU Rental	$5,000		$15,000				$0		$0			3	$15,000		
Electrical Power Drop (Estimate)	$2,000		$2,000				$0		$0			1	$2,000		
Soil T&D per ton	$30	50	$1,500		$0		$0		$0	50	$1,500		$0		$0
Drillers	$2,252		$2,252		$0	1	$2,252		$0		$0		$0		$0
TOTAL SUBCONTRACTORS			**$42,152**		**$0**		**$2,352**		**$300**		**$18,000**		**$21,500**		**$0**
LABORATORY															
Water/Soil - BTEX/MTBE	$75	27	$2,175		$0	2	$150	24	$1,800	3	$225		$0	0	$0
Soil - TPH GRO	$53	3	$265		$0	2	$106		$0	3	$159		$0	0	$0
Vapor - BTEX & TPH	$75	4	$300		$0		$0		$0		$0	4	$300	0	$0
Discharge Samples	$435	4	$1,740		$0		$0		$0		$0	4	$1,740	0	$0
TOTAL LABORATORY COSTS			**$4,480**		**$0**		**$256**		**$1,800**		**$384**		**$2,040**		**$0**
EXPENSES															
Mileage	$0.50	1500	$875		$0	250	$125	500	$250	250	$125	750	$375		$0
Lodging	$75.00	2	$150		$0		$0		$0	2	$150		$0		$0
Meals	$25.00	2	$50		$0		$0		$0	2	$50		$0		$0
Health & Safety Kit	$10.00	8	$90		$0	1	$10	2	$20	3	$30	3	$30		$0
Misc. Expenses (gloves, Shipping, Ect..)	$50.00	8	$450		$0	1	$50	2	$100	3	$150	3	$150		$0
PID	$65.00	6	$455		$0	1	$65		$0	3	$195	3	$195		$0
Tedlar bags	$12.00	3	$36		$0		$0		$0		$0	3	$36		$0
Interface probe	$50.00	8	$450		$0	1	$50	2	$100	3	$150	3	$150		$0
Carbon	$400.00	1	$400		$0		$0		$0		$0	1	$400		$0
Vacuum gauges	$10.00	0	$0		$0		$0		$0		$0		$0		$0
Survey Equipment/GPS	$175.00	1	$175		$0		$0	1	$175		$0		$0		$0
Permitting Fee	$220.00	1	$220	1	$220		$0		$0		$0		$0		$0
Disposable Bailers	$8.00	20	$160		$0		$0	20	$160		$0		$0		$0
Rope	$10.00	2	$20		$0		$0	2	$20		$0		$0		$0
Digital Camera	$10.00	3	$40		$0	1	$10		$0	3	$30		$0		$0
Utilities	$500.00	4	$2,000		$0		$0		$0		$0	4	$2,000		$0
TOTAL EXPENSES			$5,571		$220		$310		$825		$880		$3,336		$0

Table 5 - Cost Estimate (cont)

SSA Store #3642 Rossford, Ohio Summary of work: Monitoring Plan: Four quarterly GW sampling events, three quarterly reports, IRA Completion Report w/ Tier 3 Work Plan.		PROJECT TOTALS		TASK 1 GW Sampling Events (4)		TASK 2 Quarterly Update Reports (3)		TASK 3 IRA Completion Report / Tier 3 Work Plan		TASK 4		TASK 5		TASK 6	
LABOR	**RATE**	Hrs	Amount	Hrs	Amount			Hrs	Amount	Hrs	Amount			Hrs	Amount
Principal	$90	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Senior Project Manager	$90	5	$450	0	$0	3	$270	2	$180	0	$0	0	$0	0	$0
Project Manager	$82	9	$738	4	$328	3	$246	2	$164	0	$0	0	$0	0	$0
Engineer/Scientist (Hydro)	$75	30	$2,250	0	$0	6	$450	24	$1,800	0	$0	0	$0	0	$0
Geologist	$65	34	$2,210	0	$0	30	$1,950	4	$260	0	$0	0	$0	0	$0
Project Manager Assistant	$55	8	$440	4	$220	3	$165	1	$55	0	$0	0	$0	0	$0
Technician	$55	48	$2,640	48	$2,640	0	$0	0	$0	0	$0	0	$0	0	$0
Drafting	$48	6	$288	0	$0	6	$288	0	$0	0	$0	0	$0	0	$0
Clerical/Administrative	$38	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL LABOR		140	$9,016	56	$3,188	51	$3,369	33	$2,459	0	$0	0	$0	0	$0
TOTAL SUBCONTRACTORS			$400		$400		$0		$0		$0		$0		$0
TOTAL LABORATORY			$3,696		$3,696		$0		$0		$0		$0		$0
TOTAL EXPENSES			$1,100		$1,100		$0		$0		$0		$0		$0
TOTAL ESTIMATED COSTS			$14,212		$8,384		$3,369		$2,459		$0		$0		$0

EXPENSE DETAILS		PROJECT TOTALS		TASK 1 GW Sampling Events (4)		TASK 2 Quarterly Update Reports (3)		TASK 3 IRA Completion Report / Tier 3 Work Plan		TASK 4		TASK 5		TASK 6	
SUBCONTRACTORS	**RATE**	Units	Amount	Units	Amount			Units	Amount	Units	Amount			Units	Amount
Drum Removal	$100	4	$400	4	$400		$0		$0		$0		$0		$0
Team - MTU mob/demob/carbon/start-up	$4,500	0	$0		$0		$0		$0		$0		$0		$0
Team - subgrade	$10,000	0	$0		$0		$0		$0		$0		$0		$0
Electrical Power Drop	$2,000		$0				$0		$0				$0		
Soil T&D per ton	$30	0	$0		$0		$0		$0		$0		$0		$0
Drillers	$1,000		$0		$0		$0		$0		$0		$0		$0
TOTAL SUBCONTRACTORS			**$400**		**$400**		**$0**		**$0**		**$0**		**$0**		**$0**
LABORATORY															
Water/Soil - BTEX/MTBE (8260)	$77	48	$3,696	48	$3,696		$0		$0		$0		$0		$0
Soil - TPH GRO	$53	0	$0		$0		$0		$0		$0		$0		$0
Vapor - BTEX & TPH	$75	0	$0		$0		$0		$0		$0		$0		$0
Discharge Samples	$435	0	$0		$0		$0		$0		$0		$0		$0
TOTAL LABORATORY COSTS			**$3,696**		**$3,696**		**$0**		**$0**		**$0**		**$0**		**$0**
EXPENSES															
Mileage	$0.50	1000	$500	1000	$500		$0		$0		$0		$0		$0
Lodging	$75.00	0	$0		$0		$0		$0		$0		$0		$0
Meals	$25.00	0	$0		$0		$0		$0		$0		$0		$0
Health & Safety Kit	$10.00	4	$40	4	$40		$0		$0		$0		$0		$0
Misc. Expenses (gloves, Shipping, Ect..)	$50.00	4	$200	4	$200		$0		$0		$0		$0		$0
PID	$65.00	0	$0		$0		$0		$0		$0		$0		$0
Tedlar bags	$12.00	0	$0		$0		$0		$0		$0		$0		$0
Interface probe	$50.00	0	$0		$0		$0		$0		$0		$0		$0
Vacuum air pump	$10.00	0	$0		$0		$0		$0		$0		$0		$0
Vacuum gauges	$10.00	0	$0		$0		$0		$0		$0		$0		$0
Survey Equipment/GPS	$175.00	0	$0		$0		$0		$0		$0		$0		$0
Permitting Fee	$220.00	0	$0		$0		$0		$0		$0		$0		$0
Disposable Bailers	$8.00	40	$320	40	$320		$0		$0		$0		$0		$0
Rope	$10.00	4	$40	4	$40		$0		$0		$0		$0		$0
Digital Camera	$10.00	0	$0		$0		$0		$0		$0		$0		$0
Public Notice Fee	$1,500.00	0	$0		$0		$0		$0		$0		$0		$0
TOTAL EXPENSES			$1,100		$1,100		$0		$0		$0		$0		$0

Interim Response Action Notification Checklist (page 1 of 1)

Submit to BUSTR 10 days prior to initiating IRA.

Contact Person:	Adam Campbell
Phone Number:	937-863-7931
Facility Name:	Speedway SuperAmerica # 3642
Facility Address:	939 Dixie Highway
	Rossford, Ohio
County:	Wood
Facility Number:	87000087
Site Longitude/Latitude:	41° 36' 18.0" North, 83° 33' 44.0" West

Indicate page number for each item below.

IRA Report Must Include:

Page 3	Description of IRA;**
Page 3	Anticipated length of time to complete IRA;**
N/A	Site map indicating limits of proposed excavation (if applicable);
N/A	Anticipated volume of soil to be removed in cubic yards (if applicable);**
Page 3	Proposed confirmatory sampling plan (if applicable).

** Obtain prior approval from BUSTR if:

- The total volume of soil is estimated to exceed 800 yd^3;
- The anticipated time for completion is greater than 3 mo.;
- More than 1 (one) IRA must be conducted during any tier evaluation.

Preparer Name Nathan Saraceno Preparer Signature _____ Date 03/31/2009

O/O Name Adam Campbell O/O Signature _____ Date 03/31/2009

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TIER 3 EVALUATION REPORT

Speedway #3642
Release #87000087-N00002

939 Dixie Highway
Rossford, Ohio
Lucas County

Prepared for:

Mr. Ryan T. Sabol
Environmental Representative
SPEEDWAY LLC
P.O. Box Box 1500
Springfield, Ohio 45501

Prepared by:

Cardno ATC
Shaping the Future

8100 Snowville Road
Brecksville, Ohio 44141

Cherie Howell
Project Scientist

Kimberly Kroenke
Project Manager

February 11, 2015

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1.0 INTRODUCTION

Cardno ATC was retained by Speedway LLC (Speedway) to perform a Tier 3 Evaluation, groundwater sampling, and soil boring installation and sampling at Speedway Store #3642 located at 939 Dixie Highway, Rossford, Lucas County, Ohio. The topographic map is included as **Figure 1.** The site map depicting the facility, dispensers and underground storage tank (UST) cavity is included as **Figure 2**. The report presents analytical results of the groundwater sampling events that took place on August 12, and November, 11, 2014 and soil analytical results with geotechnical and fractional organic carbon (foc) data as well as the results of the Tier 3 Evaluation. The *Tier 3 Evaluation Plan* was approved by the Bureau of Underground Storage Tank Regulations (BUSTR) in their letter dated June 28, 2012, following their review of the *Supplemental Tier 3 Work Plan* dated July 25, 2011. The Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) pre-approval letter was received on September 2, 2011 and correspondence is provided in **Appendix A**. The Tier 3 Evaluation was implemented in accordance with the Ohio Administrative Code 1301: 7-9-13(O) effective March 1999. BUSTR correspondence is provided in **Appendix A**.

The Tier 3 Evaluation, groundwater monitoring and sampling, and additional soil borings were performed in order to further evaluate the Groundwater Ingestion Pathway and address the remaining MTBE groundwater concentrations above Site Specific Target Levels (SSTLs) following the Interim Response Action (IRA) groundwater remedial events completed in 2009. Using the recently completed two (2) quarters of groundwater monitoring along with existing groundwater analytical data as appropriate, the evaluation was performed to allow calculation of a site specific range of degradation rates and solute half-life values for methyl tertiary butyl ether (MTBE) according to the method described in Appendix G.6.2 of the BUSTR 2005 *Technical Guidance Manual* (TGM). In addition, a hydraulic conductivity evaluation was performed according to *Appendix G.6.1* of the 2005 TGM, using the existing slug test data from monitoring wells MW-4, MW-6, MW-7 and MW-8 (February 19, 2003) to determine the allowable range of hydraulic conductivity values that can be used in the fate and transport model calibration. With the solute half-life values and hydraulic conductivity values, the BUSTRSCREEN fate and transport model calibration was performed and an MTBE SSTL was determined.

Soil analytical results are presented in **Tables 1** and **2** and **Figure 3**. Groundwater results are presented in **Tables 3** and **4** and **Figure 4**.

2.0 GROUNDWATER MONITORING AND SAMPLING

2.1 Groundwater Monitoring and Sampling Methodology

On August 12 and November 11, 2014, Cardno ATC was onsite to obtain depth-to-water measurements and to collect groundwater samples from all monitoring wells. Upon arrival all monitoring wells were opened and allowed to equilibrate. Groundwater gauging measurements were collected with an oil/water interface probe and referenced to the north side of the casing (**Table 3**). Clean, nitrile gloves were worn and changed between the work conducted at each well for dermal protection and to prevent possible cross-contamination. Prior to sampling, the wells were purged of static water in preparation for sample collection. Purging consisted of bailing three (3) well volumes or removing water until the wells were bailed dry. New disposable bailers were used for each well to prevent cross-contamination. The wells were then allowed to recharge before water samples were collected. Copies of the groundwater sampling report forms are provided in **Appendix B**.

At each event, water samples were collected using dedicated bailers and divided between three (3) laboratory-supplied 40-milliliter vials. A duplicate sample (MW-4) and trip blank were also submitted for analysis. The samples were placed on ice in a cooler, shipped under chain-of-custody procedures to Pace Analytical Laboratories (Pace) in Green Bay, Wisconsin, and analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) and MTBE by United States Environmental Protection Agency (U.S. EPA) Method 8260.

All development and purge water was drummed, labeled, and retained on-site pending disposal.

Potentiometric surface maps were created for the site using the groundwater elevation data from the August 12 and November 11, 2014, events and are presented in **Figures 5A** and **5B**. Groundwater movement across the site is to the southwest, which is consistent with historical groundwater flow at the site.

2.2 Groundwater Analytical Results

The analytical results indicated that groundwater concentrations of all chemicals of concern (COCs) exhibited a stable or decreasing trend. The MTBE concentrations in groundwater collected from MW-4 and MW-11 were reported above the Tier 2 SSTLs, therefore, further evaluation of the remaining pathway was performed. The groundwater data were used in the fate and transport model calibration to demonstrate a valid model at the point of demonstration (POD) wells and subsequently compared to the new groundwater SSTL, as described below. Groundwater analytical results have been summarized in **Table 3,** and are illustrated on **Figure 4**. The complete laboratory reports have been included in **Appendix C**.

3.0 SOIL BORING INSTALLATION AND SAMPLING

In order to provide site specific input parameters for the fate and transport modeling, soil boring ST-2 was installed on August 13, 2014, in the area west of MW-10, which is downgradient and outside of the source area. A Shelby Tube sample for geotechnical soil parameters and samples for COCs and fraction organic carbon (foc) were obtained for laboratory analysis.

3.1 Soil Boring Installation and Sampling Methodology

Following the remedial action activities and subsequent post IRA groundwater monitoring, one (1) soil boring was installed on August 13, 2014 to obtain foc and geotechnical data to be used in the fate and transport modeling. The soil boring ST-2 was advanced to depth of approximately 16 feet below ground surface (bgs) downgradient from MW-10. Soil samples from the boring were collected continuously. The soil borings were advanced from the surface to six (6) feet using a hand auger and from six (6) feet to total depth using direct push sampling techniques. The field geologist provided a complete description of soils encountered during drilling activities according to the Unified Soil Classification System (USCS) and the Standard Visual-Manual Soil Classification Scheme (ASTM 2488-84) to assure a high degree of reproducibility and accurate stratigraphic correlations. The color, moisture content, soil type, and other important features for each sample interval are recorded on the soil boring log in **Appendix D**.

The drilling tools and equipment used in soil sampling were cleaned prior to the collection of each sample. Cleaning involved washing in a Liquinox™ and tap water solution, a tap water rinse, followed by a final rinse with distilled water. The equipment was allowed to air dry prior to reuse.

The soil samples were split into two (2) parts, with soil for total VOC screening by a photoionization detector (PID) held for ten (10) minutes in plastic bags and the soil for laboratory analysis held in sample jars in a cooler with ice. The second part was placed in a laboratory supplied glass container for analysis. Two analytical samples ST-2 (4-6') and ST-2 (14-16') were selected to be analyzed for foc by Walkley Black Method, one (1) from the vadoze zone and one (1) from the saturated zone. The soil analytical samples were also submitted for analysis of BTEX/MTBE by U.S. EPA Method 8260B, and total petroleum hydrocarbons (TPH) (C6-C12) U.S. EPA Method 8015. The laboratory samples were shipped under chain-of-custody procedures to Pace for analysis. In addition, two (2) Shelby Tube samples were obtained from the same boring for geotechnical analysis, including ST-2 (6-8') from the vadose zone and ST-2 (12-14') from the saturated zone. The geotechnical samples were submitted to the Cardno ATC Laboratory in Brecksville, OH, for bulk dry density, moisture content, permeability, particle size analysis, Atterberg Limits, USCS Classification, specific gravity, porosity, volume air and volume water.

3.2 Soil Analytical Results

Analytical results from the soil samples ST-2 (4-6') and ST-2 (14-16') indicated that BTEX, MTBE and TPH concentrations were below the Tier 1 Action Levels. Soil analytical data results are presented in **Tables 1** and **2** and summarized on **Figure 3**. The complete laboratory analytical report is provided in **Appendix C**

4.0 TIER 3 EVALUATION

To address the remaining MTBE Groundwater Ingestion Pathway, a fate and transport model calibration was performed using the solute half-life values and allowable hydraulic conductivity range. As part of the Tier 3 Evaluation, MTBE concentrations in groundwater from the source wells and downgradient wells from select groundwater monitoring events were used to statistically derive site-specific solute half-life values for MTBE. In addition, a hydraulic conductivity evaluation was conducted to determine the allowable range of K values in the calibration. The selected input values were then used in the model calibration to produce a valid model determined that would generally over-predict actual analytical concentrations. The model was then run to steady state and used to back-calculate a conservative Tier 3 SSTL for MTBE that would be protective of the nearest receptor.

4.1 MTBE Regression Analysis and Solute Half-Life Determination

Site specific degradation rates for MTBE were calculated to calibrate the BIOSCREEN fate and transport model according to the method described in *Appendix G.6.2* of the TGM (2005). Historic and post-IRA groundwater analytical data was used in conjunction with analytical data from the two (2) quarterly sampling events (**Figure 5**) to calculate a site-specific range of MTBE half-life values.

4.1.1 Concentration vs. Distance Graphs

In order to demonstrate that the dissolved phase MTBE plumes was stable or diminishing, a concentration-vs-distance graph was prepared. The dissolved MTBE source well with the maximum current concentration was MW-04, which was presented at zero distance on the graph. In addition, the data were used from source well MW-11 and downgradient POD monitoring wells MW-05 and MW-08, located approximately 10, 30, and 60 feet from MW-04, respectively. Based on current and historic potentiometric surface maps, the predominant flow direction is to the southwest. The available groundwater data was used to construct the concentration-vs-distance graph (**Appendix E**). MTBE concentration data sets for available sampling events were plotted on the same graph for the source well MW-04 and each POD or downgradient monitoring well to show the plume is not expanding. A trend line was plotted for each data set, and the plume length was estimated as the distance at which the trend line crossed the Tier 1 Groundwater Ingestion Action Level concentration of 0.040 mg/L (MTBE). Based on the linear extrapolations, the plume lengths on the distance axis demonstrated a decreasing trend since the historic maximum concentration at MW-04 in 2004, and since the post-IRA maximum concentration at MW-11 in July 2010. Based on results presented in the *IRA Completion Report* (2010), MW-04 had not been influenced by the IRA events therefore, migration was assumed to be since the historic maximum. The data for MW-11 used in the graphs was from the post-IRA data set. Available data for POD wells MW-05 and MW-08 correlating to the source well dates was used in the graphs, assuming that migration had begun in 2004.

4.1.2 Concentration vs. Time Graphs

Concentration-vs-time graphs were prepared using the historical or post-IRA and current groundwater analytical data (**Appendix E**). For each COC and monitoring well, the resulting rate constants indicated the plume is stable or shrinking; therefore, the regression rates (k)

were estimated using concentration-vs-time regression analysis based on the first order decay equation ($C_{(t)} = C_i e^{-(kt)}$). The range of degradation rates (k) was converted to a range of solute half-life (t-half) values using the following equation: t-half = 0.693/k. A set of concentration-vs-time semi-logarithmic graphs were prepared for all the applicable events for monitoring wells MW-04, MW-11, MW-05, and MW-08. For monitoring well MW-04, the concentrations in groundwater were demonstrated to decrease with intermittent fluctuations from the historic maximum in 2004 of 3.0 mg/L to the current concentration of 2.03 mg/L. However, for the degradation analysis, by using post-IRA concentrations in groundwater from monitoring well MW-04, a solute half-life value was able to be determined from the trendline. For monitoring well MW-11, the post-IRA analytical data was used. For MW-08, the data used in the graph was from the maximum in 2009 to current data, based on decreased concentrations to below laboratory detection limits in 2006 to 2007 and an apparent fluctuation increase following the IRA. MW-10 was not included in the solute half-life calculations based on the concentration fluctuations induced by the IRA. A summary table of the degradation rates and half-life values is provided in **Appendix E**.

Based on the results, MTBE half-life values between 1.15 and 180 years were utilized in calibrating the BIOSCREEN fate and transport model.

4.2 Hydraulic Conductivity Evaluation

4.2.1 Hydraulic Conductivity Data

The hydraulic conductivity values used in the evaluation were determined from the slug test performed on monitoring wells MW-4, MW-6, MW-7 and MW-8 (February 19, 2003) to determine the allowable range of hydraulic conductivity values that can be used in the fate and transport model calibration. The hydraulic conductivity values were determined using the Hroslev Method with Excel™ software (**Appendix F**). The hydraulic conductivity values were as follows: 3.90 E-05 centimeters/second (cm/sec) (MW-4), 3.94 E-07 cm/sec (MW-6), 2.18 E-05 cm/sec (MW-7), and 2.55 E-06 cm/sec (MW-8). These values were previously presented in the Tier 2 Evaluation.

4.2.2 Hydraulic Conductivity Range Calculation

Hydraulic conductivity data values from MW-4, MW-6, MW-7, and MW-8 were used in the hydraulic conductivity evaluation. According to Appendix G.6.1 in the 2005 TGM, the conductivity value must lie within an acceptable range.

The range between the maximum and minimum hydraulic conductivity values calculated for the site is RANGE A:

RANGE A: 3.9 E-05 cm/sec (MW-4) to 3.94 E-07 cm/sec (MW-6)

The geometric mean of hydraulic conductivities obtained from the set of hydraulic conductivity values was then calculated (5.41E-6 cm/sec), and the result is first multiplied by 10, and divided by 10 to obtain RANGE B:

RANGE B: 5.41 E-05 cm/sec to 5.41 E-07 cm/sec

The acceptable range of conductivity values to be used in the calibration of the fate and transport model is where RANGE A overlaps RANGE B. Therefore, the acceptable range of

hydraulic conductivity values was from 3.90 E-05 cm/sec to 5.41 E-07 cm/sec. A summary of these calculations is included in **Appendix F**.

4.3 MTBE BIOSCREEN Model Calibration

For this Tier 3 Evaluation, the MTBE BIOSCREEN fate and transport model was calibrated using the range of hydraulic conductivity values and solute half-life values in order to determine model inputs that allow migration predictions to overpredict while best fitting the actual COC plume concentrations at the POD well.

The maximum concentrations in groundwater collected from source area monitoring wells MW-11 and MW-4 were used in the modeling based on the historic concentrations, including the post-IRA maximum MTBE concentration of 5.49 mg/L from the July 20, 2010 groundwater sample collected from monitoring well MW-11, and the historic maximum MTBE concentration of 3 mg/L from monitoring well MW-4 of MTBE from June 16, 2004. As indicated in the *Interim Response Action (IRA) Completion Report* (2010), MW-4 was not directly influenced by the IRA, therefore, the historic maximum (Pre-IRA) concentration was used assuming that migration began prior to the IRA.

Monitoring wells MW-5 and MW-8 were used as the downgradient POD wells in the groundwater fate and transport modeling, and were located approximately 30 feet and 60 feet, respectively, from monitoring well MW-4. Simulation time used in the POD model calibration was 10.5 years, based on the time elapsed from the earliest source maximum concentration (MW-4) June 16, 2004 to the latest groundwater analytical data from November 11, 2014. For the MTBE models, the source configuration was based on the two (2) source wells at widths of 40 feet, respectively, and total source width of 80 feet, and a model width of 160 feet at two (2) times the source width. The estimated plume length was 90 feet, based on the site data and values used in previous evaluations. With the hydraulic conductivity and solute half-life evaluations complete, the BUSTRSCREEN fate and transport models could be calibrated. Site-specific parameters were used in place of some conservative default values and the summary table is provided in **Appendix G.** The geotechnical and fractional organic carbon (foc) input parameters used in the models were from the soil samples ST-2 (12-14') and ST-2 (14-16') (August 13, 2014), respectively (**Appendix C)**. The geotechnical soil parameters used were from the Shelby Tube sample ST-2 (12-14') were 0.188 for porosity, and 1.816 kg/L for soil bulk density. Site-specific fraction organic carbon (foc) of 0.0119 from ST-2 (14-16') was used from the Walkley Black Method. The horizontal hydraulic gradient for the site was 0.03 feet/foot per BUSTR's request in previous evaluations.

The hydraulic conductivity range of allowable values and the calculated half-life values for MTBE were systematically varied in the model calibration in order to find a valid model that would over-predict the concentration at the POD monitoring wells (MW-05 and MW-08 The model calibrations indicated that use of the maximum hydraulic conductivity resulted in a BIOSCREEN model that over-predicted groundwater concentrations of MTBE at the PODs above the actual concentrations. The half-life value of 180 years was not used in the calibration as it was developed from the source well MW-4 where MTBE concentrations were slowly decreasing in groundwater. Therefore, solute half-life values from 4.10 and 1.15 years, from MW-11 and MW-8, respectfully, were used in the calibration.

In a final calibration run, the solute half-life value was adjusted to 2.5 years within the range of values and results indicated that the model over-predicted at the PODs and was valid. An additional calibration POD run was performed to verify the model was valid at the elapsed time of 4.25 years, representing the post-IRA maximum MTBE concentration in groundwater at MW-11 (July 20, 2010) to the latest groundwater data from November 11, 2014.

Based on the results of the MTBE multiple calibration runs, the hydraulic conductivity of 3.90 E-05 cm/sec and the half-life value of 2.5 years was selected as best fit to the historic and current concentrations on-site. The calibration modeling results are presented in a summary table in **Appendix G.**

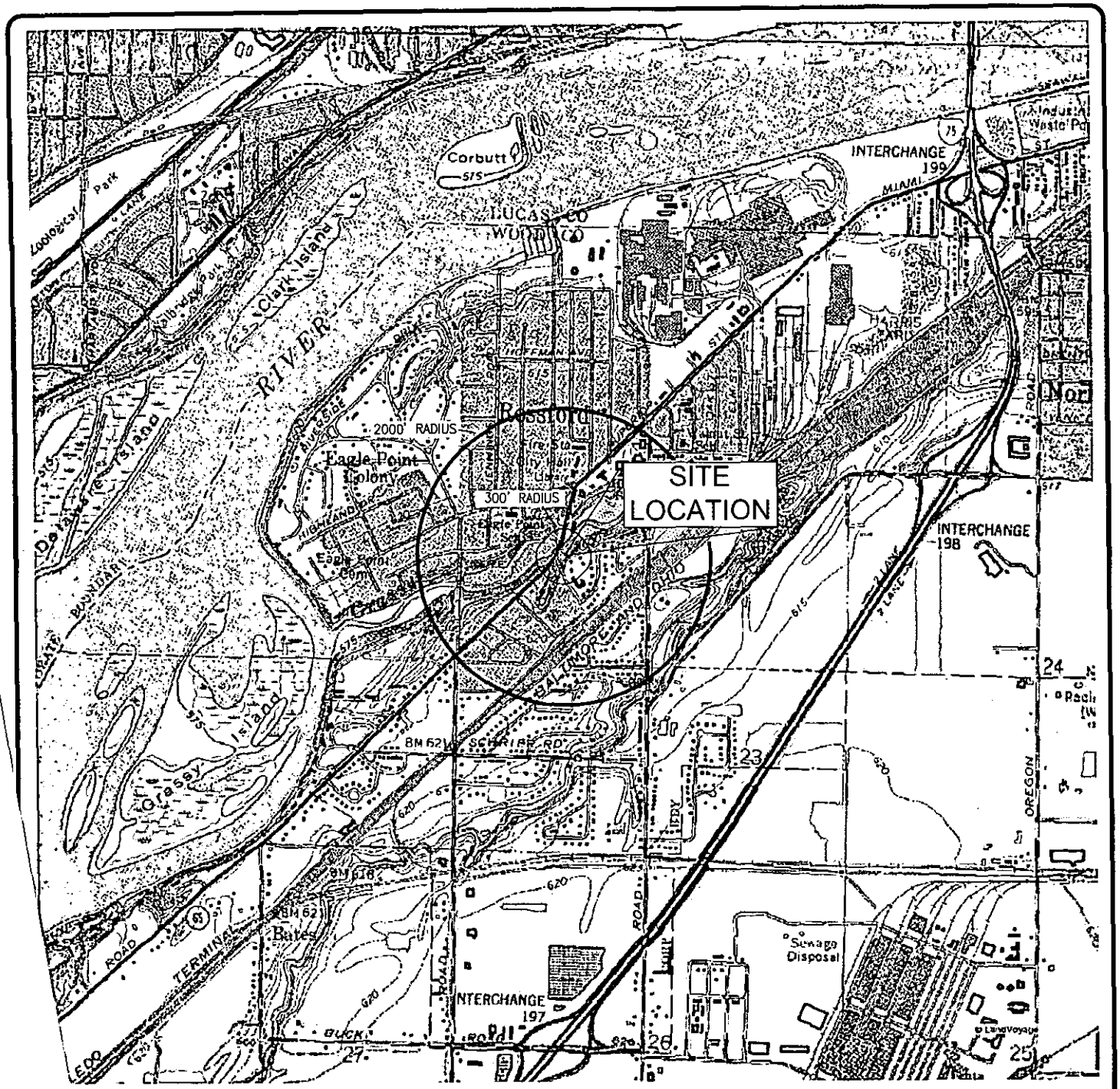
4.4 Groundwater Fate and Transport Modeling and SSTL

The fate and transport modeling for dissolved MTBE migration to the point of exposure (POE) was performed according to the BUSTR *TGM* (1999). The groundwater fate and transport modeling was performed with the selected hydraulic conductivity and solute half-life values to predict the fate and transport of MTBE in ground water and determine a more accurate SSTL. The POE for the site was 250 feet based on the distance to the nearest receptor, Grassy Creek, which is located approximately 250 feet to the north.

Using the valid BIOSCREEN model, the maximum concentrations within the source area were demonstrated to reach steady state conditions at the POE in 52 years. The model was then used to back-calculate the new MTBE SSTL of 15 mg/L that would not exceed the Tier 1 Action Level of 0.04 mg/L at the POE. The fate and transport models are presented in **Appendix H**. Concentrations of MTBE in groundwater from all groundwater sampling events including November 11, 2014, were below the SSTL. Results indicate that no further evaluation of this exposure pathway is necessary.

5.0 RESULTS AND CONCLUSIONS

Cardno ATC recommends that Speedway request BUSTR approval of the most recent groundwater analytical results, Tier 3 Evaluation, and MTBE SSTL for the groundwater ingestion pathway. Based on results of the groundwater concentrations of COCs remaining in a stable and/or decreasing trend and below the SSTLs, Cardno ATC recommends that Speedway request a No Further Action (NFA) designation for the site release.



Latitude: N 41° 36' 18.0"
Longitude: W 83° 33' 44.0"

0 1/2 1 MILE

0 1000 2000 4000 6000 FEET

USGS 7.5-Minute Topographic Map; Rossford, OH Quadrangle 1980; Scale: 1:24,000

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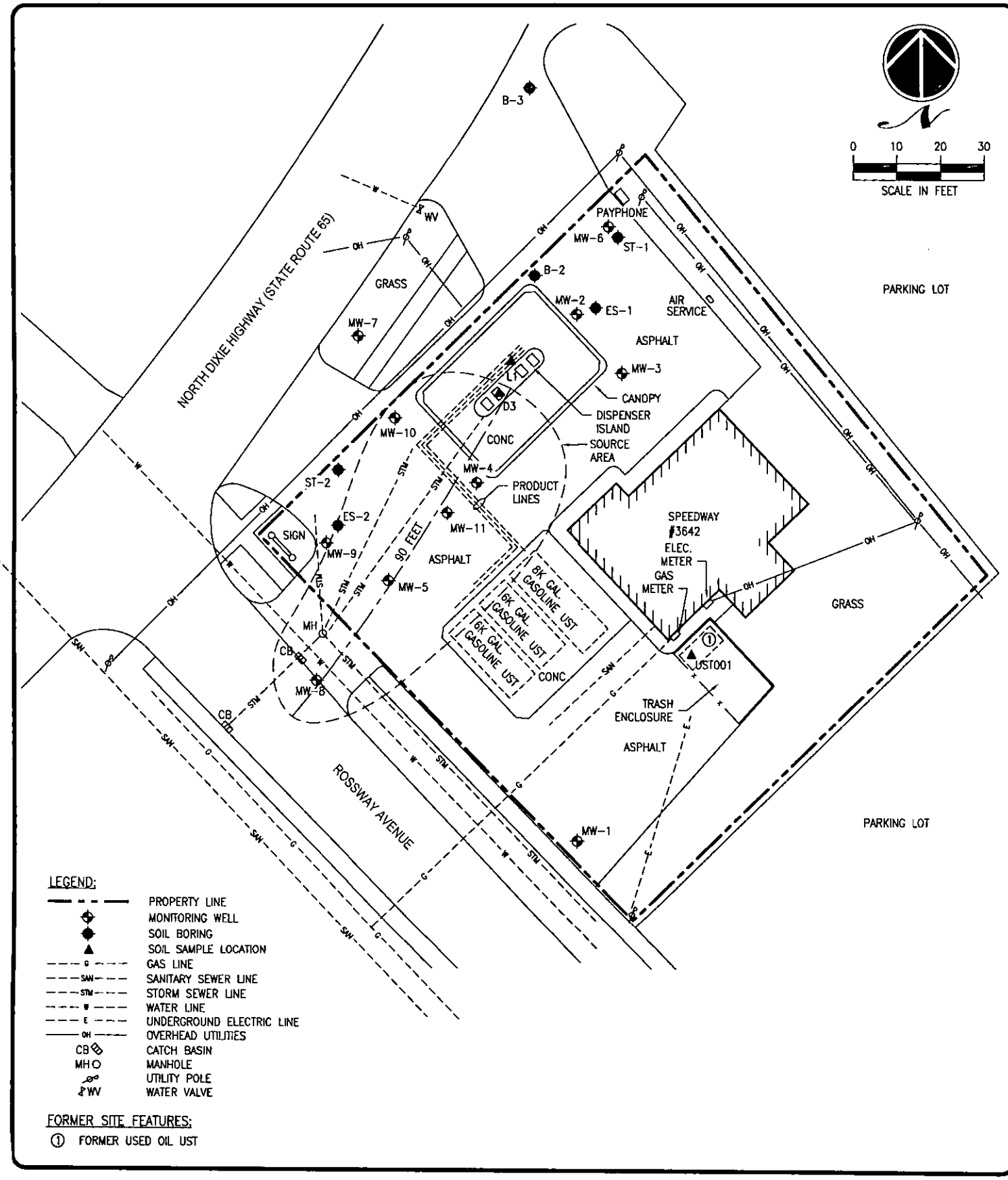
OAD
1141-3478

IO.COM

DATE: 1/9/15	PROJECT NO.: ..
DRAWN BY: SBM	SCALE: 1" = 2000'
REVIEWED BY: CH	FIGURE 1

SITE LOCATION MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- SOIL BORING
- SOIL SAMPLE LOCATION
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD UTILITIES
- CB CATCH BASIN
- MH MANHOLE
- UTILITY POLE
- WV WATER VALVE

FORMER SITE FEATURES:

① FORMER USED OIL UST

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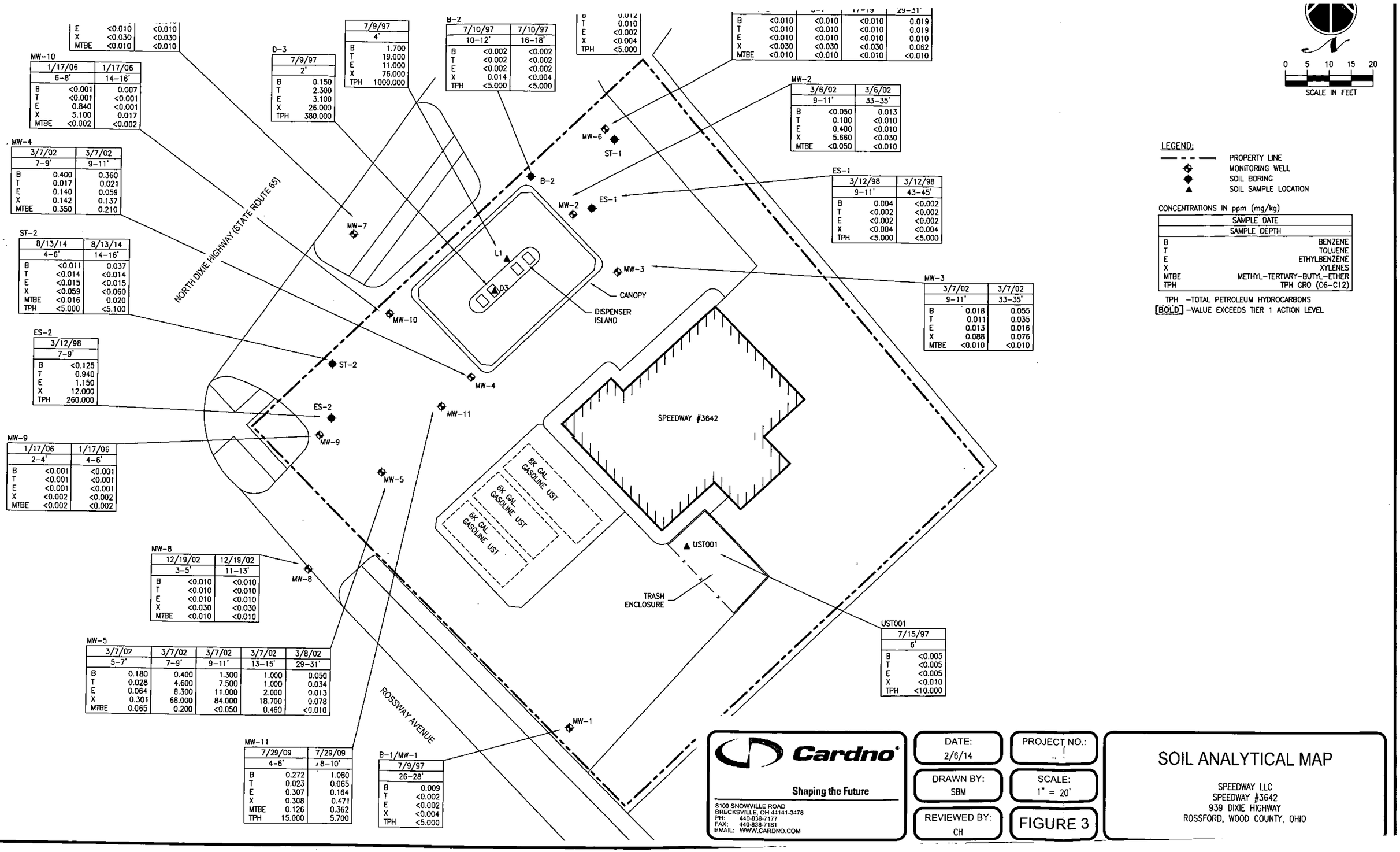
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 2/6/15	PROJECT NO.: ..
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CH	FIGURE 2

SITE MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



MW-10	1/17/06	1/17/06
	6-8'	14-16'
B	<0.001	0.007
T	<0.001	<0.001
E	0.840	<0.001
X	5.100	0.017
MTBE	<0.002	<0.002

E	<0.010	<0.010
X	<0.030	<0.030
MTBE	<0.010	<0.010

D-3	7/9/97
	2'
B	0.150
T	2.300
E	3.100
X	26.000
TPH	380.000

	7/9/97
	4'
B	1.700
T	19.000
E	11.000
X	76.000
TPH	1000.000

B-2	7/10/97	7/10/97
	10-12'	16-18'
B	<0.002	<0.002
T	<0.002	<0.002
E	<0.002	<0.002
X	0.014	<0.004
TPH	<5.000	<5.000

B	0.012
T	0.010
E	<0.002
X	<0.004
TPH	<5.000

B	<0.010	<0.010	<0.010	0.019
T	<0.010	<0.010	<0.010	0.019
E	<0.010	<0.010	<0.010	0.010
X	<0.030	<0.030	<0.030	0.062
MTBE	<0.010	<0.010	<0.010	<0.010

MW-2	3/6/02	3/6/02
	9-11'	33-35'
B	<0.050	0.013
T	0.100	<0.010
E	0.400	<0.010
X	5.660	<0.030
MTBE	<0.050	<0.010

ES-1	3/12/98	3/12/98
	9-11'	43-45'
B	0.004	<0.002
T	<0.002	<0.002
E	<0.002	<0.002
X	<0.004	<0.004
TPH	<5.000	<5.000

MW-3	3/7/02	3/7/02
	9-11'	33-35'
B	0.018	0.055
T	0.011	0.035
E	0.013	0.016
X	0.088	0.076
MTBE	<0.010	<0.010

MW-4	3/7/02	3/7/02
	7-9'	9-11'
B	0.400	0.360
T	0.017	0.021
E	0.140	0.059
X	0.142	0.137
MTBE	0.350	0.210

ST-2	8/13/14	8/13/14
	4-6'	14-16'
B	<0.011	0.037
T	<0.014	<0.014
E	<0.015	<0.015
X	<0.059	<0.060
MTBE	<0.016	0.020
TPH	<5.000	<5.100

ES-2	3/12/98
	7-9'
B	<0.125
T	0.940
E	1.150
X	12.000
TPH	260.000

MW-9	1/17/06	1/17/06
	2-4'	4-6'
B	<0.001	<0.001
T	<0.001	<0.001
E	<0.001	<0.001
X	<0.002	<0.002
MTBE	<0.002	<0.002

MW-8	12/19/02	12/19/02
	3-5'	11-13'
B	<0.010	<0.010
T	<0.010	<0.010
E	<0.010	<0.010
X	<0.030	<0.030
MTBE	<0.010	<0.010

MW-5	3/7/02	3/7/02	3/7/02	3/7/02	3/8/02
	5-7'	7-9'	9-11'	13-15'	29-31'
B	0.180	0.400	1.300	1.000	0.050
T	0.028	4.600	7.500	1.000	0.034
E	0.064	8.300	11.000	2.000	0.013
X	0.301	68.000	84.000	18.700	0.078
MTBE	0.065	0.200	<0.050	0.460	<0.010

MW-11	7/29/09	7/29/09
	4-6'	8-10'
B	0.272	1.080
T	0.023	0.065
E	0.307	0.164
X	0.308	0.471
MTBE	0.126	0.362
TPH	15.000	5.700

B-1/MW-1	7/9/97
	26-28'
B	0.009
T	<0.002
E	<0.002
X	<0.004
TPH	<5.000

UST001	7/15/97
	6'
B	<0.005
T	<0.005
E	<0.005
X	<0.010
TPH	<10.000

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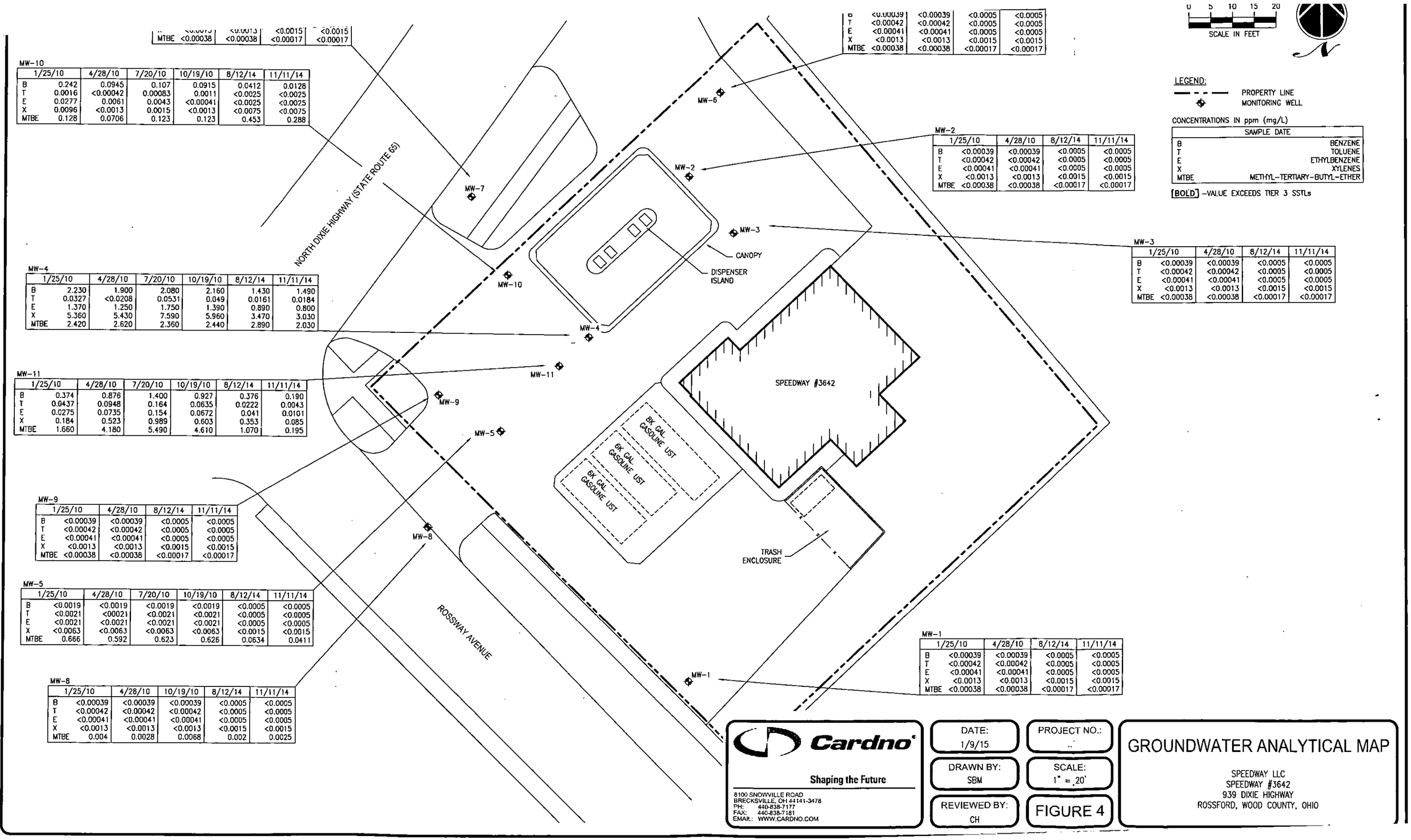
EMAIL: WWW.CARDNO.COM

DATE: 2/6/14
PROJECT NO.: [illegible]
DRAWN BY: SBM
SCALE: 1" = 20'
REVIEWED BY: CH
FIGURE 3

SOIL ANALYTICAL MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...\Speedway3642-02.dwg 1/9/15



MW-10

	1/25/10	4/28/10	7/20/10	10/19/10	8/12/14	11/11/14
B	0.242	0.0945	0.107	0.0915	0.0412	0.0128
T	0.0016	<0.00042	0.00083	0.0011	<0.0025	<0.0025
E	0.0277	0.0061	0.0043	<0.00041	<0.0025	<0.0025
X	0.0096	<0.0013	0.0015	<0.0013	<0.0075	<0.0075
MTBE	0.128	0.0706	0.123	0.123	0.453	0.288

MTBE	<0.00038	<0.00038	<0.00017	<0.00017

B	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	<0.00038	<0.00038	<0.00017	<0.00017

MW-2

	1/25/10	4/28/10	8/12/14	11/11/14
B	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	<0.00038	<0.00038	<0.00017	<0.00017

MW-3

	1/25/10	4/28/10	8/12/14	11/11/14
B	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	<0.00038	<0.00038	<0.00017	<0.00017

CONCENTRATIONS IN ppm (mg/L)

	SAMPLE DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHYL-TERTIARY-BUTYL-ETHER

[BOLD] –VALUE EXCEEDS TIER 3 SSTLs

MW-4

	1/25/10	4/28/10	7/20/10	10/19/10	8/12/14	11/11/14
B	2.230	1.900	2.080	2.160	1.430	1.490
T	0.0327	<0.0208	0.0531	0.049	0.0161	0.0184
E	1.370	1.250	1.750	1.390	0.890	0.800
X	5.360	5.430	7.590	5.960	3.470	3.030
MTBE	2.420	2.620	2.360	2.440	2.890	2.030

MW-11

	1/25/10	4/28/10	7/20/10	10/19/10	8/12/14	11/11/14
B	0.374	0.876	1.400	0.927	0.376	0.190
T	0.0437	0.0948	0.164	0.0635	0.0222	0.0043
E	0.0275	0.0735	0.154	0.0672	0.041	0.0101
X	0.184	0.523	0.989	0.603	0.353	0.085
MTBE	1.660	4.180	5.490	4.610	1.070	0.195

MW-9

	1/25/10	4/28/10	8/12/14	11/11/14
B	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	<0.00038	<0.00038	<0.00017	<0.00017

MW-5

	1/25/10	4/28/10	7/20/10	10/19/10	8/12/14	11/11/14
B	<0.0019	<0.0019	<0.0019	<0.0019	<0.0005	<0.0005
T	<0.0021	<00021	<0.0021	<0.0021	<0.0005	<0.0005
E	<0.0021	<0.0021	<0.0021	<0.0021	<0.0005	<0.0005
X	<0.0063	<0.0063	<0.0063	<0.0063	<0.0015	<0.0015
MTBE	0.666	0.592	0.623	0.626	0.0634	0.0411

MW-8

	1/25/10	4/28/10	10/19/10	8/12/14	11/11/14
B	<0.00039	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	0.004	0.0028	0.0068	0.002	0.0025

MW-1

	1/25/10	4/28/10	8/12/14	11/11/14
B	<0.00039	<0.00039	<0.0005	<0.0005
T	<0.00042	<0.00042	<0.0005	<0.0005
E	<0.00041	<0.00041	<0.0005	<0.0005
X	<0.0013	<0.0013	<0.0015	<0.0015
MTBE	<0.00038	<0.00038	<0.00017	<0.00017

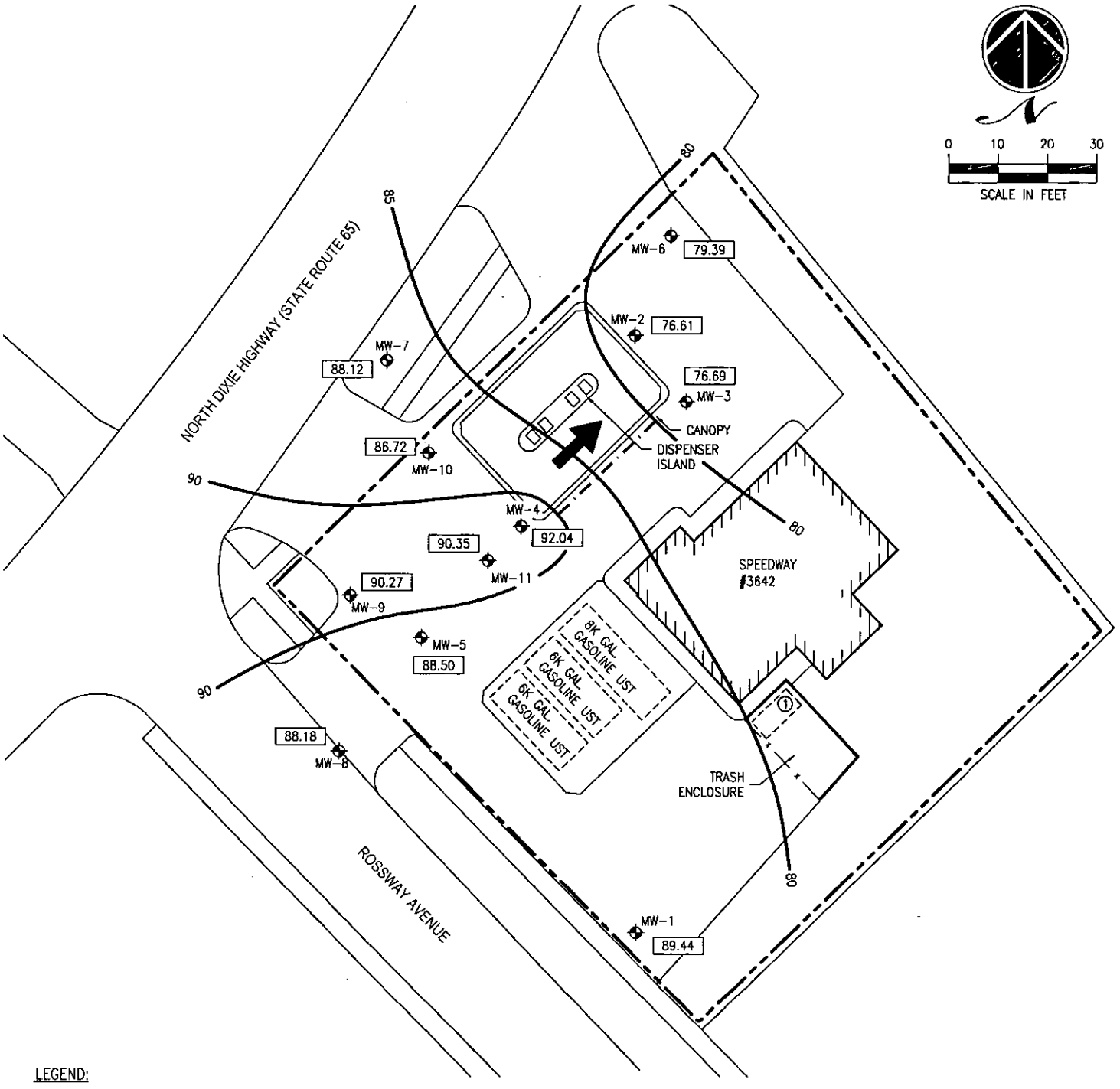
Cardno
Shaping the Future
8100 SNOWVILLE ROAD
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 1/9/15
PROJECT NO.: ..
DRAWN BY: SBM
SCALE: 1" = 20'
REVIEWED BY: CH
FIGURE 4

GROUNDWATER ANALYTICAL MAP

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

...Speedway3642-02.dwg 1/9/15



1/9/15

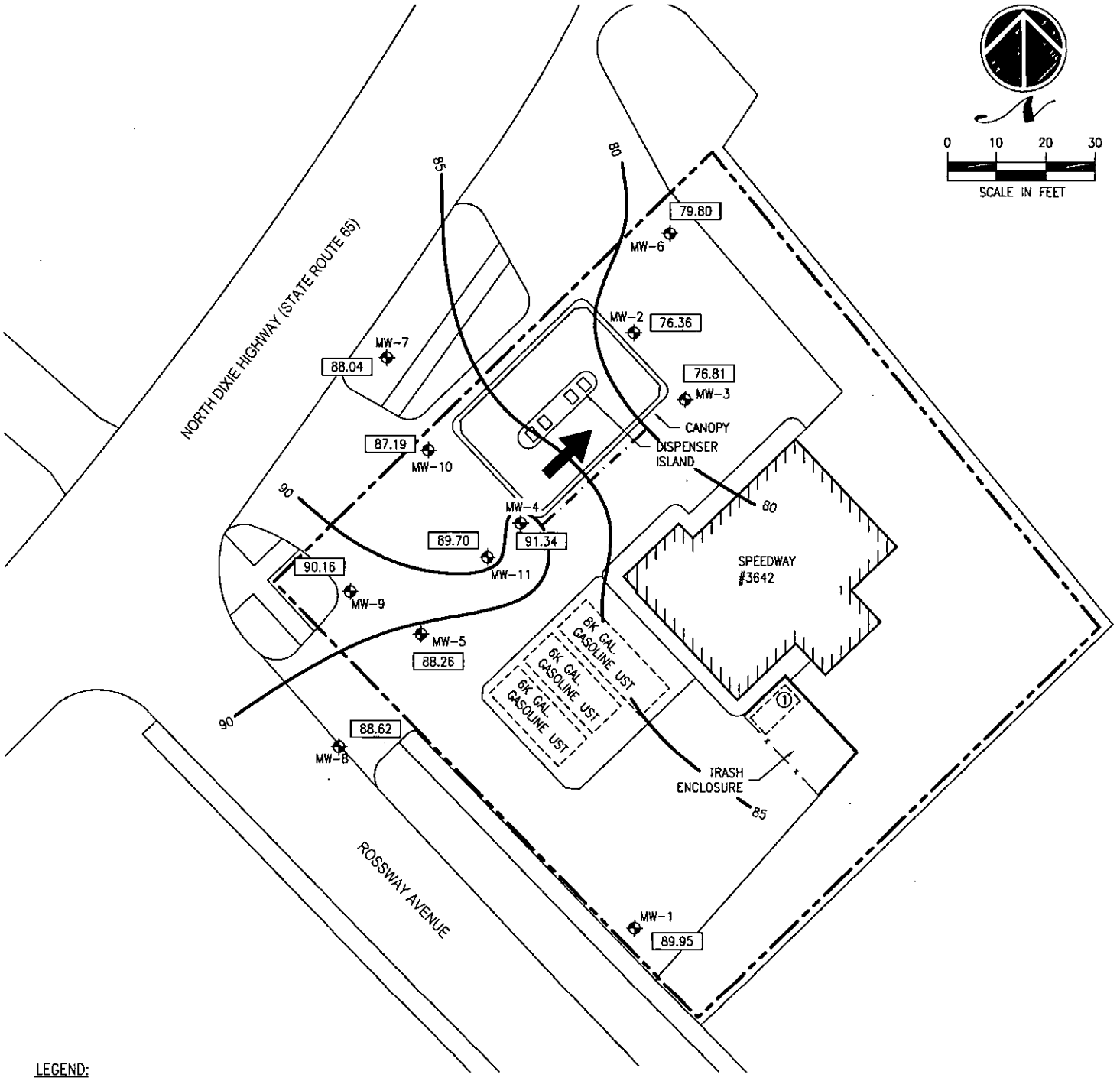
..\Speedway3642-02.dwg

Cardno
Shaping the Future
8100 SNOWVILLE ROAD
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 1/16/15	PROJECT NO.: ..
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CH	FIGURE 5A

POTENTIOMETRIC SURAFCE MAP
AUGUST 12, 2014

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- 89.44 — RELATIVE GROUNDWATER ELEVATION
- 80 — EQUIPOTENTIAL CONTOUR LINE (5.0 FOOT CONTOUR INTERVAL)
- HYDRAULIC GRADIENT
  $\frac{90.0 \text{ FT.} - 80.0 \text{ FT.}}{28.4 \text{ FT.}} = 0.3521 \text{ FT./FT.}$
- GROUNDWATER FLOW DIRECTION

1/9/15

...\Speedway3642-02.dwg

Cardno
Shaping the Future
8100 SNOWVILLE ROAD
BRECKSVILLE, OH 44141-3478
PH: 440-838-7177
FAX: 440-838-7181
EMAIL: WWW.CARDNO.COM

DATE: 1/16/15	PROJECT NO.: ..
DRAWN BY: SBM	SCALE: 1" = 30'
REVIEWED BY: CH	FIGURE 5B

POTENTIOMETRIC SURAFCE MAP
NOVEMBER 11, 2014

SPEEDWAY LLC
SPEEDWAY #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - Off Site Soil Boring				**.240**	**112.000**	**131.000**	**147.400**	**.890**
MW-07 (11-13)	MW-7 (11-13)	12/19/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-07 (7-9)	MW-7 (7-9)	12/19/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
Action Levels - Grab Soil Sample location				**9.510**	**112.000**	**131.000**	**147.400**	**.890**
D-03 (2)	D-3 (2)	07/09/1997	00:00	0.150	2.300	3.100	26.000	
ES-01 (43-45)	ES-1 (43-45)	03/12/1998	00:00	<0.002	<0.002	<0.002	<0.004	
ES-01 (9-11)	ES-1 (9-11)	03/11/1998	00:00	0.004	<0.002	<0.002	<0.004	
ES-02 (7-9)	ES-2 (7-9)	03/12/1998	00:00	<0.125	0.940	1.500	12.000	
L-01 (4)	L-1 (4)	07/09/1997	00:00	1.700	19.000	11.000	76.000	
SP-01	SP-01	08/04/2009	16:30	<0.012	<0.008	<0.011	<0.028	0.033
SP-02	SP-02	08/04/2009	16:33	<0.012	<0.008	<0.011	<0.028	<0.011
UST001 (6)	UST001 (6)	07/15/1997	00:00	<0.005	<0.005	<0.005	<0.010	
Action Levels - On Site Soil Boring				**9.510**	**112.000**	**131.000**	**147.400**	**.890**
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997	00:00	0.009	<0.002	<0.002	<0.004	
B-02 (10-12)	B-2 (10-12)	07/10/1997	00:00	<0.002	<0.002	<0.002	0.014	
B-02 (16-18)	B-2 (16-18)	07/10/1997	00:00	<0.002	<0.002	<0.002	<0.004	
B-03 (38-40)	B-3 (38-40)	07/10/1997	00:00	0.012	0.010	<0.002	<0.004	
MW-02 (33-35)	MW-2 (33-35)	03/06/2002	00:00	0.013	<0.010	<0.010	<0.030	<0.010
MW-02 (9-11)	MW-2 (9-11)	03/06/2002	00:00	<0.050	0.100	0.400	5.660	<0.050
MW-03 (33-35)	MW-3 (33-35)	03/07/2002	00:00	0.055	0.035	0.016	0.076	<0.010
MW-03 (9-11)	MW-3 (9-11)	03/07/2002	00:00	0.018	0.011	0.013	0.088	<0.010
MW-04 (7-9)	MW-4 (7-9)	03/07/2002	00:00	0.400	0.017	0.140	0.142	0.350
MW-04 (9-11)	MW-4 (9-11)	03/07/2002	00:00	0.360	0.021	0.059	0.137	0.210
MW-05 (13-15)	MW-5 (13-15)	03/07/2002	00:00	1.000	1.000	2.000	18.700	0.460
MW-05 (29-31)	MW-5 (29-31)	03/08/2002	00:00	0.050	0.034	0.013	0.078	<0.010
MW-05 (5-7)	MW-5 (5-7)	03/07/2002	00:00	0.180	0.028	0.064	0.301	0.065
MW-05 (7-9)	MW-5 (7-9)	03/07/2002	00:00	0.400	4.600	8.300	68.000	0.200
MW-05 (9-11)	MW-5 (9-11)	03/07/2002	00:00	1.300	7.500	11.000	84.000	<0.050
MW-06 (1-3)	MW-6 (1-3)	03/11/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-06 (17-19)	MW-6 (17-19)	03/11/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-06 (29-31)	MW-6 (29-31)	03/11/2002	00:00	0.019	0.019	0.010	0.062	<0.010
MW-06 (5-7)	MW-6 (5-7)	03/11/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-08 (11-13)	MW-8 (11-13)	12/19/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-08 (3-5)	MW-8 (3-5)	12/19/2002	00:00	<0.010	<0.010	<0.010	<0.030	<0.010
MW-09 (2-4)	MW-09 (2-4)	01/17/2006	10:15	<0.001	<0.001	<0.001	<0.002	<0.001
MW-09 (4-6)	MW-09 (4-6)	01/17/2006	10:20	<0.001	<0.001	<0.001	<0.002	<0.001

Table 1
BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Time	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)
Action Levels - On Site Soil Boring				**9.510**	**112.000**	**131.000**	**147.400**	**.890**
MW-10 (14-16)	MW-10 (14-16)	01/17/2006	15:30	0.007	<0.001	<0.001	0.017	<0.001
MW-10 (6-8)	MW-10 (6-8)	01/17/2006	15:10	<0.001	<0.001	0.840	5.100	<0.001
MW-11 (4-6)	MW-11 (4-6)	07/29/2009	09:45	0.272	0.023	0.307	0.308	0.126
MW-11 (8-10)	MW-11 (8-10)	07/29/2009	10:00	1.080	0.065	0.164	0.471	0.362
ST-02 (14-16)	ST-02 (14-16)	08/13/2014	11:39	0.037	<0.014	<0.015	<0.060	0.020
ST-02 (4-6)	ST-02 (4-6)	08/13/2014	10:16	<0.011	<0.014	<0.015	<0.059	<0.016

Table 2
Non-BTEX/MTBE
Soil Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
B-01/MW-01 (26-28)	B-1/MW-1 (26-28)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (10-12)	B-2 (10-12)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-02 (16-18)	B-2 (16-18)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
B-03 (38-40)	B-3 (38-40)	07/10/1997 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
D-03 (2)	D-3 (2)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	380.000	mg/Kg
ES-01 (43-45)	ES-1 (43-45)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-01 (9-11)	ES-1 (9-11)	03/11/1998 00:00	TPH GRO (C6-C12)	5000.000	< 5.000	mg/Kg
ES-02 (7-9)	ES-2 (7-9)	03/12/1998 00:00	TPH GRO (C6-C12)	5000.000	260.000	mg/Kg
L-01 (4)	L-1 (4)	07/09/1997 00:00	TPH GRO (C6-C12)	5000.000	1000.000	mg/Kg
MW-03 (33-35)	MW-3 (33-35)	03/07/2002 00:00	Total Organic Carbon	NA	1.900	%
MW-03 (9-11)	MW-3 (9-11)	03/07/2002 00:00	Total Organic Carbon	NA	1.800	%
MW-07 (15-17)	MW-7 (15-17)	12/19/2002 00:00	Total Organic Carbon	NA	2.000	%
MW-07 (3-5)	MW-7 (3-5)	12/19/2002 00:00	Total Organic Carbon	NA	2.300	%
MW-11 (4-6)	MW-11 (4-6)	07/29/2009 09:45	Gasoline Range Organics (C6-C12)	5000.000	15.000	mg/Kg
MW-11 (8-10)	MW-11 (8-10)	07/29/2009 10:00	Gasoline Range Organics (C6-C12)	5000.000	5.700	mg/Kg
SP-01	SP-01	08/04/2009 16:30	Gasoline Range Organics (C6-C12)	5000.000	3.600	mg/Kg
SP-02	SP-02	08/04/2009 16:33	Gasoline Range Organics (C6-C12)	5000.000	12.600	mg/Kg
ST-02 (14-16)	ST-02 (14-16)	08/13/2014 11:39	Gasoline Range Organics (C6-C12)	5000.000	< 5.100	mg/Kg
	ST-02 (14-16)	08/13/2014 11:39	Total Organic Carbon, Rep1	NA	11900.000	mg/Kg
ST-02 (4-6)	ST-02 (4-6)	08/13/2014 10:16	Gasoline Range Organics (C6-C12)	5000.000	< 5.000	mg/Kg
	ST-02 (4-6)	08/13/2014 10:16	Total Organic Carbon, Rep1	NA	8870.000	mg/Kg
UST001 (6)	UST001 (6)	07/15/1997 00:00	TPH GRO (C6-C12)	5000.000	< 10.000	mg/Kg

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Trip Blank											**5.000**	**1,000.000**	**700.000**	**10,000.000**	**40.000**
TRIP BLANK								TRIP BLANK	02/09/2004	00:00	<0.000	<0.000	<0.000	< 0.000	<0.000
								TRIP BLANK	05/19/2004	00:00	<0.250	<0.240	<0.240	<0.270	<0.210
								TRIP BLANK	04/28/2005	12:00	<0.250	<0.240	<0.240	<0.270	<0.210
								TRIP BLANK	08/03/2005	12:00	<0.250	<0.240	<0.240	<0.270	<0.210
								TRIP BLANK	10/11/2005	12:00	<0.250	<0.240	<0.240	<0.270	<0.210
								TRIP BLANK	02/21/2007	00:00	<0.400	<0.400	<0.400	<0.300	<0.300
								TRIP BLANK	06/07/2007	00:00	<0.400	<0.400	<0.400	<0.300	<0.300
								TRIP BLANK	10/02/2007	00:00	<0.410	<0.670	<0.540	<2.600	<0.610
								TRIP BLANK	09/29/2009	00:00	<0.410	<0.670	<0.540	<2.600	<0.610
								TRIP BLANK	01/25/2010	00:00	<0.390	<0.420	<0.410	<1.300	<0.380
								TRIP BLANK	04/28/2010	00:00	<0.390	<0.420	<0.410	<1.300	<0.380
								TRIP BLANK	07/20/2010	00:00	<0.390	<0.420	<0.410	<1.300	0.500
								TRIP BLANK	10/19/2010	00:00	<0.390	<0.420	<0.410	<1.300	<0.380
								TRIP BLANK	08/12/2014	00:00	<0.400	<0.390	<0.390	<1.200	<0.480
								TRIP BLANK	11/11/2014	00:00	<0.400	<0.390	<0.390	<1.200	<0.480
Action Levels - Remediation System Influent Water											**NA**	**NA**	**NA**	**NA**	**NA**
INFLUENT								INFLUENT	10/07/2009	14:00	<0.230	<0.360	<0.400	20.200	69.000
								INFLUENT	11/05/2009	18:00	<0.230	<0.360	<0.400	<1.100	51.400
								INFLUENT	12/21/2009	15:00	<0.390	<0.420	<0.410	<1.300	44.600
Action Levels - Remediation System Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
EFFLUENT								EFFLUENT	10/07/2009	14:15	<0.230	<0.360	<0.400	<1.100	<0.360
								EFFLUENT	11/05/2009	18:15	<0.230	<0.360	<0.400	<1.100	<0.360
								EFFLUENT	12/21/2009	15:15	<0.390	<0.420	<0.410	<1.300	<0.380
								EFFLUENT	01/04/2010	18:15	<0.390	<0.420	<0.410	<1.300	<0.380
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-01								MW-1	07/15/1997	00:00	<2.000	<2.000	<2.000	<4.000	
								MW-1	04/11/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-1	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
	02/19/2003	00:00	100.8	IA	IA	IA									
								MW-1	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-1	03/24/2004	05:35	<0.000	<0.000	<0.000	< 0.000	<0.000
								MW-1	06/16/2004	05:02	<0.250	<0.240	<0.240	<0.270	<0.210
	06/02/2005	09:11	100.8	88.7	12.1			MW-1	06/02/2005	10:02	<0.250	<0.240	<0.240	<0.270	<0.210
	09/19/2005	13:27	100.8	89.41	11.39			MW-1	09/19/2005	14:00	<0.250	<0.240	<0.240	<0.270	<0.210

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-01	01/19/2006	10:10	100.8	89.27	11.53			MW-1	01/19/2006	10:40	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	100.8	IA	IA	IA									
	02/21/2007	00:00	100.8	IA	IA	IA									
	06/07/2007	10:50	100.8	89	11.8			MW-01	06/07/2007	10:50	<0.400	<0.400	<0.400	<0.300	<0.300
								MW-01	06/07/2007	12:30	<0.410	<0.670	<0.540	<2.600	<0.610
	06/14/2007	00:00	100.8	89	11.8										
	07/27/2007	00:00	100.8	89.31	11.49										
	10/02/2007	07:10	100.8	89.78	11.02			MW-01	10/02/2007	07:10	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	100.8	89.98	10.82										
	09/29/2009	00:00	100.8	90.05	10.75			MW-01	09/29/2009	15:20	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	100.8	89.79	11.01										
	11/17/2009	12:00	100.8	89.85	10.95										
	01/25/2010	00:00	100.8	89.4	11.4			MW-01	01/25/2010	17:10	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	100.8	89.29	11.51			MW-01	04/28/2010	14:10	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	100.8	88.73	12.07										
	08/12/2014	00:00	100.8	89.44	11.36			MW-01	08/12/2014	14:30	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	100.8	89.95	10.85			MW-01	11/11/2014	11:20	<0.500	<0.500	<0.500	<1.500	<0.170
MW-02								MW-2	04/11/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-2	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
	02/19/2003	00:00	97.19	74.77	22.42			MW-2	02/19/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-2	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-2	03/24/2004	05:24	<0.000	<0.000	<0.000	< 0.000	<0.000
								MW-2	06/16/2004	05:11	<0.250	<0.240	<0.240	<0.270	<0.210
	06/02/2005	07:37	97.19	69.96	27.23			MW-2	06/02/2005	08:41	<0.250	<0.240	<0.240	<0.270	<0.210
	09/19/2005	12:32	97.19	73.32	23.87			MW-2	09/19/2005	13:19	<0.250	<0.240	<0.240	<0.270	<0.210
	01/19/2006	08:48	97.19	75.9	21.29			MW-2	01/19/2006	09:40	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	97.19	75.54	21.65										
	02/21/2007	00:00	97.19	69.59	27.6			MW-2	02/21/2007	11:12	<0.400	<0.400	<0.400	<0.300	<0.300
	06/07/2007	11:10	97.19	73.92	23.27			MW-02	06/07/2007	11:10	<0.400	<0.400	<0.400	<0.300	<0.300
	10/02/2007	07:30	97.19	74.44	22.75			MW-02	10/02/2007	07:30	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	97.19	76.25	20.94										
	09/29/2009	00:00	97.19	72.11	25.08			MW-02	09/29/2009	16:20	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	97.19	66.68	30.51										
	11/17/2009	12:00	97.19	73.36	23.83										

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-02	01/25/2010	00:00	97.19	76.21	20.98			MW-02	01/25/2010	18:10	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	97.19	73.36	23.83			MW-02	04/28/2010	15:10	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	97.19	73.58	23.61										
	08/12/2014	00:00	97.19	76.61	20.58			MW-02	08/12/2014	15:30	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	97.19	76.36	20.83			MW-02	11/11/2014	12:20	<0.500	<0.500	<0.500	<1.500	<0.170
MW-03								MW-3	04/11/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-3	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
	02/19/2003	00:00	98.44	68.79	29.65			MW-3	02/19/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-3	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-3	03/24/2004	05:28	<0.000	<0.000	<0.000	< 0.000	<0.000
								MW-3	06/16/2004	05:06	<0.250	<0.240	<0.240	<0.270	<0.210
	06/02/2005	07:39	98.44	71.05	27.39			MW-3	06/02/2005	09:45	<0.250	<0.240	<0.240	<0.270	<0.210
	09/19/2005	12:34	98.44	73.88	24.56			MW-3	09/19/2005	13:22	<0.250	<0.240	<0.240	<0.270	<0.210
	01/19/2006	10:06	98.44	77.29	21.15			MW-3	01/19/2006	10:30	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	98.44	75.64	22.8										
	02/21/2007	00:00	98.44	69.69	28.75			MW-3	02/21/2007	11:07	<0.400	<0.400	<0.400	<0.300	<0.300
	06/07/2007	11:00	98.44	74.63	23.81			MW-03	06/07/2007	11:00	<0.400	<0.400	<0.400	<0.300	<0.300
								MW-03	06/07/2007	12:40	<0.410	<0.670	<0.540	<2.600	<0.610
	10/02/2007	07:20	98.44	75.09	23.35			MW-03	10/02/2007	07:20	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	98.44	75.73	22.71										
	09/29/2009	00:00	98.44	71.84	26.6			MW-03	09/29/2009	16:30	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	98.44	67.05	31.39										
	11/17/2009	12:00	98.44	70	28.44										
	01/25/2010	00:00	98.44	75.66	22.78			MW-03	01/25/2010	18:20	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	98.44	76.31	22.13			MW-03	04/28/2010	15:20	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	98.44	76.42	22.02										
	08/12/2014	00:00	98.44	76.69	21.75			MW-03	08/12/2014	15:40	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	98.44	76.81	21.63			MW-03	11/11/2014	12:30	<0.500	<0.500	<0.500	<1.500	<0.170
MW-04								MW-4	04/11/2002	00:00	3100.000	69.000	2100.000	9630.000	2600.000
								MW-4	12/20/2002	00:00	120.000	27.000	83.000	420.000	110.000
	02/19/2003	00:00	97.98	89.92	8.06			MW-4	02/19/2003	00:00	3600.000	60.000	2300.000	9270.000	1600.000
								MW-4	06/18/2003	00:00	2600.000	56.000	1800.000	7870.000	850.000
								MW-4	03/24/2004	05:54	3000.000	78.000	2200.000	9300.000	2000.000
								MW-4	06/16/2004	05:24	5300.000	<0.240	3600.000	15000.000	3000.000

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-04	06/02/2005	08:49	97.98	91.72	6.26			MW-4	06/02/2005	09:03	4200.000	<0.240	4100.000	16000.000	2800.000
	09/19/2005	13:32	97.98	91.23	6.75			MW-4	09/19/2005	14:09	3700.000	<0.240	2600.000	12000.000	2600.000
	01/19/2006	08:50	97.98	90.77	7.21			MW-4	01/19/2006	09:44	2900.000	<0.240	2400.000	11000.000	1500.000
	02/16/2007	00:00	97.98	90.73	7.25										
	02/21/2007	00:00	97.98	90.13	7.85			MW-4	02/21/2007	11:51	1720.000	35.000	2030.000	7351.000	2290.000
	03/05/2007	00:00	97.98	90.27	7.71	7.7	.01								
	04/18/2007	00:00	97.98	91.63	6.35										
	06/07/2007	11:05	97.98	92.34	5.64	5.61	.03								
	06/14/2007	00:00	97.98	91.67	6.31										
	07/27/2007	00:00	97.98	92.33	5.65			MW-04	07/27/2007	11:00	1600.000	65.000	1200.000	6900.000	1700.000
	08/14/2007	00:00	97.98	91.6	6.38										
	10/02/2007	08:20	97.98	89.85	8.13			MW-04	10/02/2007	08:20	2200.000	<34.000	1900.000	9200.000	1900.000
	09/09/2009	00:00	97.98	90.22	7.76										
	09/29/2009	00:00	97.98	91.79	6.19			MW-04	09/29/2009	17:00	2620.000	<26.800	2070.000	8650.000	2430.000
	10/15/2009	00:00	97.98	88.7	9.28										
	11/17/2009	12:00	97.98	88.93	9.05										
	01/25/2010	00:00	97.98	89.8	8.18			MW-04	01/25/2010	18:50	2230.000	32.700	1370.000	5360.000	2420.000
	04/28/2010	00:00	97.98	90.67	7.31			MW-04	04/28/2010	15:30	1900.000	<20.800	1250.000	5430.000	2620.000
	07/20/2010	00:00	97.98	91.92	6.06			MW-04	07/20/2010	14:20	2080.000	53.100	1750.000	7590.000	2360.000
	10/19/2010	00:00	97.98	90.43	7.55			MW-04	10/19/2010	12:10	2160.000	49.000	1390.000	5960.000	2440.000
	08/12/2014	00:00	97.98	92.04	5.94			MW-04	08/12/2014	15:50	1430.000	16.100	890.000	3470.000	2890.000
	11/11/2014	00:00	97.98	91.34	6.64			MW-04	11/11/2014	12:40	1490.000	18.400	800.000	3030.000	2030.000
MW-05								MW-5	04/11/2002	00:00	1.800	<1.000	1.200	<4.700	270.000
								MW-5	12/20/2002	00:00	4.800	<1.000	3.000	<15.000	500.000
	02/19/2003	00:00	96.47	85.8	10.67			MW-5	02/19/2003	00:00	<1.000	<1.000	<1.000	<3.000	630.000
								MW-5	06/18/2003	00:00	1.500	<1.000	1.400	<7.600	910.000
								MW-5	03/24/2004	05:46	<0.000	<0.000	<0.000	< 0.000	990.000
								MW-5	06/16/2004	05:21	<0.250	<0.240	<0.240	<0.270	1200.000
	06/02/2005	09:14	96.47	87.47	9			MW-5	06/02/2005	09:59	<0.250	<0.240	<0.240	12.000	1520.000
	09/19/2005	13:30	96.47	87.47	9			MW-5	09/19/2005	14:05	<0.250	<0.240	<0.240	<0.270	1700.000
	01/19/2006	10:07	96.47	88.03	8.44			MW-5	01/19/2006	10:33	<0.250	<0.240	<0.240	<0.270	680.000
	02/16/2007	00:00	96.47	87.27	9.2										
	02/21/2007	00:00	96.47	87.67	8.8			MW-5	02/21/2007	11:38	<2.000	<2.000	<2.000	<1.500	1190.000
	06/07/2007	12:10	96.47	87.72	8.75			MW-05	06/07/2007	12:10	<2.000	<2.000	<2.000	<1.500	1060.000

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

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Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-05	10/02/2007	08:15	96.47	87.43	9.04			MW-05	10/02/2007	08:15	<10.000	<17.000	<14.000	<65.000	1400.000
	09/09/2009	00:00	96.47	87.72	8.75										
	09/29/2009	00:00	96.47	87.7	8.77			MW-05	09/29/2009	16:40	<2.000	<3.400	<2.700	<13.000	754.000
	11/17/2009	12:00	96.47	69.26	27.21										
	01/25/2010	00:00	96.47	87.86	8.61			MW-05	01/25/2010	18:40	<1.900	<2.100	<2.100	<6.300	666.000
	04/28/2010	00:00	96.47	87.95	8.52			MW-05	04/28/2010	15:50	<1.900	<2.100	<2.100	<6.300	592.000
	07/20/2010	00:00	96.47	88	8.47			MW-05	07/20/2010	14:30	<1.900	<2.100	<2.100	<6.300	623.000
	10/19/2010	00:00	96.47	88.06	8.41			MW-05	10/19/2010	12:30	<1.900	<2.100	<2.100	<6.300	626.000
	08/12/2014	00:00	96.47	88.5	7.97			MW-05	08/12/2014	16:10	<0.500	<0.500	<0.500	<1.500	63.400
	11/11/2014	00:00	96.47	88.26	8.21			MW-05	11/11/2014	13:00	<0.500	<0.500	<0.500	<1.500	41.100
MW-06								MW-6	04/11/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-6	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
	02/19/2003	00:00	96.7	76.72	19.98			MW-6	02/19/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-6	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-6	03/24/2004	05:21	<0.000	<0.000	<0.000	< 0.000	<0.000
								MW-6	06/16/2004	05:09	<0.250	<0.240	<0.240	<0.270	<0.210
	06/02/2005	07:32	96.7	74.9	21.8			MW-6	06/02/2005	08:37	<0.250	<0.240	<0.240	<0.270	<0.210
	09/19/2005	12:30	96.7	75.98	20.72			MW-6	09/19/2005	13:10	<0.250	<0.240	<0.240	<0.270	<0.210
	01/19/2006	08:38	96.7	77.57	19.13			MW-6	01/19/2006	09:36	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	96.7	78.7	18										
	02/21/2007	00:00	96.7	76.5	20.2			MW-6	02/21/2007	11:16	<0.400	<0.400	<0.400	<0.300	<0.300
	06/07/2007	11:20	96.7	77.7	19			MW-06	06/07/2007	11:20	<0.400	<0.400	<0.400	<0.300	<0.300
	10/02/2007	07:40	96.7	77.86	18.84			MW-06	10/02/2007	07:40	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	96.7	78.23	18.47										
	09/29/2009	00:00	96.7	77.86	18.84			MW-06	09/29/2009	16:10	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	96.7	75.57	21.13										
	11/17/2009	12:00	96.7	77.69	19.01										
	01/25/2010	00:00	96.7	80.35	16.35			MW-06	01/25/2010	18:00	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	96.7	78.13	18.57			MW-06	04/28/2010	15:00	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	96.7	77.42	19.28										
	08/12/2014	00:00	96.7	79.39	17.31			MW-06	08/12/2014	15:20	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	96.7	79.8	16.9			MW-06	11/11/2014	12:10	<0.500	<0.500	<0.500	<1.500	<0.170
MW-09	01/19/2006	08:33	97.09	90.16	6.93			MW-9	01/19/2006	09:25	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	97.09	90.04	7.05										

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-09	02/21/2007	00:00	97.09	90.14	6.95			MW-9	02/21/2007	11:26	<0.400	<0.400	<0.400	<0.300	<0.300
	06/07/2007	11:50	97.09	90.33	6.76			MW-09	06/07/2007	11:50	<0.400	<0.400	<0.400	<0.300	<0.300
	10/02/2007	08:00	97.09	90.27	6.82			MW-09	10/02/2007	08:00	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	97.09	90.13	6.96										
	09/29/2009	00:00	97.09	90.02	7.07			MW-09	09/29/2009	15:40	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	97.09	90.17	6.92										
	11/17/2009	12:00	97.09	90.02	7.07										
	01/25/2010	00:00	97.09	90.29	6.8			MW-09	01/25/2010	17:30	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	97.09	90.33	6.76			MW-09	04/28/2010	14:30	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	97.09	90.05	7.04										
	08/12/2014	00:00	97.09	90.27	6.82			MW-09	08/12/2014	14:50	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	97.09	90.16	6.93			MW-09	11/11/2014	11:40	<0.500	<0.500	<0.500	<1.500	<0.170
MW-10	01/19/2006	08:35	96.52	84.04	12.48			MW-10	01/19/2006	09:28	73.000	28.000	95.000	490.000	<0.210
	02/16/2007	00:00	96.52	86.47	10.05										
	02/21/2007	00:00	96.52	86.62	9.9			MW-10	02/21/2007	11:22	103.000	<0.400	4.100	9.100	23.000
	06/07/2007	12:00	96.52	85.73	10.79			MW-10	06/07/2007	12:00	277.000	<2.000	19.000	15.000	66.000
	10/02/2007	07:50	96.52	85	11.52			MW-10	10/02/2007	07:50	460.000	<6.700	31.000	<26.000	77.000
	09/09/2009	00:00	96.52	85.43	11.09										
	09/29/2009	00:00	96.52	86.14	10.38			MW-10	09/29/2009	15:50	328.000	2.000	41.300	15.600	142.000
	10/15/2009	00:00	96.52	81.42	15.1										
	11/17/2009	12:00	96.52	81.54	14.98										
	01/25/2010	00:00	96.52	86.33	10.19			MW-10	01/25/2010	17:40	242.000	1.600	27.700	9.600	128.000
	04/28/2010	00:00	96.52	85.71	10.81			MW-10	04/28/2010	14:40	94.500	<0.420	6.100	<1.300	70.600
	07/20/2010	00:00	96.52	84.72	11.8			MW-10	07/20/2010	14:40	107.000	0.830	4.300	1.500	123.000
	10/19/2010	00:00	96.52	85.44	11.08			MW-10	10/19/2010	12:00	91.500	1.100	<0.410	<1.300	123.000
	08/12/2014	00:00	96.52	86.72	9.8			MW-10	08/12/2014	15:00	41.200	<2.500	<2.500	<7.500	453.000
	11/11/2014	00:00	96.52	87.19	9.33			MW-10	11/11/2014	11:50	12.800	<2.500	<2.500	<7.500	288.000
MW-11	09/09/2009	00:00	96.63	87.62	9.01										
	09/29/2009	00:00	96.63	87.45	9.18			MW-11	09/29/2009	16:50	3070.000	571.000	423.000	3850.000	7720.000
	11/17/2009	12:00	96.63	78.54	18.09										
	01/25/2010	00:00	96.63	88.03	8.6			MW-11	01/25/2010	18:30	374.000	43.700	27.500	184.000	1660.000
	04/28/2010	00:00	96.63	88.11	8.52			MW-11	04/28/2010	15:40	876.000	94.800	73.500	523.000	4180.000
	07/20/2010	00:00	96.63	88.06	8.57			MW-11	07/20/2010	14:50	1400.000	164.000	154.000	989.000	5490.000
	10/19/2010	00:00	96.63	86.19	10.44			MW-11	10/19/2010	12:20	927.000	63.500	67.200	603.000	4610.000

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - On Site Monitoring Well											**10,000.000**	**1,000.000**	**10,000.000**	**100,000.000**	**15,000.000**
MW-11	08/12/2014	00:00	96.63	90.35	6.28			MW-11	08/12/2014	16:00	376.000	22.200	41.000	353.000	1070.000
	11/11/2014	00:00	96.63	89.7	6.93			MW-11	11/11/2014	12:50	190.000	4.300	10.100	85.000	195.000
Action Levels - Off Site Monitoring Well											**5.000**	**1,000.000**	**700.000**	**10,000.000**	**40.000**
MW-07								MW-7	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
	02/19/2003	00:00	95.7	85.88	9.82			MW-7	02/19/2003	00:00	<1.000	<1.000	1.100	<5.600	<4.000
								MW-7	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	<4.000
								MW-7	03/24/2004	05:50	<0.000	<0.000	<0.000	< 0.000	<0.000
								MW-7	06/16/2004	05:15	<0.250	<0.240	<0.240	<0.270	<0.210
	06/02/2005	07:30	95.7	87.46	8.24			MW-7	06/02/2005	08:30	<0.250	<0.240	<0.240	<0.270	<0.210
	09/19/2005	12:28	95.7	87.28	8.42			MW-7	09/19/2005	13:14	<0.250	<0.240	<0.240	<0.270	<0.210
	01/19/2006	08:37	95.7	88.31	7.39			MW-7	01/19/2006	09:31	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	95.7	IA	IA	IA									
	02/21/2007	00:00	95.7	IA	IA	IA									
	06/07/2007	11:30	95.7	87.81	7.89			MW-07	06/07/2007	11:30	<0.400	<0.400	<0.400	<0.300	<0.300
	10/02/2007	07:45	95.7	87.41	8.29			MW-07	10/02/2007	07:45	<0.410	<0.670	<0.540	<2.600	<0.610
	09/09/2009	00:00	95.7	87.71	7.99										
	09/29/2009	00:00	95.7	87.36	8.34			MW-07	09/29/2009	16:00	<0.410	<0.670	<0.540	<2.600	<0.610
	10/15/2009	00:00	95.7	86.93	8.77										
	11/17/2009	12:00	95.7	86.83	8.87										
	01/25/2010	00:00	95.7	87.96	7.74			MW-07	01/25/2010	17:50	<0.390	<0.420	<0.410	<1.300	<0.380
	04/28/2010	00:00	95.7	88.18	7.52			MW-07	04/28/2010	14:50	<0.390	<0.420	<0.410	<1.300	<0.380
	10/19/2010	00:00	95.7	87.3	8.4										
	08/12/2014	00:00	95.7	88.12	7.58			MW-07	08/12/2014	15:10	<0.500	<0.500	<0.500	<1.500	<0.170
	11/11/2014	00:00	95.7	88.04	7.66			MW-07	11/11/2014	12:00	<0.500	<0.500	<0.500	<1.500	<0.170
MW-08								MW-8	02/19/2002	00:00	<1.000	<1.000	<1.000	<3.000	12.000
								MW-8	12/20/2002	00:00	<1.000	<1.000	<1.000	<3.000	13.000
	02/19/2003	00:00	98.78	85.73	13.05										
								MW-8	06/18/2003	00:00	<1.000	<1.000	<1.000	<3.000	15.000
								MW-8	03/24/2004	05:40	<0.000	<0.000	<0.000	< 0.000	7.900
								MW-8	06/16/2004	05:18	<0.250	<0.240	<0.240	<0.270	6.600
	06/02/2005	09:15	98.78	87.48	11.3			MW-8	06/02/2005	10:04	<0.250	<0.240	<0.240	<0.270	7.300
	09/19/2005	13:29	98.78	87.31	11.47			MW-8	09/19/2005	14:03	<0.250	<0.240	<0.240	<0.270	7.000
	01/19/2006	10:09	98.78	88.26	10.52			MW-8	01/19/2006	10:36	<0.250	<0.240	<0.240	<0.270	<0.210
	02/16/2007	00:00	98.78	86.48	12.3										

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 3
BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	Reading Date	Time	TOC Elev (feet)	GW Elev (feet)	GW Depth (feet)	LNAPL Depth	LNAPL Thick	COC Sample ID	Sample Date	Time	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
Action Levels - Off Site Monitoring Well											**5.000**	**1,000.000**	**700.000**	**10,000.000**	**40.000**
MW-08	02/21/2007	00:00	98.78	86.48	12.3			MW-8	02/21/2007	11:30	<0.400	<0.400	<0.400	<0.300	<0.300
	06/07/2007	11:40	98.78	87.58	11.2			MW-08	06/07/2007	11:40	<0.400	<0.400	<0.400	<0.300	<0.300
	10/02/2007	08:10	98.78	87.48	11.3			MW-08	10/02/2007	08:10	<0.410	<0.670	<0.540	<2.600	1.700
	09/09/2009	00:00	98.78	87.91	10.87										
	09/29/2009	00:00	98.78	87.76	11.02			MW-08	09/29/2009	15:30	<0.410	<0.670	<0.540	<2.600	7.400
	10/15/2009	00:00	98.78	88.89	9.89										
	11/17/2009	12:00	98.78	87.19	11.59										
	01/25/2010	00:00	98.78	87.94	10.84			MW-08	01/25/2010	17:20	<0.390	<0.420	<0.410	<1.300	4.000
	04/28/2010	00:00	98.78	89.43	9.35			MW-08	04/28/2010	14:20	<0.390	<0.420	<0.410	<1.300	2.800
	10/19/2010	00:00	98.78	88.14	10.64			MW-08	10/19/2010	11:50	<0.390	<0.420	<0.410	<1.300	6.800
	08/12/2014	00:00	98.78	88.18	10.6			MW-08	08/12/2014	14:40	<0.500	<0.500	<0.500	<1.500	2.000
	11/11/2014	00:00	98.78	88.62	10.16			MW-08	11/11/2014	11:30	<0.500	<0.500	<0.500	<1.500	2.500
Action Levels - Field Blank - Sample collected in the Field (liquid)											**5.000**	**1,000.000**	**700.000**	**10,000.000**	**40.000**
EQUIPMENT BLANK								EQUIPMENT BLANK	03/24/2004	05:53	<0.000	<0.000	<0.000	< 0.000	<0.000
								EQUIPMENT BLANK	06/16/2004	05:00	<0.250	<0.240	<0.240	<0.270	<0.210
Action Levels - Effluent of first cabon vessel (rem sys)											**NA**	**NA**	**NA**	**NA**	**NA**
MID CARBON								MID CARBON	10/07/2009	14:10	<0.230	<0.360	<0.400	<1.100	<0.360
								MID CARBON	11/05/2009	18:10	<0.230	<0.360	<0.400	<1.100	<0.360
								MID CARBON	12/21/2009	15:10	<0.390	<0.420	<0.410	<1.300	<0.380
Action Levels - Air Stripper Effluent Water											**NA**	**NA**	**NA**	**NA**	**NA**
POST AIR STRIPPER								POST AIR STRIPPER	10/07/2009	14:05	<0.230	<0.360	<0.400	<1.100	4.000
								POST AIR STRIPPER	11/05/2009	18:05	<0.230	<0.360	<0.400	<1.100	3.000
								POST AIR STRIPPER	12/21/2009	15:05	<0.390	<0.420	<0.410	<1.300	1.300

Groundwater IRA events 2009 demonstrated reductions in MW-5, MW-10 and MW-11. MW-4 concentrations relatively unchanged.

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
EFFLUENT	EFFLUENT	01/04/2010 18:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	01/04/2010 18:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Acenaphthylene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Anthracene	NA	< 0.006	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)anthracene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(a)pyrene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(b)fluoranthene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(g,h,i)perylene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Benzo(k)fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Chrysene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Dibenzo(a,h)anthracene	NA	< 0.003	ug/L
	EFFLUENT	12/21/2009 15:15	Fluoranthene	NA	< 0.004	ug/L
	EFFLUENT	12/21/2009 15:15	Fluorene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Indeno(1,2,3-cd)pyrene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Lead	NA	< 0.130	ug/L
	EFFLUENT	12/21/2009 15:15	Naphthalene	NA	< 0.005	ug/L
	EFFLUENT	12/21/2009 15:15	Oil & Grease,Total Recoverable	NA	1300.000	ug/L
	EFFLUENT	12/21/2009 15:15	Phenanthrene	NA	< 0.008	ug/L
	EFFLUENT	12/21/2009 15:15	Pyrene	NA	< 0.005	ug/L
	EFFLUENT	11/05/2009 18:15	Lead	NA	1.300	ug/L
	EFFLUENT	11/05/2009 18:15	Oil & Grease,Total Recoverable	NA	3000.000	ug/L
	EFFLUENT	10/07/2009 14:15	Lead	NA	1.100	ug/L
	EFFLUENT	10/07/2009 14:15	Oil & Grease,Total Recoverable	NA	< 2500.000	ug/L
MW-01	MW-01	06/07/2007 12:30	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-01	06/07/2007 12:30	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-01	06/07/2007 12:30	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-01	06/07/2007 12:30	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-01	06/07/2007 12:30	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-01	06/07/2007 12:30	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-01	06/07/2007 12:30	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-01	06/07/2007 12:30	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-01	06/07/2007 12:30	2-Butanone	NA	< 4.300	ug/L
	MW-01	06/07/2007 12:30	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-01	06/07/2007 12:30	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-01	06/07/2007 12:30	2-Hexanone	NA	< 1.100	ug/L
	MW-01	06/07/2007 12:30	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-01	06/07/2007 12:30	Acetone	NA	< 2.300	ug/L
	MW-01	06/07/2007 12:30	Acrylonitrile	NA	< 1.300	ug/L
	MW-01	06/07/2007 12:30	Bromobenzene	NA	< 0.820	ug/L
	MW-01	06/07/2007 12:30	Bromochloromethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Bromodichloromethane	NA	< 0.560	ug/L
	MW-01	06/07/2007 12:30	Bromoform	NA	< 0.940	ug/L
	MW-01	06/07/2007 12:30	Bromomethane	NA	< 0.910	ug/L
	MW-01	06/07/2007 12:30	Carbon disulfide	NA	< 0.660	ug/L
	MW-01	06/07/2007 12:30	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-01	06/07/2007 12:30	Chlorobenzene	NA	< 0.410	ug/L
	MW-01	06/07/2007 12:30	Chloroethane	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	Chloroform	NA	< 0.370	ug/L
	MW-01	06/07/2007 12:30	Chloromethane	NA	< 0.240	ug/L
	MW-01	06/07/2007 12:30	Dibromochloromethane	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	Dibromomethane	NA	< 0.600	ug/L
	MW-01	06/07/2007 12:30	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-01	06/07/2007 12:30	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	Iodomethane	NA	< 0.630	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-01	MW-01	06/07/2007 12:30	Isopropylbenzene	NA	< 0.590	ug/L
	MW-01	06/07/2007 12:30	Methylene chloride	NA	< 0.430	ug/L
	MW-01	06/07/2007 12:30	Naphthalene	NA	< 0.740	ug/L
	MW-01	06/07/2007 12:30	Styrene	NA	< 0.860	ug/L
	MW-01	06/07/2007 12:30	Tetrachloroethene	NA	< 0.450	ug/L
	MW-01	06/07/2007 12:30	Trichloroethene	NA	< 0.480	ug/L
	MW-01	06/07/2007 12:30	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-01	06/07/2007 12:30	Vinyl Acetate	NA	< 1.600	ug/L
	MW-01	06/07/2007 12:30	Vinyl chloride	NA	< 0.180	ug/L
	MW-01	06/07/2007 12:30	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-01	06/07/2007 12:30	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-01	06/07/2007 12:30	n-Butylbenzene	NA	< 0.930	ug/L
	MW-01	06/07/2007 12:30	n-Propylbenzene	NA	< 0.810	ug/L
	MW-01	06/07/2007 12:30	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-01	06/07/2007 12:30	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-01	06/07/2007 12:30	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-01	06/07/2007 12:30	trans-1,3-Dichloropropene	NA	< 0.190	ug/L
MW-03	MW-03	06/07/2007 12:40	1,1,1,2-Tetrachloroethane	NA	< 0.920	ug/L
	MW-03	06/07/2007 12:40	1,1,1-Trichloroethane	NA	< 0.900	ug/L
	MW-03	06/07/2007 12:40	1,1,2,2-Tetrachloroethane	NA	< 0.200	ug/L
	MW-03	06/07/2007 12:40	1,1,2-Trichloroethane	NA	< 0.420	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethane	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloroethene	NA	< 0.570	ug/L
	MW-03	06/07/2007 12:40	1,1-Dichloropropene	NA	< 0.750	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichlorobenzene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	1,2,3-Trichloropropane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trichlorobenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2,4-Trimethylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromo-3-chloropropane	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,2-Dibromoethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichlorobenzene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloroethane	NA	< 0.360	ug/L
	MW-03	06/07/2007 12:40	1,2-Dichloropropane	NA	< 0.460	ug/L
	MW-03	06/07/2007 12:40	1,3,5-Trimethylbenzene	NA	< 0.830	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	1,3-Dichlorobenzene	NA	< 0.870	ug/L
	MW-03	06/07/2007 12:40	1,3-Dichloropropane	NA	< 0.610	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichloro-2-butene	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	1,4-Dichlorobenzene	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2,2-Dichloropropane	NA	< 0.620	ug/L
	MW-03	06/07/2007 12:40	2-Butanone	NA	< 4.300	ug/L
	MW-03	06/07/2007 12:40	2-Chloroethylvinyl ether	NA	< 0.950	ug/L
	MW-03	06/07/2007 12:40	2-Chlorotoluene	NA	< 0.850	ug/L
	MW-03	06/07/2007 12:40	2-Hexanone	NA	< 1.100	ug/L
	MW-03	06/07/2007 12:40	4-Chlorotoluene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	4-Methyl-2-pentanone	NA	< 1.200	ug/L
	MW-03	06/07/2007 12:40	Acetone	NA	< 2.300	ug/L
	MW-03	06/07/2007 12:40	Acrylonitrile	NA	< 1.300	ug/L
	MW-03	06/07/2007 12:40	Bromobenzene	NA	< 0.820	ug/L
	MW-03	06/07/2007 12:40	Bromochloromethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Bromodichloromethane	NA	< 0.560	ug/L
	MW-03	06/07/2007 12:40	Bromoform	NA	< 0.940	ug/L
	MW-03	06/07/2007 12:40	Bromomethane	NA	< 0.910	ug/L
	MW-03	06/07/2007 12:40	Carbon disulfide	NA	< 0.660	ug/L
	MW-03	06/07/2007 12:40	Carbon tetrachloride	NA	< 0.490	ug/L
	MW-03	06/07/2007 12:40	Chlorobenzene	NA	< 0.410	ug/L
	MW-03	06/07/2007 12:40	Chloroethane	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	Chloroform	NA	< 0.370	ug/L
	MW-03	06/07/2007 12:40	Chloromethane	NA	< 0.240	ug/L
	MW-03	06/07/2007 12:40	Dibromochloromethane	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	Dibromomethane	NA	< 0.600	ug/L
	MW-03	06/07/2007 12:40	Dichlorodifluoromethane	NA	< 0.990	ug/L
	MW-03	06/07/2007 12:40	Hexachlorobutadiene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	Iodomethane	NA	< 0.630	ug/L
	MW-03	06/07/2007 12:40	Isopropylbenzene	NA	< 0.590	ug/L
	MW-03	06/07/2007 12:40	Methylene chloride	NA	< 0.430	ug/L
	MW-03	06/07/2007 12:40	Naphthalene	NA	< 0.740	ug/L
	MW-03	06/07/2007 12:40	Styrene	NA	< 0.860	ug/L
	MW-03	06/07/2007 12:40	Tetrachloroethene	NA	< 0.450	ug/L
	MW-03	06/07/2007 12:40	Trichloroethene	NA	< 0.480	ug/L

Table 4
Non-BTEX/MTBE
Groundwater Analytical Results
Speedway #3642
Rossford, OH

Sample Location	COC Sample ID	Sample Date	Analyte	Action Level	Results	Units
MW-03	MW-03	06/07/2007 12:40	Trichlorofluoromethane	NA	< 0.790	ug/L
	MW-03	06/07/2007 12:40	Vinyl Acetate	NA	< 1.600	ug/L
	MW-03	06/07/2007 12:40	Vinyl chloride	NA	< 0.180	ug/L
	MW-03	06/07/2007 12:40	cis-1,2-Dichloroethene	NA	< 0.830	ug/L
	MW-03	06/07/2007 12:40	cis-1,3-Dichloropropene	NA	< 0.190	ug/L
	MW-03	06/07/2007 12:40	n-Butylbenzene	NA	< 0.930	ug/L
	MW-03	06/07/2007 12:40	n-Propylbenzene	NA	< 0.810	ug/L
	MW-03	06/07/2007 12:40	p-Isopropyltoluene	NA	< 0.670	ug/L
	MW-03	06/07/2007 12:40	sec-Butylbenzene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	tert-Butylbenzene	NA	< 0.970	ug/L
	MW-03	06/07/2007 12:40	trans-1,2-Dichloroethene	NA	< 0.890	ug/L
	MW-03	06/07/2007 12:40	trans-1,3-Dichloropropene	NA	< 0.190	ug/L

APPENDIX A
BUSTR CORRESPONDENCE

Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
David Goodman, Director

June 28, 2012

ERIC SWAISGOOD
ENVIRONMENTAL REPRESENTATIVE
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: TIER 3 EVALUATION PLAN APPROVAL

Dear Mr. Swaisgood:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Supplemental Tier 3 Work Plan" dated July 25, 2011. BUSTR has determined that the proposed plan is appropriate and grants approval to implement the plan. Ohio Administrative Code 1301:7-9-13(O), effective March 1999, describes your responsibilities for implementing the plan.

BUSTR notes that your work plan (see the last paragraph of section 5.3) states that only one quarter of groundwater monitoring will be performed to verify the MTBE concentrations and to validate the model. BUSTR believes that, depending on the results of your MTBE degradation rate calculations, additional groundwater monitoring may be necessary to validate the Bioscreen predictions.

All changes to the plan must be submitted to and have prior approval from BUSTR. If conditions warrant, BUSTR may require modification of the plan. A tier evaluation report summarizing the activities conducted and the results of the Tier 3 decisions shall be submitted within 90 days of the completion of the Tier 3 evaluation.

Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at http://www.com.state.oh.us/fire/bustMain.aspx *or* by calling our office.

Thank you for your cooperation. If you have any questions, please call me at (614)728-5120.

Sincerely,

R Krueger

Rick Krueger
Environmental Specialist

xc: Site File
James Detgen - ATC Associates
Donna Kestler - PUSTRCB

Petroleum Underground Storage Tank Release Compensation Board

P.O. Box 163188 • Columbus, Ohio 43216-3188
Phone: (614) 752-8963 • Fax: (614) 752-8397
www.petroboard.com

September 2, 2011

Mr. Eric Swaisgood
Speedway LLC
P.O. Box 1500
Springfield, OH 45501

CLAIM NUMBER: 3567-305/02/27/97
RELEASE #: 87000087-N00002
RELEASE SITE ADDRESS:
SSA #3642
939 Dixie Highway
Rossford, OH 43460
SUPPLEMENTAL TIER 3 WP SUBMISSION DATE: 7/29/11
REVISED COST ESTIMATE SUBMISSION DATE: 8/31/11

Dear Mr. Swaisgood:

The request for pre-approval of costs for the Supplemental Tier 3 Work Plan (WP) and the revised cost estimate prepared by ATC Associates Inc. for the above-referenced site have been reviewed. The proposed work includes the drilling of soil borings for geotechnical analysis and FOC, TPH, BTEX and MTBE analyses; two events of groundwater sampling of 11 monitoring wells and reporting; regression analysis for half-life solute transport, hydraulic conductivity evaluation; revising fate & transport modeling and calculating a SSTL for MTBE; and preparation of a Tier 3 evaluation report. The revised cost estimate for the proposed work totals $17,033.

For the reasons set forth below, the cost estimate is granted preliminary approval with modification for $16,733:

- Based on the included mileage (250 miles per trip), round trip travel time is estimated at 4.5 hours for one drilling event (by a geologist at $65/hour) and two groundwater sampling events (by a technician at $50/hour). Round trip travel time is reimbursed at the full labor rate for the first two hours and at $25 per hour for subsequent hours. Therefore, the pre-approved amount reflects a reduction of $225 for travel time costs.

- The cost estimate includes a non-reimbursable charge of $25 for "Meals" for which an overnight stay is not demonstrated.

- The cost estimate also includes charges for five interface probes at $50 each for the two groundwater sampling events. Only charges for four probes (two per event) are pre-approved, resulting in a reduction of $50.

When a claim is filed, please be certain the invoices are broken down on a time and material basis and include all subcontractor (e.g., drilling, laboratory, etc.) invoices. Only those actual costs that are documented and eligible in accordance with the Board's rules will be reimbursed.

This cost pre-approval is subject to the Bureau of Underground Storage Tank Regulations (BUSTR) approving the Supplemental Tier 3 WP. Only the work described in the cost pre-approval application has been reviewed. Therefore, any work performed beyond that described may affect this evaluation. If during the implementation of the Tier 3 WP the actual costs are estimated to exceed the pre-approved amount by more than 20%, a revised cost estimate and completion schedule is required to be submitted to this office. Tier 3 WP costs exceeding the pre-approved amount by more than 20% for which pre-approval was not sought or granted will be reimbursed when submitted in a claim at no more than 50% of the usual, customary, and reasonable costs of the least expensive remedial alternative based on the Fund's experience.

If you have any questions, please contact Cindy Duann or me at (614) 752-8963 or (800) 224-4659.

Sincerely,

Starr Richmond

Starr J. Richmond
Director
Financial Assurance Fund

cc: James Detgen, ATC Associates Inc., 8100 Snowville Road, Brecksville, OH 44141

APPENDIX B
GROUNDWATER SAMPLING REPORTS

GROUNDWATER SAMPLING REPORT

Client	Speedway#3642		Location	Rossford, OH		Time Arrived	8:30
ATC Personnel	Derek Egli	Project #	08.75116.1043		Date	8/12/2014	Time Departed	16:30
Weather	70's rain				ATC PM	Kim Kroenke		

MW #	WELL DIAMETER (Inches)	WELL DEPTH (Feet)	DEPTH TO WATER (Feet)	DEPTH TO LNAPL (Feet)	WATER COLUMN HEIGHT (Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	LNAPL VOLUME PURGED (Gallons)	GW VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES - Description required for every well. (ie. clear, cloudy, turbid, color, duplicate, odor, etc.)	MW TOC Elev. - N side of casing (all sites)	TO Pad Elev. - N side of Pad (Speedway)	Pad Condition
MW-1	2	33.70	11.36	NA	22.34	3.60	10.90		Purged dry	14:30	clear			fair
MW-2	2	39.70	20.58	NA	19.12	3.10	9.30		Purged dry	15:30	clear			good
MW-3	2	40.40	21.75	NA	18.65	3.00	9.10		Purged dry	15:40	clear			good
MW-4	2	15.60	5.94	NA	9.66	1.60	4.70		4.70	15:50	PSH odor, sheen, duplicate			good
MW-5	2	30.90	7.97	NA	22.93	3.70	11.20		Purged dry	16:10	clear			good
MW-6	2	37.60	17.31	NA	20.29	3.30	9.90		Purged dry	15:20	clear			good
MW-7	2	18.60	7.58	NA	11.02	1.80	5.40		5.40	15:10	clear			good
MW-8	2	14.90	10.60	NA	4.30	0.70	2.10		2.10	14:40	clear			good
MW-9	2	14.30	6.82	NA	7.48	1.20	3.70		3.70	14:50	clear			good
MW-10	2	21.90	9.80	NA	12.10	2.00	5.90		Purged dry	15:00	turbid			good
MW-11	2	22.00	6.28	NA	15.72	2.60	7.70		Purged dry	16:00	clear			good
												Benchmark		

Drums Generated	1	Drums on Site	1	Drum Location	behind trash enclosure	Drum Type (s or w)	

Other Comments / Observations

Well Diameter and Gal./ft	1" = 0.041	1.5" = 0.0102	2" = 0.163		4" = 0.653		6" = 1.47	

GROUNDWATER SAMPLING REPORT

Client	Speedway#3642		Location	Rossford, OH		Time Arrived	7:00
ATC Personnel	Derek Egli	Project #	Z008000195		Date	11/11/2014	Time Departed	13:30
Weather	50's clear				ATC PM	Kim Kroenke		

MW #	WELL DIAMETER (Inches)	WELL DEPTH (Feet)	DEPTH TO WATER (Feet)	DEPTH TO LNAPL (Feet)	WATER COLUMN HEIGHT (Feet)	1 WELL VOLUME (Gallons)	3 WELL VOLUMES (Gallons)	LNAPL VOLUME PURGED (Gallons)	GW VOLUME PURGED (Gallons)	SAMPLE TIME	NOTES - Description required for every well. (ie. clear, cloudy, turbid, color, duplicate, odor, etc.)	MW TOC Elev. - N side of casing (all sites)	TO Pad Elev. N side of Pad (Speedway)	Pad Condition
MW-1	2	33.70	10.85	NA	22.85	3.70	11.20		Purged dry	11:20	clear			fair
MW-2	2	39.70	20.83	NA	18.87	3.10	9.20		Purged dry	12:20	clear			good
MW-3	2	40.40	21.63	NA	18.77	3.10	9.20		Purged dry	12:30	clear			good
MW-4	2	15.60	6.64	NA	8.96	1.50	4.40		4.40	12:40	PSH odor, duplicate			good
MW-5	2	30.90	8.21	NA	22.69	3.70	11.10		Purged dry	13:00	clear			good
MW-6	2	37.60	16.90	NA	20.70	3.40	10.10		Purged dry	12:10	clear			good
MW-7	2	18.60	7.66	NA	10.94	1.80	5.30		Purged dry	12:00	clear			good
MW-8	2	14.90	10.16	NA	4.74	0.80	2.30		2.30	11:30	clear			good
MW-9	2	14.30	6.93	NA	7.37	1.20	3.60		Purged dry	11:40	clear			good
MW-10	2	21.90	9.33	NA	12.57	2.00	6.10		6.10	11:50	turbid			good
MW-11	2	22.00	6.93	NA	15.07	2.50	7.40		Purged dry	12:50	clear			good
												Benchmark		

Drums Generated	1	Drums on Site	1	Drum Location	behind trash enclosure	Drum Type (s or w)	

Other Comments / Observations

Well Diameter and Gal./ft	1" = 0.041	1.5" = 0.0102	2" = 0.163		4" = 0.653		6" = 1.47	

APPENDIX C

GROUNDWATER, SOIL ANALYTICAL AND GEOTECHNICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORDS

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www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 22, 2014

Kim Kroenke
Cardno ATC
8100 Snowville Road
Brecksville, OH 44141

RE: Project: 3642 COC 37007
Pace Project No.: 40101774

Dear Kim Kroenke:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 3642 COC 37007
Pace Project No.: 40101774

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3642 COC 37007
Pace Project No.: 40101774

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40101774001	Duplicate	Water	08/12/14 00:00	08/16/14 08:55
40101774002	TRIP BLANK	Water	08/12/14 00:00	08/16/14 08:55
40101774003	MW-01	Water	08/12/14 14:30	08/16/14 08:55
40101774004	MW-08	Water	08/12/14 14:40	08/16/14 08:55
40101774005	MW-09	Water	08/12/14 14:50	08/16/14 08:55
40101774006	MW-10	Water	08/12/14 15:00	08/16/14 08:55
40101774007	MW-07	Water	08/12/14 15:10	08/16/14 08:55
40101774008	MW-06	Water	08/12/14 15:20	08/16/14 08:55
40101774009	MW-02	Water	08/12/14 15:30	08/16/14 08:55
40101774010	MW-03	Water	08/12/14 15:40	08/16/14 08:55
40101774011	MW-04	Water	08/12/14 15:50	08/16/14 08:55
40101774012	MW-11	Water	08/12/14 16:00	08/16/14 08:55
40101774013	MW-05	Water	08/12/14 16:10	08/16/14 08:55

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SAMPLE ANALYTE COUNT

Project: 3642 COC 37007
Pace Project No.: 40101774

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40101774001	Duplicate	EPA 8260	HNW	8	PASI-G
40101774002	TRIP BLANK	EPA 8021	PMS	6	PASI-G
40101774003	MW-01	EPA 8260	HNW	8	PASI-G
40101774004	MW-08	EPA 8260	HNW	8	PASI-G
40101774005	MW-09	EPA 8260	HNW	8	PASI-G
40101774006	MW-10	EPA 8260	HNW	8	PASI-G
40101774007	MW-07	EPA 8260	HNW	8	PASI-G
40101774008	MW-06	EPA 8260	HNW	8	PASI-G
40101774009	MW-02	EPA 8260	HNW	8	PASI-G
40101774010	MW-03	EPA 8260	HNW	8	PASI-G
40101774011	MW-04	EPA 8260	HNW	8	PASI-G
40101774012	MW-11	EPA 8260	HNW	8	PASI-G
40101774013	MW-05	EPA 8260	HNW	8	PASI-G

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: Duplicate **Lab ID: 40101774001** Collected: 08/12/14 00:00 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1440**	ug/L	25.0	12.5	25		08/20/14 07:52	71-43-2	
Ethylbenzene	**977**	ug/L	25.0	12.5	25		08/20/14 07:52	100-41-4	
Methyl-tert-butyl ether	**2730**	ug/L	25.0	4.4	25		08/20/14 07:52	1634-04-4	
Toluene	**18.8J**	ug/L	25.0	12.5	25		08/20/14 07:52	108-88-3	
Xylene (Total)	**3680**	ug/L	75.0	37.5	25		08/20/14 07:52	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		25		08/20/14 07:52	1868-53-7	
Toluene-d8 (S)	94	%	70-130		25		08/20/14 07:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	59-130		25		08/20/14 07:52	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: TRIP BLANK **Lab ID: 40101774002** Collected: 08/12/14 00:00 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.40**	ug/L	1.0	0.40	1		08/21/14 11:00	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		08/21/14 11:00	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		08/21/14 11:00	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		08/21/14 11:00	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		08/21/14 11:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		08/21/14 11:00	98-08-8	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-01 **Lab ID: 40101774003** Collected: 08/12/14 14:30 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 09:14	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 09:14	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 09:14	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 09:14	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 09:14	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		08/19/14 09:14	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/14 09:14	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		08/19/14 09:14	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-08 **Lab ID: 40101774004** Collected: 08/12/14 14:40 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 12:45	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 12:45	100-41-4	
Methyl-tert-butyl ether	**2.0**	ug/L	1.0	0.17	1		08/19/14 12:45	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 12:45	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 12:45	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/19/14 12:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/19/14 12:45	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		08/19/14 12:45	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-09 **Lab ID: 40101774005** Collected: 08/12/14 14:50 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:08	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:08	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 13:08	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:08	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 13:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		08/19/14 13:08	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/19/14 13:08	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		08/19/14 13:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-10 **Lab ID: 40101774006** Collected: 08/12/14 15:00 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**41.2**	ug/L	5.0	2.5	5		08/19/14 16:36	71-43-2	
Ethylbenzene	**<2.5**	ug/L	5.0	2.5	5		08/19/14 16:36	100-41-4	
Methyl-tert-butyl ether	**453**	ug/L	5.0	0.87	5		08/19/14 16:36	1634-04-4	
Toluene	**<2.5**	ug/L	5.0	2.5	5		08/19/14 16:36	108-88-3	
Xylene (Total)	**<7.5**	ug/L	15.0	7.5	5		08/19/14 16:36	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		5		08/19/14 16:36	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		08/19/14 16:36	2037-26-5	
4-Bromofluorobenzene (S)	96	%	59-130		5		08/19/14 16:36	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-07 **Lab ID: 40101774007** Collected: 08/12/14 15:10 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:54	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:54	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 13:54	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 13:54	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 13:54	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		08/19/14 13:54	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/19/14 13:54	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		1		08/19/14 13:54	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-06 **Lab ID: 40101774008** Collected: 08/12/14 15:20 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:17	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:17	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 14:17	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:17	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 14:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		08/19/14 14:17	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/19/14 14:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		08/19/14 14:17	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-02 **Lab ID: 40101774009** Collected: 08/12/14 15:30 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:40	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:40	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 14:40	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 14:40	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 14:40	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		08/19/14 14:40	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		08/19/14 14:40	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		08/19/14 14:40	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-03 **Lab ID: 40101774010** Collected: 08/12/14 15:40 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 15:03	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 15:03	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		08/19/14 15:03	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/19/14 15:03	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/19/14 15:03	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	118	%	70-130		1		08/19/14 15:03	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/19/14 15:03	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		08/19/14 15:03	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-04 **Lab ID: 40101774011** Collected: 08/12/14 15:50 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1430**	ug/L	25.0	12.5	25		08/19/14 10:00	71-43-2	
Ethylbenzene	**890**	ug/L	25.0	12.5	25		08/19/14 10:00	100-41-4	
Methyl-tert-butyl ether	**2890**	ug/L	25.0	4.4	25		08/19/14 10:00	1634-04-4	
Toluene	**16.1J**	ug/L	25.0	12.5	25		08/19/14 10:00	108-88-3	
Xylene (Total)	**3470**	ug/L	75.0	37.5	25		08/19/14 10:00	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		25		08/19/14 10:00	1868-53-7	
Toluene-d8 (S)	94	%	70-130		25		08/19/14 10:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	59-130		25		08/19/14 10:00	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-11 **Lab ID: 40101774012** Collected: 08/12/14 16:00 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**376**	ug/L	10.0	5.0	10		08/20/14 07:28	71-43-2	
Ethylbenzene	**41.0**	ug/L	10.0	5.0	10		08/20/14 07:28	100-41-4	
Methyl-tert-butyl ether	**1070**	ug/L	10.0	1.7	10		08/20/14 07:28	1634-04-4	
Toluene	**22.2**	ug/L	10.0	5.0	10		08/20/14 07:28	108-88-3	
Xylene (Total)	**353**	ug/L	30.0	15.0	10		08/20/14 07:28	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	112	%	70-130		10		08/20/14 07:28	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		08/20/14 07:28	2037-26-5	
4-Bromofluorobenzene (S)	102	%	59-130		10		08/20/14 07:28	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37007
Pace Project No.: 40101774

Sample: MW-05 **Lab ID: 40101774013** Collected: 08/12/14 16:10 Received: 08/16/14 08:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		08/20/14 06:42	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		08/20/14 06:42	100-41-4	
Methyl-tert-butyl ether	**63.4**	ug/L	1.0	0.17	1		08/20/14 06:42	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		08/20/14 06:42	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		08/20/14 06:42	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	115	%	70-130		1		08/20/14 06:42	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/20/14 06:42	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		1		08/20/14 06:42	460-00-4	

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QUALITY CONTROL DATA

Project: 3642 COC 37007
Pace Project No.: 40101774

QC Batch: GCV/13032
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 40101774002

METHOD BLANK: 1030063
Matrix: Water
Associated Lab Samples: 40101774002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	1.0	08/21/14 09:34	
Ethylbenzene	ug/L	<0.39	1.0	08/21/14 09:34	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	08/21/14 09:34	
Toluene	ug/L	<0.39	1.0	08/21/14 09:34	
Xylene (Total)	ug/L	<1.2	3.0	08/21/14 09:34	
a,a,a-Trifluorotoluene (S)	%	101	80-120	08/21/14 09:34	

LABORATORY CONTROL SAMPLE & LCSD: 1030064 1030065

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	20.9	21.0	105	105	80-120	0	20	
Ethylbenzene	ug/L	20	20.3	20.3	101	102	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.9	20.2	99	101	80-120	2	20	
Toluene	ug/L	20	20.5	20.6	103	103	80-120	0	20	
Xylene (Total)	ug/L	60	60.7	60.6	101	101	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

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QUALITY CONTROL DATA

Project: 3642 COC 37007
Pace Project No.: 40101774

QC Batch: MSV/25395 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40101774001, 40101774003, 40101774004, 40101774005, 40101774006, 40101774007, 40101774008, 40101774009, 40101774010, 40101774011, 40101774012, 40101774013

METHOD BLANK: 1027961 Matrix: Water
Associated Lab Samples: 40101774001, 40101774003, 40101774004, 40101774005, 40101774006, 40101774007, 40101774008, 40101774009, 40101774010, 40101774011, 40101774012, 40101774013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	08/19/14 06:09	
Ethylbenzene	ug/L	<0.50	1.0	08/19/14 06:09	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	08/19/14 06:09	
Toluene	ug/L	<0.50	1.0	08/19/14 06:09	
Xylene (Total)	ug/L	<1.5	3.0	08/19/14 06:09	
4-Bromofluorobenzene (S)	%	91	59-130	08/19/14 06:09	
Dibromofluoromethane (S)	%	111	70-130	08/19/14 06:09	
Toluene-d8 (S)	%	93	70-130	08/19/14 06:09	

LABORATORY CONTROL SAMPLE & LCSD: 1027962 1027963

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	43.4	42.3	87	85	70-130	3	20	
Ethylbenzene	ug/L	50	61.2	59.4	122	119	70-130	3	20	
Methyl-tert-butyl ether	ug/L	50	48.2	47.1	96	94	54-139	2	20	
Toluene	ug/L	50	55.8	54.2	112	108	70-130	3	20	
Xylene (Total)	ug/L	150	186	179	124	119	70-130	4	20	
4-Bromofluorobenzene (S)	%				113	110	59-130			
Dibromofluoromethane (S)	%				103	103	70-130			
Toluene-d8 (S)	%				97	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028083 1028084

Parameter	Units	40101774003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	41.5	42.1	83	84	70-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	58.2	59.4	116	119	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.7	48.1	93	96	54-139	3	20	
Toluene	ug/L	<0.50	50	50	53.8	53.6	107	107	70-130	0	20	
Xylene (Total)	ug/L	<1.5	150	150	177	180	118	120	70-132	1	20	
4-Bromofluorobenzene (S)	%						112	110	59-130			
Dibromofluoromethane (S)	%						103	102	70-130			
Toluene-d8 (S)	%						95	95	70-130			

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QUALIFIERS

Project: 3642 COC 37007
Pace Project No.: 40101774

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/13032

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3642 COC 37007
Pace Project No.: 40101774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40101774002	TRIP BLANK	EPA 8021	GCV/13032		
40101774001	Duplicate	EPA 8260	MSV/25395		
40101774003	MW-01	EPA 8260	MSV/25395		
40101774004	MW-08	EPA 8260	MSV/25395		
40101774005	MW-09	EPA 8260	MSV/25395		
40101774006	MW-10	EPA 8260	MSV/25395		
40101774007	MW-07	EPA 8260	MSV/25395		
40101774008	MW-06	EPA 8260	MSV/25395		
40101774009	MW-02	EPA 8260	MSV/25395		
40101774010	MW-03	EPA 8260	MSV/25395		
40101774011	MW-04	EPA 8260	MSV/25395		
40101774012	MW-11	EPA 8260	MSV/25395		
40101774013	MW-05	EPA 8260	MSV/25395		

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SDG 40101774

Page 1 of 2 — **Chain-of-Custody-Record** — **COC ID # 00037007**

Speedway Project Information

Speedway STORE #:	3642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
Speedway PROJ. MGR:	Ryan Sabol		
PHONE #:		FAX #:	
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical		

TURN AROUND TIME: STANDARD

LAB:	Pace Analytical Services (WI)
CONSULTANT:	Cardno ATC - Cleveland, OH
PROJECT MGR:	Mrs Kim Kroenke ***INVOICE TO***
ADDRESS:	8100 Snowville Road Brecksville, Oh 44141
PHONE #:	Bus: 440-838-7177 x FAX #:
SAMPLER:	Derek Egli
SHIPPED VIA:	FedExp
TRACKING #:	

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	Duplicate	08/12/2014 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	
002	TRIP BLANK	08/12/2014 12:00am	W	1	VOA	HCL	BTEX \ MTBE 8021B	
003	MW-01	08/12/2014 02:30pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
004	MW-08	08/12/2014 02:40pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
005	MW-09	08/12/2014 02:50pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
006	MW-10	08/12/2014 03:00pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
007	MW-07	08/12/2014 03:10pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
008	MW-06	08/12/2014 03:20pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
009	MW-02	08/12/2014 03:30pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
010	MW-03	08/12/2014 03:40pm	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by:
Relinquished by: FedEx	Date 8/15/14	Time 0855	Received by laboratory: SBowe
Special Reporting Requirements: Jobs08,75116,1043			Lab Notes:

Date	Time
Date 8/15/14	Time 0855
Temp °C	

40101774

Page 2 of 2 **Chain-of-Custody-Record**

COC ID # 00037007

TURN AROUND TIME: STANDARD

Speedway Project Information

Speedway STORE #:	3642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
Speedway PROJ. MGR:	Ryan Sabol		
PHONE #:		FAX #:	
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical GL SB 8/16/14		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	Cardno ATC - Cleveland, OH
PROJECT MGR:	Mrs Kim Kroenke ***INVOICE TO***
ADDRESS:	8100 Snowville Road Brecksville, Oh 44141
PHONE #:	Bus: 440-838-7177 x FAX #:
SAMPLER:	Derek Egli
SHIPPED VIA:	FedExp
TRACKING #:	

Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
011 MW-04	08/12/2014 03:50pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
012 MW-11	08/12/2014 04:00pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
013 MW-05	08/12/2014 04:10pm	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fed Ex	Date 8/16/14	Time 0855	Received by laboratory: Shaun	Date 8/16/14	Time 0855
Special Reporting Requirements: Job#08.75116.1043			Lab Notes:	Temp	

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: CenMo ATC

Project #:

WO#: 40101774

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:
Tracking #: 7708 4289 1905

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no
Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no
Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other
Thermometer Used SR-44 Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 0 /Corr: 0 Biological Tissue is Frozen: ☐ yes ☐ no
Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 8/16/14
Initials: SB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☐Yes	☑No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☑No	☐N/A	4. SB 8/16/14
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14.
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): Cert'ed				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:
Comments/ Resolution: no times on samples. 8/16/14 SRW

Project Manager Review: LW **Date:** 8/18/14

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: August 22, 2014 FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool, HCL		
List the cooler temperature upon receipt:	0 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☒	NA ☐
Were the soil sample containers filled?	Yes ☐	No ☐	NA ☒
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☐	No ☒
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☐	No ☒
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☐	No ☒
Matrix spike duplicates or matrix duplicates	Yes ☐	No ☒
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	☐ Other (list):

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager	Laurie Woelfel Digitally signed by Laurie Woelfel DN: cn=Laurie Woelfel, o=Pace Analytical Services, Inc - Green Bay, ou, email=Laurie.Woelfel@pacelabs.com, c=US Date: 2014.08.22 15:33:47 -05'00'	8/22/14

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November 17, 2014

Kim Kroenke
Cardno ATC
8100 Snowville Road
Brecksville, OH 44141

RE: Project: 3642 COC 37772
Pace Project No.: 40107006

Dear Kim Kroenke:
Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

NELAP ACCREDITED TNI LABORATORY

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CERTIFICATIONS

Project: 3642 COC 37772
Pace Project No.: 40107006

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 3642 COC 37772
Pace Project No.: 40107006

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40107006001	Duplicate	Water	11/11/14 00:00	11/13/14 10:00
40107006002	TRIP BLANK	Water	11/11/14 00:00	11/13/14 10:00
40107006003	MW-01	Water	11/11/14 11:20	11/13/14 10:00
40107006004	MW-08	Water	11/11/14 11:30	11/13/14 10:00
40107006005	MW-09	Water	11/11/14 11:40	11/13/14 10:00
40107006006	MW-10	Water	11/11/14 11:50	11/13/14 10:00
40107006007	MW-07	Water	11/11/14 12:00	11/13/14 10:00
40107006008	MW-06	Water	11/11/14 12:10	11/13/14 10:00
40107006009	MW-02	Water	11/11/14 12:20	11/13/14 10:00
40107006010	MW-03	Water	11/11/14 12:30	11/13/14 10:00
40107006011	MW-04	Water	11/11/14 12:40	11/13/14 10:00
40107006012	MW-11	Water	11/11/14 12:50	11/13/14 10:00
40107006013	MW-05	Water	11/11/14 13:00	11/13/14 10:00

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SAMPLE ANALYTE COUNT

Project: 3642 COC 37772
Pace Project No.: 40107006

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40107006001	Duplicate	EPA 8260	HNW	8	PASI-G
40107006002	TRIP BLANK	EPA 8021	MRS	6	PASI-G
40107006003	MW-01	EPA 8260	HNW	8	PASI-G
40107006004	MW-08	EPA 8260	HNW	8	PASI-G
40107006005	MW-09	EPA 8260	HNW	8	PASI-G
40107006006	MW-10	EPA 8260	HNW	8	PASI-G
40107006007	MW-07	EPA 8260	HNW	8	PASI-G
40107006008	MW-06	EPA 8260	HNW	8	PASI-G
40107006009	MW-02	EPA 8260	HNW	8	PASI-G
40107006010	MW-03	EPA 8260	HNW	8	PASI-G
40107006011	MW-04	EPA 8260	HNW	8	PASI-G
40107006012	MW-11	EPA 8260	HNW	8	PASI-G
40107006013	MW-05	EPA 8260	HNW	8	PASI-G

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: Duplicate **Lab ID: 40107006001** Collected: 11/11/14 00:00 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1540**	ug/L	25.0	12.5	25		11/14/14 15:26	71-43-2	
Ethylbenzene	**791**	ug/L	25.0	12.5	25		11/14/14 15:26	100-41-4	
Methyl-tert-butyl ether	**2100**	ug/L	25.0	4.4	25		11/14/14 15:26	1634-04-4	
Toluene	**17.5J**	ug/L	25.0	12.5	25		11/14/14 15:26	108-88-3	
Xylene (Total)	**2960**	ug/L	75.0	37.5	25		11/14/14 15:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		25		11/14/14 15:26	1868-53-7	
Toluene-d8 (S)	95	%	70-130		25		11/14/14 15:26	2037-26-5	
4-Bromofluorobenzene (S)	90	%	59-130		25		11/14/14 15:26	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: TRIP BLANK **Lab ID: 40107006002** Collected: 11/11/14 00:00 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.40**	ug/L	1.0	0.40	1		11/14/14 16:06	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		11/14/14 16:06	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		11/14/14 16:06	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		11/14/14 16:06	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		11/14/14 16:06	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		11/14/14 16:06	98-08-8	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-01 **Lab ID: 40107006003** Collected: 11/11/14 11:20 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 09:16	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 09:16	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 09:16	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 09:16	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 09:16	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		11/14/14 09:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/14 09:16	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		11/14/14 09:16	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-08 **Lab ID: 40107006004** Collected: 11/11/14 11:30 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 10:49	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 10:49	100-41-4	
Methyl-tert-butyl ether	**2.5**	ug/L	1.0	0.17	1		11/14/14 10:49	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 10:49	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 10:49	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		11/14/14 10:49	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/14 10:49	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		1		11/14/14 10:49	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-09 **Lab ID: 40107006005** Collected: 11/11/14 11:40 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:12	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:12	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 11:12	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:12	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 11:12	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		11/14/14 11:12	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/14 11:12	2037-26-5	
4-Bromofluorobenzene (S)	90	%	59-130		1		11/14/14 11:12	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-10 **Lab ID: 40107006006** Collected: 11/11/14 11:50 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**12.8**	ug/L	5.0	2.5	5		11/14/14 09:39	71-43-2	
Ethylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/14/14 09:39	100-41-4	
Methyl-tert-butyl ether	**288**	ug/L	5.0	0.87	5		11/14/14 09:39	1634-04-4	
Toluene	**<2.5**	ug/L	5.0	2.5	5		11/14/14 09:39	108-88-3	
Xylene (Total)	**<7.5**	ug/L	15.0	7.5	5		11/14/14 09:39	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		5		11/14/14 09:39	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		11/14/14 09:39	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		5		11/14/14 09:39	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-07 **Lab ID: 40107006007** Collected: 11/11/14 12:00 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:35	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:35	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 11:35	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:35	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 11:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		11/14/14 11:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/14/14 11:35	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		11/14/14 11:35	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-06 **Lab ID: 40107006008** Collected: 11/11/14 12:10 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:58	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:58	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 11:58	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 11:58	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 11:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		11/14/14 11:58	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/14 11:58	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		11/14/14 11:58	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-02 **Lab ID: 40107006009** Collected: 11/11/14 12:20 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:21	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:21	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 12:21	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:21	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 12:21	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		11/14/14 12:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/14 12:21	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		11/14/14 12:21	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-03 **Lab ID: 40107006010** Collected: 11/11/14 12:30 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:44	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:44	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/14/14 12:44	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 12:44	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 12:44	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		11/14/14 12:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/14 12:44	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		11/14/14 12:44	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-04 **Lab ID: 40107006011** Collected: 11/11/14 12:40 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1490**	ug/L	25.0	12.5	25		11/14/14 10:03	71-43-2	
Ethylbenzene	**800**	ug/L	25.0	12.5	25		11/14/14 10:03	100-41-4	
Methyl-tert-butyl ether	**2030**	ug/L	25.0	4.4	25		11/14/14 10:03	1634-04-4	
Toluene	**18.4J**	ug/L	25.0	12.5	25		11/14/14 10:03	108-88-3	
Xylene (Total)	**3030**	ug/L	75.0	37.5	25		11/14/14 10:03	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		25		11/14/14 10:03	1868-53-7	
Toluene-d8 (S)	96	%	70-130		25		11/14/14 10:03	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130		25		11/14/14 10:03	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-11 **Lab ID: 40107006012** Collected: 11/11/14 12:50 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**190**	ug/L	1.0	0.50	1		11/14/14 19:50	71-43-2	
Ethylbenzene	**10.1**	ug/L	1.0	0.50	1		11/14/14 19:50	100-41-4	
Methyl-tert-butyl ether	**195**	ug/L	1.0	0.17	1		11/14/14 19:50	1634-04-4	
Toluene	**4.3**	ug/L	1.0	0.50	1		11/14/14 19:50	108-88-3	
Xylene (Total)	**85.0**	ug/L	3.0	1.5	1		11/14/14 19:50	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		11/14/14 19:50	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/14 19:50	2037-26-5	
4-Bromofluorobenzene (S)	93	%	59-130		1		11/14/14 19:50	460-00-4	

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ANALYTICAL RESULTS

Project: 3642 COC 37772
Pace Project No.: 40107006

Sample: MW-05 **Lab ID: 40107006013** Collected: 11/11/14 13:00 Received: 11/13/14 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 13:07	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 13:07	100-41-4	
Methyl-tert-butyl ether	**41.1**	ug/L	1.0	0.17	1		11/14/14 13:07	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/14/14 13:07	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/14 13:07	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		11/14/14 13:07	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/14 13:07	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130		1		11/14/14 13:07	460-00-4	

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QUALITY CONTROL DATA

Project: 3642 COC 37772
Pace Project No.: 40107006

QC Batch: GCV/13554
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 40107006002

METHOD BLANK: 1082537
Matrix: Water
Associated Lab Samples: 40107006002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	1.0	11/14/14 11:48	
Ethylbenzene	ug/L	<0.39	1.0	11/14/14 11:48	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	11/14/14 11:48	
Toluene	ug/L	<0.39	1.0	11/14/14 11:48	
Xylene (Total)	ug/L	<1.2	3.0	11/14/14 11:48	
a,a,a-Trifluorotoluene (S)	%	101	80-120	11/14/14 11:48	

LABORATORY CONTROL SAMPLE & LCSD: 1082538 1082539

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	20.3	20.0	101	100	80-120	1	20	
Ethylbenzene	ug/L	20	20.7	20.3	104	102	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	19.1	19.3	95	97	80-120	1	20	
Toluene	ug/L	20	20.1	19.9	100	99	80-120	1	20	
Xylene (Total)	ug/L	60	61.4	60.2	102	100	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 3642 COC 37772
Pace Project No.: 40107006

QC Batch: MSV/26546 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40107006001, 40107006003, 40107006004, 40107006005, 40107006006, 40107006007, 40107006008, 40107006009, 40107006010, 40107006011, 40107006012, 40107006013

METHOD BLANK: 1082517 Matrix: Water
Associated Lab Samples: 40107006001, 40107006003, 40107006004, 40107006005, 40107006006, 40107006007, 40107006008, 40107006009, 40107006010, 40107006011, 40107006012, 40107006013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	11/14/14 07:21	
Ethylbenzene	ug/L	<0.50	1.0	11/14/14 07:21	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	11/14/14 07:21	
Toluene	ug/L	<0.50	1.0	11/14/14 07:21	
Xylene (Total)	ug/L	<1.5	3.0	11/14/14 07:21	
4-Bromofluorobenzene (S)	%	90	59-130	11/14/14 07:21	
Dibromofluoromethane (S)	%	97	70-130	11/14/14 07:21	
Toluene-d8 (S)	%	96	70-130	11/14/14 07:21	

LABORATORY CONTROL SAMPLE & LCSD: 1082518 1082519

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	47.8	49.3	96	99	70-130	3	20	
Ethylbenzene	ug/L	50	50.5	52.5	101	105	70-130	4	20	
Methyl-tert-butyl ether	ug/L	50	42.4	43.9	85	88	54-139	3	20	
Toluene	ug/L	50	50.2	51.9	100	104	70-130	3	20	
Xylene (Total)	ug/L	150	150	155	100	103	70-130	3	20	
4-Bromofluorobenzene (S)	%				93	93	59-130			
Dibromofluoromethane (S)	%				96	96	70-130			
Toluene-d8 (S)	%				98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1082544 1082545

Parameter	Units	40107006003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	48.7	49.9	97	100	70-130	2	20	
Ethylbenzene	ug/L	<0.50	50	50	50.8	52.0	101	104	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	42.9	42.9	86	86	54-139	0	20	
Toluene	ug/L	<0.50	50	50	50.6	51.7	101	103	70-130	2	20	
Xylene (Total)	ug/L	<1.5	150	150	151	155	100	103	70-132	3	20	
4-Bromofluorobenzene (S)	%						94	92	59-130			
Dibromofluoromethane (S)	%						96	98	70-130			HS
Toluene-d8 (S)	%						99	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3642 COC 37772
Pace Project No.: 40107006

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/13554

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3642 COC 37772
Pace Project No.: 40107006

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40107006002	TRIP BLANK	EPA 8021	GCV/13554		
40107006001	Duplicate	EPA 8260	MSV/26546		
40107006003	MW-01	EPA 8260	MSV/26546		
40107006004	MW-08	EPA 8260	MSV/26546		
40107006005	MW-09	EPA 8260	MSV/26546		
40107006006	MW-10	EPA 8260	MSV/26546		
40107006007	MW-07	EPA 8260	MSV/26546		
40107006008	MW-06	EPA 8260	MSV/26546		
40107006009	MW-02	EPA 8260	MSV/26546		
40107006010	MW-03	EPA 8260	MSV/26546		
40107006011	MW-04	EPA 8260	MSV/26546		
40107006012	MW-11	EPA 8260	MSV/26546		
40107006013	MW-05	EPA 8260	MSV/26546		

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MW

401070006

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00037772

Speedway Project Information

Speedway STORE #: 3642 FACILITY ID 87000087
ADDRESS: 939 Dixie Hwy
CITY: Rossford STATE: OH
Speedway PROJ. MGR: Ryan Sabol
PHONE #: FAX #:
DIRECT STATE PAY SITE
CODE: 20 - Site Investigation-Operational/Non-Operational Facility
TYPE: L - Analytical

TURN AROUND TIME: STANDARD

LAB: Pace Analytical Services (WI)
CONSULTANT: Cardno ATC - Cleveland, OH
PROJECT MGR: Mrs Kim Kroenke ***INVOICE TO***
ADDRESS: 8100 Snowville Road Brecksville, Oh 44141
PHONE #: Bus: 440-838-7177 x FAX #:
SAMPLER: Derek Egli
SHIPPED VIA: FedExp
TRACKING #:

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
001	Duplicate	11/11/2014 12:00am	W	2	VOA	HCL	BTEX/MTBE 8260B	2-40mlVB
002	TRIP BLANK	11/11/2014 12:00am	W	1	VOA	HCL	BTEX\MTBE 8021B	1-40mlVB
003	MW-01	11/11/2014 11:20am	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40mlVB
004	MW-08	11/11/2014 11:30am	W	3	VOA	HCL	BTEX/MTBE 8260B	
005	MW-09	11/11/2014 11:40am	W	3	VOA	HCL	BTEX/MTBE 8260B	
006	MW-10	11/11/2014 11:50am	W	3	VOA	HCL	BTEX/MTBE 8260B	
007	MW-07	11/11/2014 12:00pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
008	MW-06	11/11/2014 12:10pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
009	MW-02	11/11/2014 12:20pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
010	MW-03	11/11/2014 12:30pm	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by: Fed Ex Date 11-13-14 Time 1000
Special Reporting Requirements: None

Received by: Juan Kilgue
Lab Notes:

Date 11-13-14 Time 1000
Temp 3

40107006

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00037772

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway STORE #:	3642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
Speedway PROJ. MGR:	Ryan Sabol		
PHONE #:		FAX #:	
	DIRECT STATE PAY SITE		
CODE:	20 - Site Investigation-Operational/Non-Operational Facility		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	Cardno ATC - Cleveland, OH
PROJECT MGR:	Mrs Kim Kroenke ***INVOICE TO***
ADDRESS:	8100 Snowville Road Brecksville, Oh 44141
PHONE #:	Bus: 440-838-7177 x FAX #:
SAMPLER:	Derek Egli
SHIPPED VIA:	FedEx
TRACKING #:	

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
011	MW-04	11/11/2014 12:40pm	W	3	VOA	HCL	BTEX/MTBE 8260B	3-40 ml VOA
012	MW-11	11/11/2014 12:50pm	W	3	VOA	HCL	BTEX/MTBE 8260B	
013	MW-05	11/11/2014 01:00pm	W	3	VOA	HCL	BTEX/MTBE 8260B	

Relinquished by:	Date	Time	Received by:	Date / Time
Relinquished by: Fed Ex	Date 11-13-14	Time 1000	Received by: Susan Kuglie	Date 11-13-14 Time 1000
Special Reporting Requirements: None			Lab Notes:	Temp 3

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Cardno ATC

Project #: WO# : 40107006

40107006

Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 7718 3047 2544

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used: SR49 Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 3.5 /Corr: 3 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents: Date: 11-13-14 Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 002 - ID on sample is DUPLICATE - custody seal intact and reads Trip Blank 11-13-14 SKW
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☐Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14. 1 vial 11-13-14 SKW
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 11/13/14

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: November 17, 2014 FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool, HCL		
List the cooler temperature upon receipt:	3 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☒	NA ☐
Were the soil sample containers filled?	Yes ☐	No ☐	NA ☒
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☐	No ☒
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☐	No ☒
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☐	No ☒
Matrix spike duplicates or matrix duplicates	Yes ☐	No ☒
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	☐ Other (list):

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager	Laurie Woelfel Digitally signed by Laurie Woelfel DN: cn=Laurie Woelfel, o=Pace Analytical Services, Inc - Green Bay, ou, email=Laurie.Woelfel@pacelabs.com, c=US Date: 2014.11.18 08:30:51 -06'00'	11/18/14

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www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 25, 2014

Kim Kroenke
Cardno ATC
8100 Snowville Road
Brecksville, OH 44141

RE: Project: 3642 COC 37001
Pace Project No.: 40101771

Dear Kim Kroenke:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

NELAP ACCREDITED TNI LABORATORY

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 3642 COC 37001
Pace Project No.: 40101771

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 3642 COC 37001
Pace Project No.: 40101771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40101771001	**ST-02 (4-6)**	Solid	08/13/14 10:16	08/16/14 08:55
40101771002	**ST-02 (14-16)**	Solid	08/13/14 11:39	08/16/14 08:55

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SAMPLE ANALYTE COUNT

Project: 3642 COC 37001
Pace Project No.: 40101771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40101771001	**ST-02 (4-6)**	EPA 8015B Modified	LCF	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		Walkley Black	TJJ	1	PASI-G
40101771002	**ST-02 (14-16)**	EPA 8015B Modified	LCF	1	PASI-G
		EPA 8260	SMT	8	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		Walkley Black	TJJ	1	PASI-G

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ANALYTICAL RESULTS

Project: 3642 COC 37001
Pace Project No.: 40101771

Sample: ST-02 (4-6) **Lab ID: 40101771001** Collected: 08/13/14 10:16 Received: 08/16/14 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**<5.0**	mg/kg	12.2	5.0	1	08/18/14 08:05	08/18/14 13:12		
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<11.3**	ug/kg	24.4	11.3	1	08/19/14 11:40	08/20/14 04:52	71-43-2	
Ethylbenzene	**<15.2**	ug/kg	61.1	15.2	1	08/19/14 11:40	08/20/14 04:52	100-41-4	
Methyl-tert-butyl ether	**<15.5**	ug/kg	61.1	15.5	1	08/19/14 11:40	08/20/14 04:52	1634-04-4	
Toluene	**<13.7**	ug/kg	61.1	13.7	1	08/19/14 11:40	08/20/14 04:52	108-88-3	
Xylene (Total)	**<59.2**	ug/kg	183	59.2	1	08/19/14 11:40	08/20/14 04:52	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	73	%	37-152		1	08/19/14 11:40	08/20/14 04:52	1868-53-7	
4-Bromofluorobenzene (S)	78	%	39-139		1	08/19/14 11:40	08/20/14 04:52	460-00-4	
Toluene-d8 (S)	91	%	38-154		1	08/19/14 11:40	08/20/14 04:52	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.2**	%	0.10	0.10	1		08/18/14 15:36		
Organic Carbon Walkley Black	Analytical Method: Walkley Black Preparation Method: Walkley Black								
Total Organic Carbon	**8870**	mg/kg	1230	285	1	08/25/14 11:27	08/25/14 14:23	7440-44-0	

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ANALYTICAL RESULTS

Project: 3642 COC 37001
Pace Project No.: 40101771

Sample: ST-02 (14-16) **Lab ID: 40101771002** Collected: 08/13/14 11:39 Received: 08/16/14 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**<5.1**	mg/kg	12.4	5.1	1	08/18/14 08:05	08/18/14 13:40		
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**37.1**	ug/kg	24.7	11.4	1	08/19/14 11:40	08/20/14 05:14	71-43-2	
Ethylbenzene	**<15.4**	ug/kg	61.8	15.4	1	08/19/14 11:40	08/20/14 05:14	100-41-4	
Methyl-tert-butyl ether	**19.8J**	ug/kg	61.8	15.6	1	08/19/14 11:40	08/20/14 05:14	1634-04-4	
Toluene	**<13.9**	ug/kg	61.8	13.9	1	08/19/14 11:40	08/20/14 05:14	108-88-3	
Xylene (Total)	**<59.9**	ug/kg	185	59.9	1	08/19/14 11:40	08/20/14 05:14	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	78	%	37-152		1	08/19/14 11:40	08/20/14 05:14	1868-53-7	
4-Bromofluorobenzene (S)	85	%	39-139		1	08/19/14 11:40	08/20/14 05:14	460-00-4	
Toluene-d8 (S)	96	%	38-154		1	08/19/14 11:40	08/20/14 05:14	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		08/18/14 15:36		
Organic Carbon Walkley Black	Analytical Method: Walkley Black Preparation Method: Walkley Black								
Total Organic Carbon	**11900**	mg/kg	1360	316	1	08/25/14 11:27	08/25/14 14:23	7440-44-0	

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QUALITY CONTROL DATA

Project: 3642 COC 37001
Pace Project No.: 40101771

QC Batch: GCV/13001
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015B Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 40101771001, 40101771002

METHOD BLANK: 1027877 Matrix: Solid
Associated Lab Samples: 40101771001, 40101771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	<4.1	10.0	08/18/14 09:47	

LABORATORY CONTROL SAMPLE & LCSD: 1027878 1027879

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C12)	mg/kg	50	55.3	53.3	111	107	80-124	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1027910 1027911

Parameter	Units	40101781001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	<5.1	61.6	61.6	58.7	64.1	95	104	64-120	9	20	

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QUALITY CONTROL DATA

Project: 3642 COC 37001
Pace Project No.: 40101771

QC Batch: MSV/25411
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40101771001, 40101771002

METHOD BLANK: 1028695 Matrix: Solid
Associated Lab Samples: 40101771001, 40101771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<9.2	20.0	08/19/14 19:33	
Ethylbenzene	ug/kg	<12.4	50.0	08/19/14 19:33	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/19/14 19:33	
Toluene	ug/kg	<11.2	50.0	08/19/14 19:33	
Xylene (Total)	ug/kg	<48.4	150	08/19/14 19:33	
4-Bromofluorobenzene (S)	%	96	39-139	08/19/14 19:33	
Dibromofluoromethane (S)	%	88	37-152	08/19/14 19:33	
Toluene-d8 (S)	%	108	38-154	08/19/14 19:33	

LABORATORY CONTROL SAMPLE & LCSD: 1028696 1028697

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	2500	2340	2450	94	98	70-130	4	20	
Ethylbenzene	ug/kg	2500	2690	2730	107	109	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	2500	2440	2480	98	99	65-131	2	20	
Toluene	ug/kg	2500	2640	2730	106	109	70-130	3	20	
Xylene (Total)	ug/kg	7500	7860	8070	105	108	70-130	3	20	
4-Bromofluorobenzene (S)	%				99	101	39-139			
Dibromofluoromethane (S)	%				95	97	37-152			
Toluene-d8 (S)	%				106	108	38-154			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028700 1028701

Parameter	Units	40101620010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	4070	4070	3620	3160	89	78	15-165	14	20	
Ethylbenzene	ug/kg	<25.0	4070	4070	3990	3820	98	94	25-148	4	21	
Methyl-tert-butyl ether	ug/kg	<25.0	4070	4070	3770	3380	93	83	42-139	11	20	
Toluene	ug/kg	95.3J	4070	4070	3980	3840	95	92	30-142	4	20	
Xylene (Total)	ug/kg	<75.0	12200	12200	11800	11000	96	90	25-140	7	20	
4-Bromofluorobenzene (S)	%						91	84	39-139			
Dibromofluoromethane (S)	%						85	88	37-152			
Toluene-d8 (S)	%						92	84	38-154			

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QUALITY CONTROL DATA

Project: 3642 COC 37001
Pace Project No.: 40101771

QC Batch: PMST/10115
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40101771001, 40101771002

SAMPLE DUPLICATE: 1028186

Parameter	Units	40101100006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	49.3	48.0	3	10	

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QUALITY CONTROL DATA

Project: 3642 COC 37001
Pace Project No.: 40101771

QC Batch: WETA/24762 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon
Associated Lab Samples: 40101771001, 40101771002

METHOD BLANK: 1032099 Matrix: Solid
Associated Lab Samples: 40101771001, 40101771002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	<92.9	400	08/25/14 14:23	

LABORATORY CONTROL SAMPLE: 1032100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15900	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1032101 1032102

Parameter	Units	40101771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/kg	8870	49100	49100	57400	57600	99	99	80-120	0	20	

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QUALIFIERS

Project: 3642 COC 37001
Pace Project No.: 40101771

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WETA/24778

[WB] Results reported on dry weight basis per cited method.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3642 COC 37001
Pace Project No.: 40101771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40101771001	**ST-02 (4-6)**	EPA 5035A/5030B	GCV/13001	EPA 8015B Modified	GCV/13010
40101771002	**ST-02 (14-16)**	EPA 5035A/5030B	GCV/13001	EPA 8015B Modified	GCV/13010
40101771001	**ST-02 (4-6)**	EPA 5035/5030B	MSV/25411	EPA 8260	MSV/25413
40101771002	**ST-02 (14-16)**	EPA 5035/5030B	MSV/25411	EPA 8260	MSV/25413
40101771001	**ST-02 (4-6)**	ASTM D2974-87	PMST/10115		
40101771002	**ST-02 (14-16)**	ASTM D2974-87	PMST/10115		
40101771001	**ST-02 (4-6)**	Walkley Black	WETA/24762	Walkley Black	WETA/24778
40101771002	**ST-02 (14-16)**	Walkley Black	WETA/24762	Walkley Black	WETA/24778

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KBV 40101771

Page 1 of 1

Chain-of-Custody-Record

COC ID # 00037001

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway STORE #:	3642	FACILITY ID	87000087
ADDRESS:	939 Dixie Hwy		
CITY:	Rossford	STATE:	OH
Speedway PROJ. MGR:	Ryan Sabol		
PHONE #:		FAX #:	
	DIRECT STATE PAY SITE		
CODE:	31 - Risk Based Corrective Action Plan		
TYPE:	L - Analytical		

LAB:	Pace Analytical Services (WI)
CONSULTANT:	Cardno ATC - Cleveland, OH
PROJECT MGR:	Mrs Kim Kroenke ***INVOICE TO***
ADDRESS:	8100 Snowville Road Brecksville, Oh 44141
PHONE #:	Bus: 440-838-7177 x FAX #:
SAMPLER:	Dan King
SHIPPED VIA:	Pickup
TRACKING #:	

	Sample ID	Date/Time Sampled	Matrix	# of Cont.	Container Type	Preservative	Analysis to be Performed	Remarks
81	ST-02 (4-6)	08/13/2014 10:16am	S	2	4 OZ	COOL	TPH 8015B C6-C12	2-4oz Ag +
					4 OZ	COOL	BTEX/MTBE 8260B	
					4 OZ	COOL	FOC Walkley/Balck Method	
82	ST-02 (14-16)	08/13/2014 11:39am	S	2	4 OZ	COOL	TPH 8015B C6-C12	
					4 OZ	COOL	BTEX/MTBE 8260B	
					4 OZ	COOL	FOC Walkley/Balck Method	

Relinquished by:	Date 8/15/14	Time 0830	Received by:	Date 8/15/14	Time 0830
Relinquished by:	Date 8/16/14	Time 0855	Received by laboratory:	Date 8/16/14	Time 0855
Special Reporting Requirements: *None*			Lab Notes:	Temp °C	

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40101771

40101771

Client Name: Cardno ATC

Courier: ☑ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 4027 2471 0557

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used: SR-44 Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 0 /Corr: 0 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 8/16/14
Initials: SB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
-Pace IR Containers Used:	☐Yes	☐No ☑N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	14.
Trip Blank Present:	☐Yes	☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 8/18/14

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: **August 25, 2014** FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☒	No ☐	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool		
List the cooler temperature upon receipt:	0 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☐	NA ☒
Were the soil sample containers filled?	Yes ☒	No ☐	NA ☐
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☒	No ☐
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	
	☐ Other (list):				

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager	Laurie Woelfel Digitally signed by Laurie Woelfel DN: cn=Laurie Woelfel, o=Pace Analytical Services, Inc - Green Bay, ou, email=Laurie.Woelfel@pacelabs.com, c=US Date: 2014.08.25 16:44:20 -05'00'	8/25/14

Cardno ATC
Shaping the Future

September 7, 2014

PROJECT: Laboratory Services
Cardno ATC PROJECT NO.: 008.75116.1043
Cardno ATC WORK ORDER NO.: N/A
SAMPLE RECEIVED: August 15, 2014
TOTAL PAGES: 5

Cardno ATC
8100 Snowville Road
Brecksville, Ohio 44141

SAMPLE DESCRIPTION: Shelby Tube Soil Samples

Enclosed are the laboratory test results for the project shown above.

NUMBER	TEST
2	Specific Gravity
2	Permeability
2	Particle Size Analysis
2	Atterberg Limits

We appreciate the opportunity to be of service to you on this project. If you have any questions, please feel free to contact our office.

Respectfully Submitted,

Jeffrey Strobelt
Lab Manager
for Cardno ATC
Direct Line +1 216-276-5266
Email: jeff.strobelt@cardno.com

Cardno ATC

LABORATORY SAMPLE CHAIN OF CUSTODY

Copy: 1 of 1

TO:

Lab:	**Cardno ATC Indianapolis, IN**
Attention:	**Jeff Strobelt**
Address:	**8100 Snowville Road**
	Brecksville, OH 44141
Phone:	**440-838-7177**
Fax:	

Date:	8/15/2014
Page:	**1** **Of** **1**
Turn around time:	**Standard**
Project Name:	**Speedway Store #3642**
	939 Dixie HWY
	Rossford, Ohio
Project No.:	**008.75116.1043**

FROM:

Report to:	**Dan King**
Address:	8100 Snowville Road
	Brecksville, Ohio 44141
	E-mail results to : dan.king@cardno.com
Phone:	440-838-7177
Fax:	440-838-7181

Sample Type Code: Soil = SO Concrete = CC Aggregate = AG Cement = CE

ITEM	Sample ID Number	Sample Type	Containers	Date Sampled	Time Sampled	Analysis: Unif. Soil Class.	Grain Size	Atterburg Limits	Porosity	Density	Moisture Test						Remarks:
1	ST-2 (6-8')	Soil	ST	8/13/2014	10:28	X	X	X	X	X	X						
2	ST-2 (12-14')	Soil	ST	8/13/2014	10:55	X	X	X	X	X	X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	

Transport Method (circle): P/U by lab Deliver Courier: Airbill No.:

Relinquished by: (name / company)	Date:	Time:	Received by: (name / company)	Date:	Time:
Dan King (Cardno ATC)	8/15/2014				

Sample / Container Condition upon receipt:

September 7, 2014

PROJECT: Laboratory Services
Cardno ATC PROJECT NO.: 008.75116.1043
Cardno ATC WORK ORDER NO.: N/A
SAMPLE RECEIVED: August 15, 2014
TOTAL PAGES: 5

Cardno ATC
8100 Snowville Road
Brecksville, Ohio 44141

SAMPLE DESCRIPTION: Shelby Tube Soil Sample

LABORATORY HYDRAULIC CONDUCTIVITY TEST SUMMARY TRIAXIAL CELL WITH BACK PRESSURE /ASTM D-5084			
TEST CHARACTERISTICS			
Boring No.:	ST-2	Confining Pressure (psi):	75
Sample No.:	N/A	Target Back Pressure Differential (psi):	NA
Depth (ft):	6' to 8'	Target Bottom Burette Pressure (psi):	70
		Target Top Burette Pressure (psi):	70

SAMPLE CHARACTERISTICS		
CHARACTERISTICS	INITIAL	FINAL
Length (in)	3.10	3.08
Diameter (in)	2.85	2.85
Dry Unit Weight (pcf)	**111.5**	112.2
Moisture Content (%)	**19.2**	20.1
B Value	100	

SUMMARY OF FINAL FOUR MEASUREMENTS				
MEASUREMENT	1	2	3	4
Elapsed Time (sec)	480	480	480	720
True Back Pressure Differential (psi)	NA*	NA*	NA*	NA*
Flow Into Sample (cm^3)	NA*	NA*	NA*	NA*
Flow Out of Sample (cm^3)	NA*	NA*	NA*	NA*
Hydraulic Conductivity (cm/sec)	$6.5x10^{-6}$	$6.2x10^{-6}$	$6.3x10^{-6}$	$6.4x10^{-6}$
Average Hydraulic Conductivity (cm/sec)	**$6.4x10^{-6}$**	**(Temperature Corrected)**		

COMMENTS: *Constant volume panel was used for the flow measurement.

Porosity (USCOE EM 1110-2-1906)	
Specific Gravity:	**2.89**
Sample Volumes (% voids filled)	
Water:	16.1
Air:	1.7
Porosity (%):	**17.8**

September 7, 2014

PROJECT: Laboratory Services
Cardno ATC PROJECT NO.: 008.75116.1043
Cardno ATC WORK ORDER NO.: N/A
SAMPLE RECEIVED: August 15, 2014
TOTAL PAGES: 5

Cardno ATC
8100 Snowville Road
Brecksville, Ohio 44141

SAMPLE DESCRIPTION: Shelby Tube Soil Sample

LABORATORY HYDRAULIC CONDUCTIVITY TEST SUMMARY TRIAXIAL CELL WITH BACK PRESSURE /ASTM D-5084			
TEST CHARACTERISTICS			
Boring No.:	ST-2	Confining Pressure (psi):	75
Sample No.:	N/A	Target Back Pressure Differential (psi):	NA
Depth (ft):	12' to 14'	Target Bottom Burette Pressure (psi):	70
		Target Top Burette Pressure (psi):	70

SAMPLE CHARACTERISTICS		
CHARACTERISTICS	INITIAL	FINAL
Length (in)	3.12	3.11
Diameter (in)	2.85	2.85
Dry Unit Weight (pcf)	**113.4**	115.2
Moisture Content (%)	**17.9**	18.4
B Value	100	

SUMMARY OF FINAL FOUR MEASUREMENTS				
MEASUREMENT	1	2	3	4
Elapsed Time (sec)	480	480	480	720
True Back Pressure Differential (psi)	NA*	NA*	NA*	NA*
Flow Into Sample (cm^3)	NA*	NA*	NA*	NA*
Flow Out of Sample (cm^3)	NA*	NA*	NA*	NA*
Hydraulic Conductivity (cm/sec)	$4.4x10^{-6}$	$4.6x10^{-6}$	$4.6x10^{-6}$	$4.7x10^{-6}$
Average Hydraulic Conductivity (cm/sec)	**$4.6x10^{-6}$**	**(Temperature Corrected)**		

COMMENTS: *Constant volume panel was used for the flow measurement.

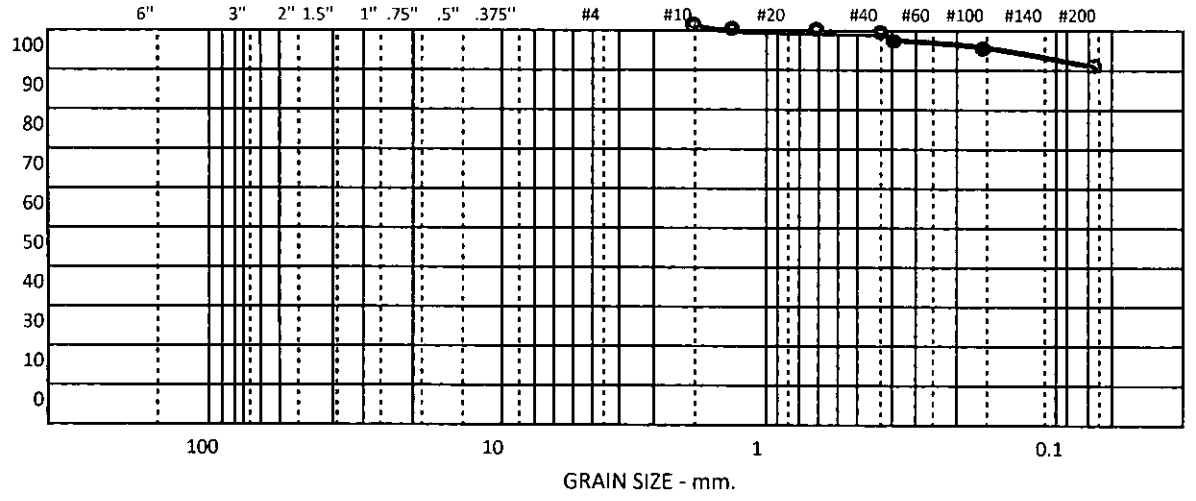
Porosity (USCOE EM 1110-2-1906)	
Specific Gravity:	**2.91**
Sample Volumes (% voids filled)	
Water:	17.4
Air:	1.4
Porosity (%):	**18.8**

Cardno ATC
Shaping the Future

Client: Speedway
Project: Speedway #3642

Project Number: 008.75116.1043

Particle Size Distribution Report



% +3%	% Gravel	% SAND		% FINES	
		Coarse	Fine	Silt	Clay
0.0	0.1	1.1	8.6	42.2	48.1

SIEVE SIZE	PERCENT FINER	SPEC. PERCENT	PASS?
#4	100		
#8	100		
#10	99.9		
#16	99.4		
#30	99.2		
#40	98.9		
#50	96.8		
#100	95.6		
#200	90.3		

Soil Description

Gray, SILT AND CLAY, Trace Sand and Gravel

Atterberg Limits

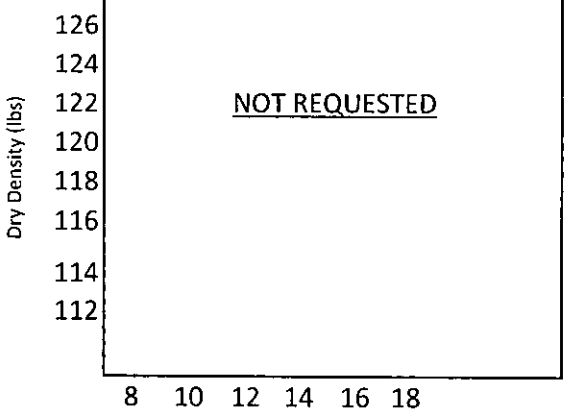
LL = 33 PL =19 PI = 14

Classifications

USCS = CL AASHTO = N/A

Max. Dry Density	Optimum Moisture	CBR Value
N/A	N/A	N/A

Moisture Density Results D698



Source of Sample: Boring ST-2 6'-8'

Tested By: Jeff Strobelt Checked By: _____

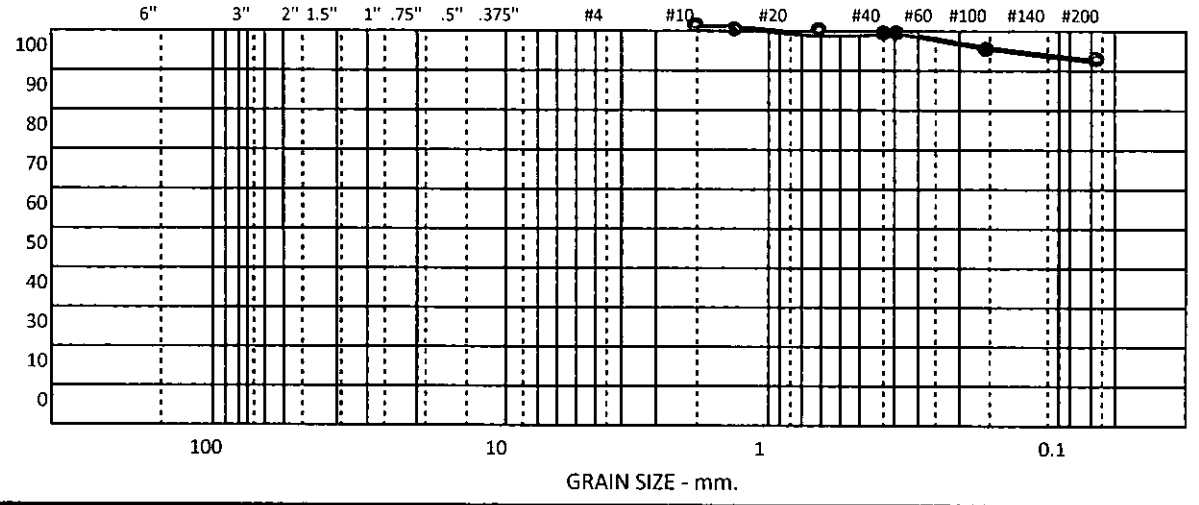
8100 Snowville Road, Brecksville, Ohio 44141 tel: 440-838-7177 fax: 440-838-7181 www.cardno.com

Cardno ATC
Shaping the Future

Client: Speedway
Project: Speedway #3642

Project Number: 008.75116.1043

Particle Size Distribution Report



% +3%	% Gravel	% SAND		% FINES	
		Coarse	Fine	Silt	Clay
0.0	0.0	0.9	6.7	40.3	52.1

SIEVE SIZE	PERCENT FINER	SPEC. PERCENT	PASS?
#4	100		
#8	100		
#10	100		
#16	99.9		
#30	99.3		
#40	99.1		
#50	98.4		
#100	95.7		
#200	92.4		

Soil Description

Gray, SILT AND CLAY, Trace Sand and Gravel

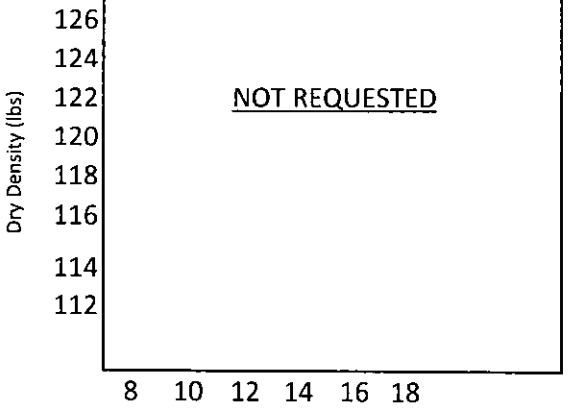
Atterberg Limits

LL = 36 PL =19 PI = 17

Classifications

USCS = CL AASHTO = N/A

Moisture Density Results D698



Max. Dry Density	Optimum Moisture	CBR Value
N/A	N/A	N/A

Source of Sample: Boring ST-2 12'-14'

Tested By: Jeff Strobelt Checked By: _____

8100 Snowville Road, Brecksville, Ohio 44141 tel: 440-838-7177 fax: 440-838-7181 www.cardno.com

APPENDIX D

SOIL BORING LOG

Cardno
Shaping the Future

8100 Snowville Road
Brecksville, Ohio 44141
Telephone: (440) 838-7177
Fax: (440) 838-7181

TEST BORING LOG

CLIENT: Speedway LLC
PROJECT NAME: Speedway Store # 3642
PROJECT ADDRESS: 939 Dixie Highway
PROJECT LOCATION: Rossford, OH 43460

BORING #: ST-2
JOB #: 008.75116.1043
DRAWN BY: AO
APPROVED BY: DK

DRILLING and SAMPLING INFORMATION

Date Started	8/13/2014	Hammer Wt.	NA lbs.
Date Completed	8/13/2014	Hammer Drop	NA in.
Drill Foreman	Envirocore	Spoon Sampler OD	NA in.
Geologist	DK	Rock Core Dia.	NA in.
Boring Method	HA/DP	Shelby Tube OD	3 in.

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Recovery %	Groundwater	Moisture Content	Standard Penetration Test N, Blows/6 inches	Total Photoionizable Vapors (ppm)	Remarks
Asphalt Surface.	0.5		0'-2'	HA		100			NA	0.5	
Silt and clay with trace gravel. Brown and Gray. Medium stiff. Dry.			2'-4'	HA		100			NA	0.7	
	4.0										
No gravel. Brown. Mottled. Soft.		5	4'-6'	HA		100			NA	0.3	FOC Sample Colelcted from 4'-6'
			6'-8.5'	ST		47			NA	3.3	Shelby Tube Collected from 6'-8.5'
	8.0										
Damp.			8.5'-10'	DT		83			NA	515	
	10.0	10									
Wet.			10'-12'	DT		83	○		NA	37	
			12'-14.5'	ST		60			NA	0.6	Shelby Tube Collected from 12'-14.5'
		15	14.5'-16'	DT		75			NA	0.1	FOC Sample Colelcted from 14.5'-16'
	16.0										
End of Boring.											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
DT - Dual Tube
CT - Continuous Tube
MC - Macrocore

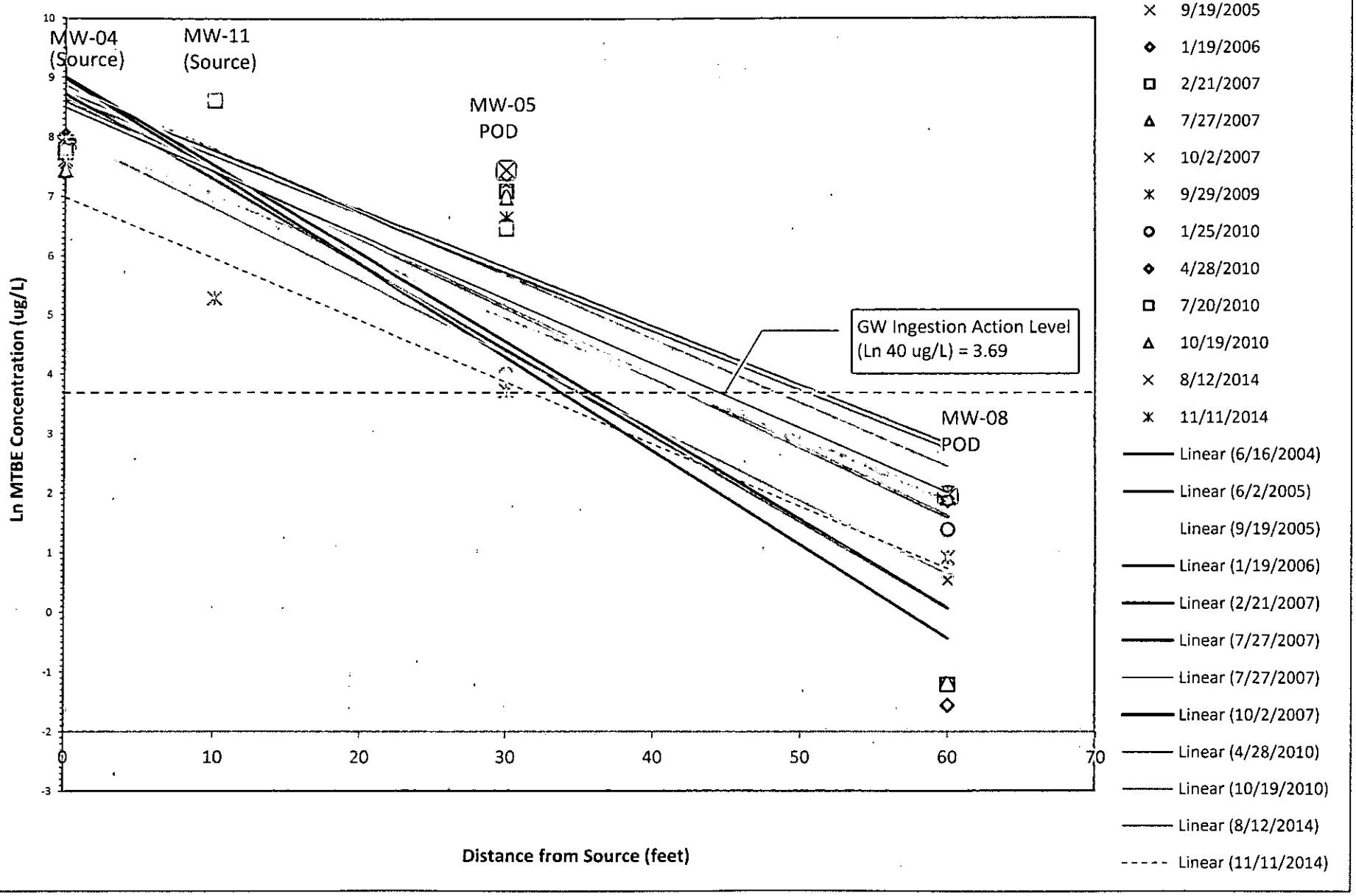
Moisture Content
D = Dry
M = Moist
W = Wet

Depth to Groundwater
Noted on Drilling Tools ____ ft.
○ Water in Sample 10.0 ft.
At Completion (open hole) ____ ft.
After ____ hours ____ ft.
After ____ hours ____ ft.
Cave Depth ____ ft.

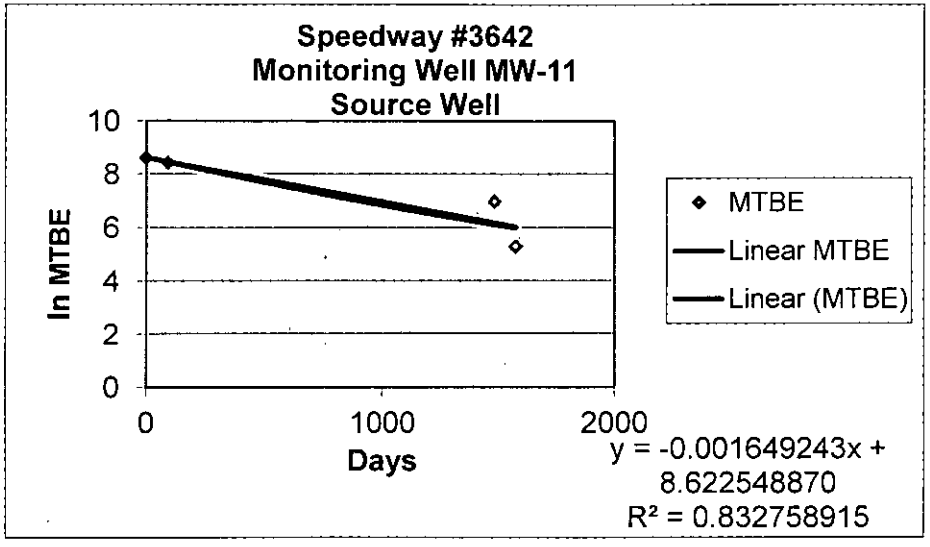
Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling
HA - Hand Auger
DP - Direct Push

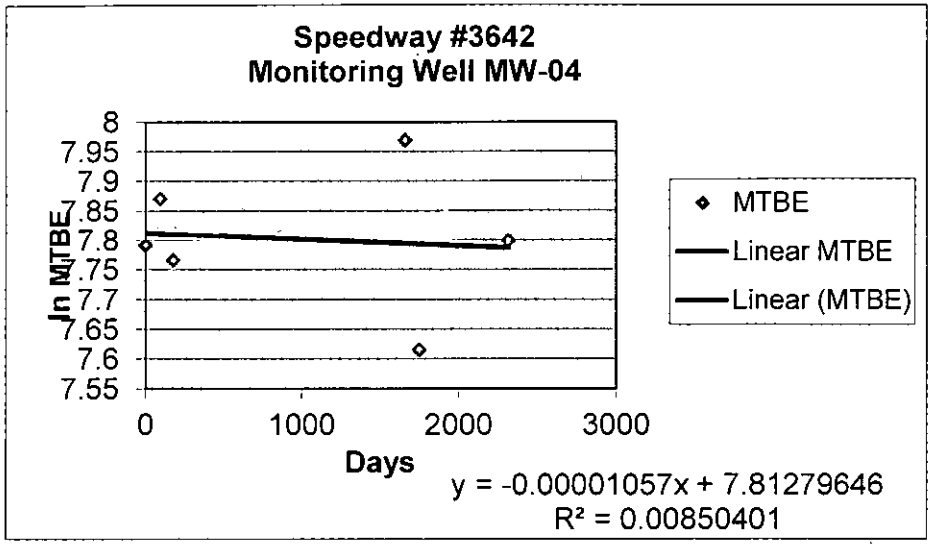
APPENDIX E
REGRESSION ANALYSIS AND SOLUTE HALF-LIFE CALCULATIONS

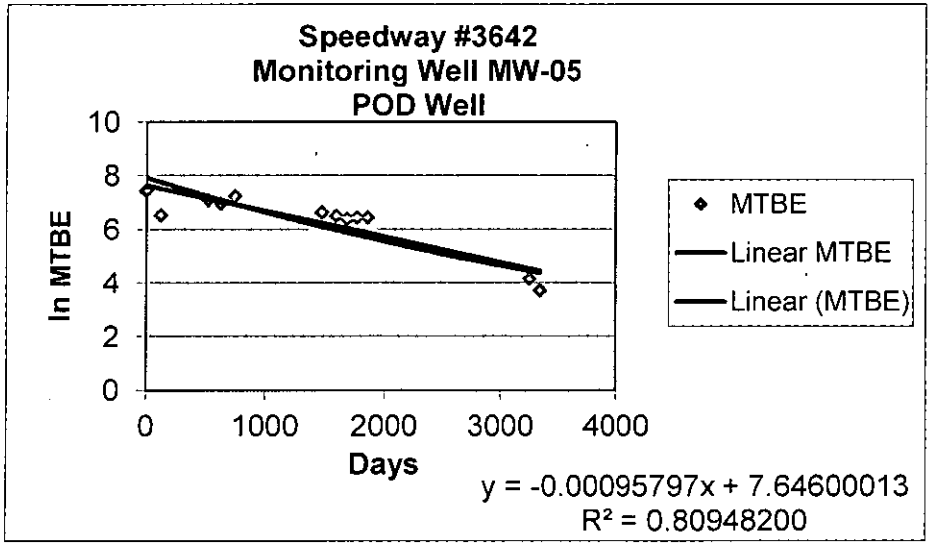
Speedway #3642
MTBE Concentration vs. Distance

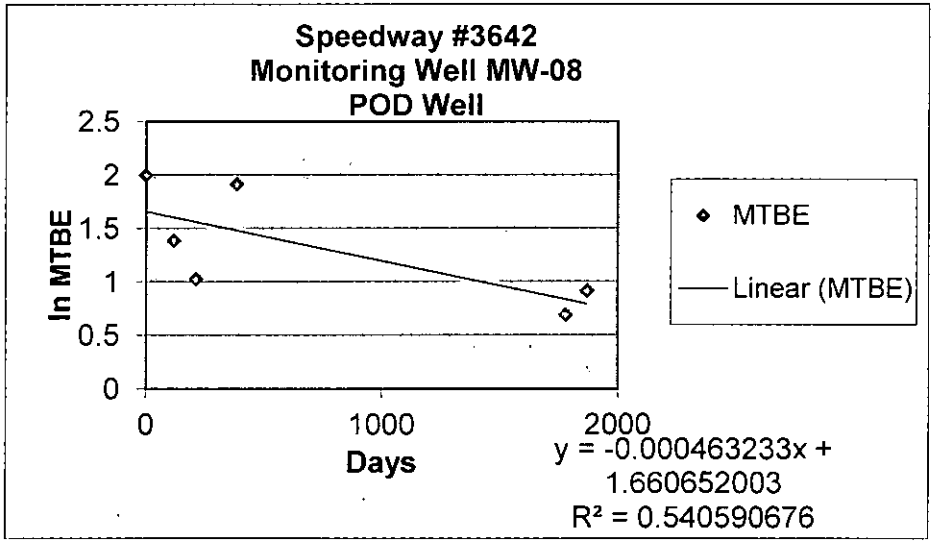


Concentration Versus Time Regression Analysis
MTBE: Speedway #3642









MTBE Half-life Calculations
Speedway #3642

Well ID	Source Decay (k) (per day) (Slope from Linear Trend Line from Regression Graph)	MTBE Half-life (Days) (0.693/k)	MTBE Half-life (Years) [HL(Days) / 365 (Days/Year)]
MW-11	0.001649243	4.20E+02	1.15E+00
MW-4	0.00001057	6.56E+04	1.80E+02
MW-05	0.00095797	7.23E+02	1.98E+00
MW-08	0.000463233	1.50E+03	4.10E+00
		Allowable Site Specific Ranges (years):	1.15 to 180

Average Degradation Rate (k) (per day): 1.5352E-03

*Source well MW-04 has demonstrated decreased concentrations since 2004, however, the degradation rate could not be determined due to fluctuations and "infinite" source concentration remaining.

Speedway Store# 3642 - Rossford, OH

Groundwater Analytical Data for Degradation Rate Analysis and Solute Half Life Determinations

Off Site Monitoring Well	Distance from MW-4 (earliest source well)	Matrix	Sample Date	Days since max at this well	Sample Time	Methyl tert butyl ether	Numeric MTBE conc.	ln (MTBE)
Action Levels						40 (ug/L)		
MW-11	10	Water	9/29/2009		16:50	*7720*	*7720*	
Source Well	10	Water	1/25/2010		18:30	*1660*	*1660*	
MW-11	10	Water	4/28/2010		15:40	*4180*	*4180*	
MW-11	10	Water	7/20/2010	0	14:50	*5490*	*5490*	*8.610683535*
MW-11	10	Water	10/19/2010	91	12:20	*4610*	*4610*	*8.435983136*
MW-11	10	Water	8/12/2014	1484	16:00	*1070*	*1070*	*6.975413927*
MW-11	10	Water	11/11/2014	1575	12:50	*195*	*195*	*5.272999559*
MW-04	0	Water	4/11/2002		0:00	*2600*	*2600*	
Source Well	0	Water	12/20/2002		0:00	*110*	*110*	
MW-04	0	Water	2/19/2003		0:00	*1600*	*1600*	
MW-04	0	Water	6/18/2003		0:00	*850*	*850*	
MW-04	0	Water	3/24/2004		5:54	*2000*	*2000*	
MW-04	0	Water	6/16/2004	0	5:24	*3000*	*3000*	*8.006367568*
MW-04	0	Water	6/2/2005	351	9:03	*2800*	*2800*	*7.937374696*
MW-04	0	Water	9/19/2005	460	14:09	*2600*	*2600*	*7.863266724*
MW-04	0	Water	1/19/2006	582	9:44	*1500*	*1500*	*7.313220387*
MW-04	0	Water	2/21/2007	980	11:51	*2290*	*2290*	*7.736307097*
MW-04	0	Water	7/27/2007	1136	11:00	*1700*	*1700*	*7.43838353*
MW-04	0	Water	10/2/2007	1203	8:20	*1900*	*1900*	*7.549609165*
MW-04	0	Water	9/29/2009	1931	17:00	*2430*	*2430*	*7.795646536*
MW-04	0	Water	1/25/2010	2049	18:50	*2420*	*2420*	*7.791522819*
MW-04	0	Water	4/28/2010	2142	15:30	*2620*	*2620*	*7.870929597*
MW-04	0	Water	7/20/2010	2225	14:20	*2360*	*2360*	*7.766416898*
MW-04	0	Water	10/19/2010	2316	12:10	*2440*	*2440*	*7.799753318*
MW-04	0	Water	8/12/2014	3709	15:50	*2890*	*2890*	*7.969011781*
MW-04	0	Water	11/11/2014	3800	12:40	*2030*	*2030*	*7.615791072*
MW-05	30	Water	4/11/2002		0:00	*270*	*270*	
POD Well	30	Water	12/20/2002		0:00	*500*	*500*	
MW-05	30	Water	2/19/2003		0:00	*630*	*630*	
MW-05	30	Water	6/18/2003		0:00	*910*	*910*	
MW-05	30	Water	3/24/2004		5:46	*990*	*990*	
MW-05	30	Water	6/16/2004		5:21	*1200*	*1200*	
MW-05	30	Water	6/2/2005		9:59	*1520*	*1520*	
MW-05	30	Water	9/19/2005	0	14:05	*1700*	*1700*	*7.43838353*
MW-05	30	Water	1/19/2006	122	10:33	*680*	*680*	*6.522092798*
MW-05	30	Water	2/21/2007	520	11:38	*1190*	*1190*	*7.081708586*
MW-05	30	Water	6/7/2007	626	12:10	*1060*	*1060*	*6.966024187*
MW-05	30	Water	10/2/2007	743	8:15	*1400*	*1400*	*7.244227516*
MW-05	30	Water	9/29/2009	1471	16:40	*754*	*754*	*6.625392368*

Speedway Store# 3642 - Rossford, OH

Groundwater Analytical Data for Degradation Rate Analysis and Solute Half Life Determinations

Off Site Monitoring Well	Distance from MW-4 (earliest source well)	Matrix	Sample Date	Days since max at this well	Sample Time	Methyl tert butyl ether	Numeric MTBE conc.	ln (MTBE)
Action Levels						40 (ug/L)		
MW-05	30	Water	1/25/2010	1589	18:40	***666***	***666***	***6.501289671***
MW-05	30	Water	4/28/2010	1682	15:50	***592***	***592***	***6.383506635***
MW-05	30	Water	7/20/2010	1765	14:30	***623***	***623***	***6.434546519***
MW-05	30	Water	10/19/2010	1856	12:30	***626***	***626***	***6.439350371***
MW-05	30	Water	8/12/2014	3249	16:10	***63.4***	***63.4***	***4.149463861***
MW-05	30	Water	11/11/2014	3340	13:00	***41.1***	***41.1***	***3.716008122***
MW-08	60	Water	2/19/2002		0:00	12		
POD Well	60	Water	12/20/2002		0:00	13		
MW-08	60	Water	6/18/2003		0:00	15	15	2.708050201
MW-08	60	Water	3/24/2004		5:40	7.9	7.9	2.066862759
MW-08	60	Water	6/16/2004		5:18	6.6	6.6	1.887069649
MW-08	60	Water	6/2/2005		10:04	7.3	7.3	1.987874348
MW-08	60	Water	9/19/2005		14:03	7	7	1.945910149
MW-08	60	Water	1/19/2006		10:36	< 0.210	0.21	-1.560647748
MW-08	60	Water	2/21/2007		11:30	< 0.300	0.3	-1.203972804
MW-08	60	Water	6/7/2007		11:40	< 0.300	0.3	-1.203972804
MW-08	60	Water	10/2/2007		8:10	1.7	1.7	0.530628251
MW-08	60	Water	9/29/2009	0	15:30	7.4	7.4	2.00148
MW-08	60	Water	1/25/2010	118	17:20	4	4	1.386294361
MW-08	60	Water	4/28/2010	211	14:20	2.8	2.8	1.029619417
MW-08	60	Water	10/19/2010	385	11:50	6.8	6.8	1.916922612
MW-08	60	Water	8/12/2014	1778	14:40	2	2	0.693147181
MW-08	60	Water	11/11/2014	1869	11:30	2.5	2.5	0.916290732
MW-10		Water	1/19/2006		9:28	< 0.210		
		Water	2/21/2007		11:22	23		
		Water	6/7/2007		12:00	***66***		
		Water	10/2/2007		7:50	***77***		
		Water	9/29/2009		15:50	***142***		
		Water	1/25/2010		17:40	***128***		
		Water	4/28/2010		14:40	***70.6***		
		Water	7/20/2010		14:40	***123***		
		Water	10/19/2010		12:00	***123***		
		Water	8/12/2014		15:00	***453***		***6.115892125***
		Water	11/11/2014		11:50	***288***		***5.66296048***

APPENDIX F
HYDRAULIC CONDUCTIVITY EVALUATION

Speedway #3642 Rossford, Ohio

Hydraulic Conductivity Evaluation

Slug Test Data (2/19/2003)	Hydraulic Conductivity (cm/sec)
MW-4	3.90E-05
MW-6	3.94E-07
MW-7	2.18E-05
MW-8	2.55E-06

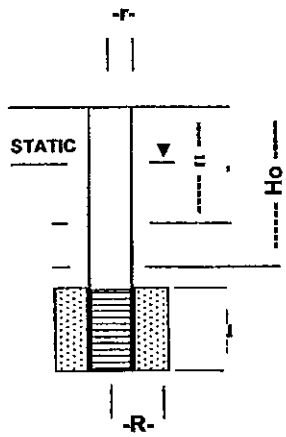
Calculations / Ranges		
Maximum	3.90E-05	
Minimum	3.94E-07	
Geometric Mean	**5.41E-06**	
Mean x 10	5.41E-05	
Mean / 10	5.41E-07	
Allowable Range	3.90E-05	to
	5.41E-07	

Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-4

Static Head (ft)	8.06
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	7.96
Quantity Removed - Q (gal)	2.5



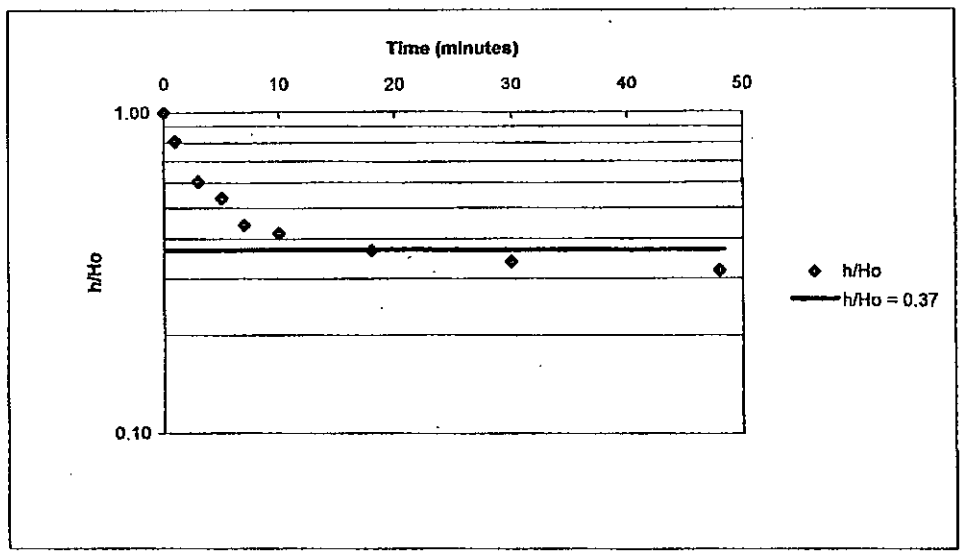
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		8.06		
0	1.00	15.00	6.94	Ho
1	0.81	13.67	5.61	h_1
3	0.61	12.26	4.2	h_2
5	0.54	11.78	3.72	h_3
7	0.44	11.13	3.07	h_4
10	0.42	10.95	2.89	h_5
18	0.37	10.61	2.55	h_6
30	0.34	10.41	2.35	h_7
48	0.32	10.26	2.2	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

7.68E-05	ft/min
0.11	ft/day
3.90E-05	cm/sec

$T_o =$ **18.02** **min**

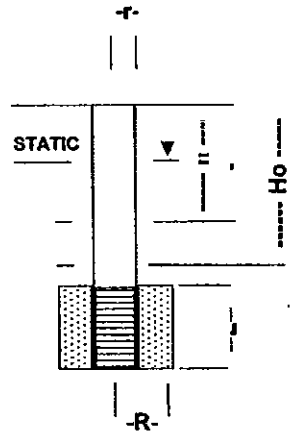


Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-6

Static Head (ft)	19.98
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	10
Quantity Removed - Q (gal)	5.5



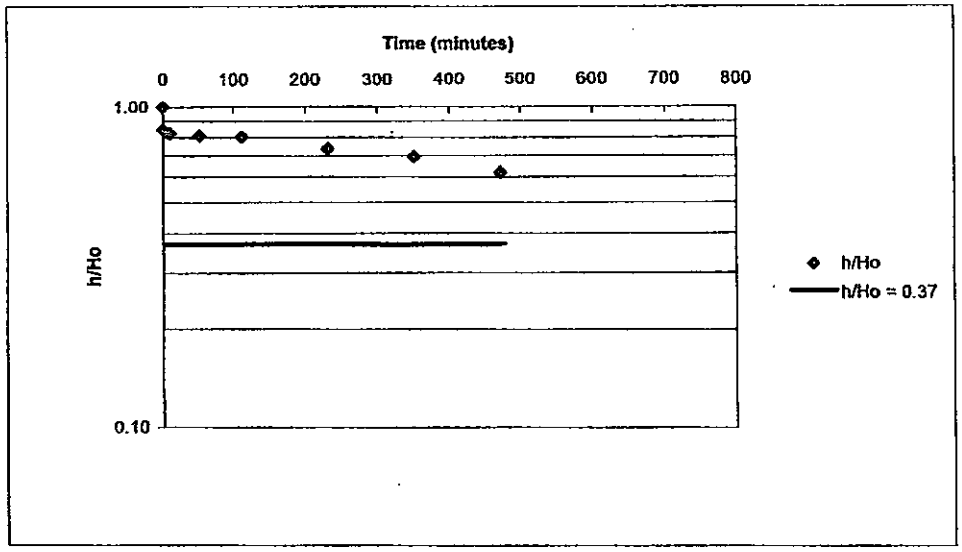
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		19.98		
0	1.00	36.97	16.99	Ho
1	0.85	34.36	14.38	h_1
4	0.83	34.12	14.14	h_2
10	0.82	33.97	13.99	h_3
52	0.81	33.77	13.79	h_4
112	0.80	33.63	13.65	h_5
232	0.74	32.50	12.52	h_6
352	0.70	31.80	11.82	h_7
472	0.62	30.50	10.52	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

7.76E-07	ft/min
0.00	ft/day
3.94E-07	cm/sec

$T_o =$ **1521.32** **min**

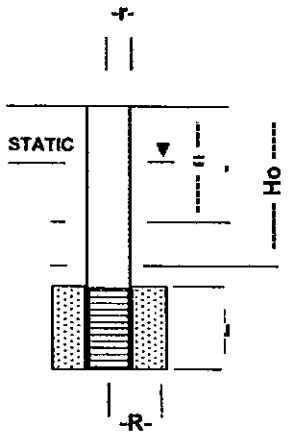


Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-7

Static Head (ft)	9.82
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	9.44
Quantity Removed - Q (gal)	5.25



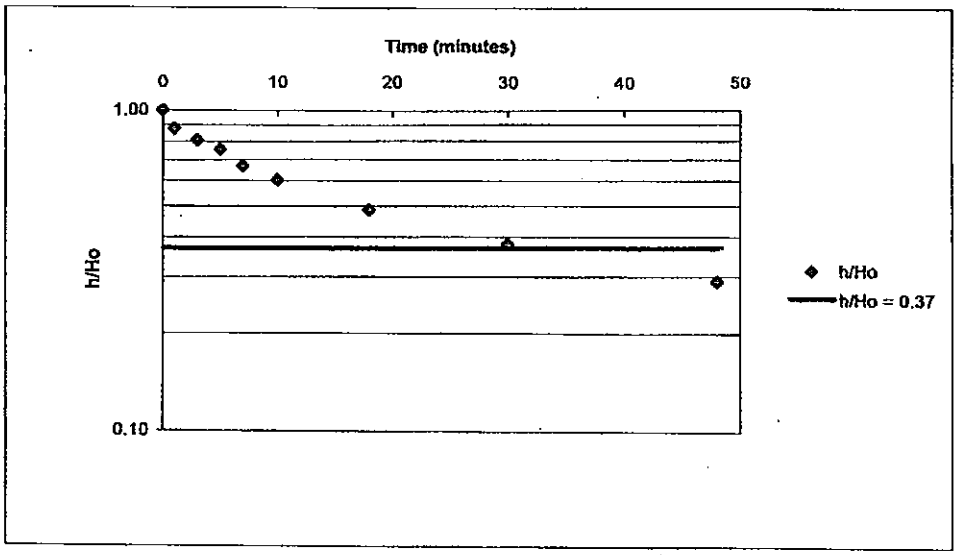
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		9.82		
0	1.00	17.13	7.31	Ho
1	0.88	16.22	6.4	h_1
3	0.81	15.73	5.91	h_2
5	0.76	15.34	5.52	h_3
7	0.67	14.70	4.88	h_4
10	0.60	14.23	4.41	h_5
18	0.49	13.37	3.55	h_6
30	0.38	12.60	2.78	h_7
48	0.29	11.94	2.12	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

4.30E-05	ft/min
0.06	ft/day
2.18E-05	cm/sec

$T_o =$ **28.62 min**

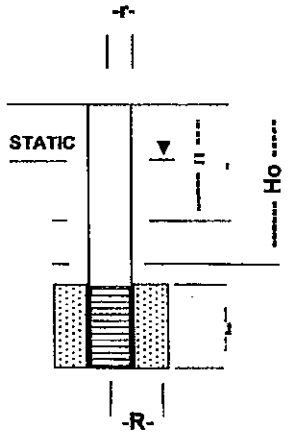


Hvorslev's Method for hydraulic conductivity (k)

SSA Unit #3642
Location: 939 East River Road
Rossford, Ohio
Date: 19 February 2003

Well No: MW-8

Static Head (ft)	13.05
Pipe Radius - r (ft)	0.083
Bore Hole Radius - R (ft)	0.333
Saturated Screen Length - L (ft)	6
Quantity Removed - Q (gal)	1.5



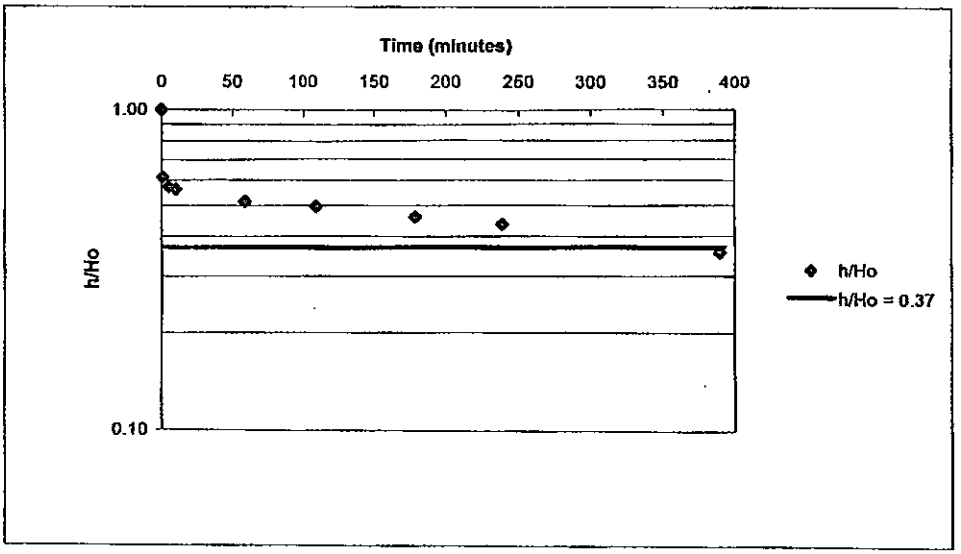
Time (min)	h/Ho	Water Depth (ft)	Recovery (depth - static)	
Static		13.05		
0	1.00	18.25	5.2	Ho
1	0.62	16.25	3.2	h_1
5	0.57	16.02	2.97	h_2
10	0.56	15.96	2.91	h_3
59	0.51	15.72	2.67	h_4
109	0.50	15.63	2.58	h_5
179	0.46	15.44	2.39	h_6
239	0.44	15.32	2.27	h_7
390	0.36	14.90	1.85	h_8

Hydraulic Conductivity Calculation

$k = [r^2 \ln(L/R)] / [2LT_o] =$

5.02E-06	ft/min
0.01	ft/day
2.55E-06	cm/sec

$T_o =$ **333.12 min**



APPENDIX G
MTBE BIOSCREEN MODEL CALIBRATION

Speedway #3642, Rossford, OH
Tier 3 Evaluation: F&T Model Calibration Results Summary

Benzene Half Life (yr)	Hydraulic Conductivity (cm/sec)	Elapsed Time from 6/14/2004 (yrs)[1]	Actual POD Concentration (mg/L) MW-5 (11/11/2014)	BUSTRSCREEN Predicted POD Concentration (mg/L)	Actual POD Concentration (mg/L) MW-8 (11/11/2014)	BUSTRSCREEN Predicted POD Concentration (mg/L)	Comparison Predicted versus Actual[2]
4.1	3.91E-05	10.5	0.0411	1.674	0.0025	0.302	OP
4.1	5.41E-07	10.5	0.0411	0.000	0.0025	0.000	UP
1.15	3.91E-05	10.5	0.0411	0.300	0.0025	0.015	OP[3]
1.15	5.41E-07	10.5	0.0411	0.000	0.0025	0.000	UP
1.15	3.91E-05	4.25	0.0411	0.204	0.0025	0.001	UP[3]
2.5	**3.91E-05**	4.25	0.0411	0.475	0.0025	0.0028	OP[3,4]

[1] Elapsed time from original source well MW-04 maximum historic concentration detected 6/14/2004 (Pre-IRA, as not influenced by IRA) along with maximum Post-IRA concentration from MW-11 (7/20/2010) to POD 11/11/2014. Modeling assumption that MTBE concentrations migration in GW began prior to IRA for MW-4 and PODs.

[2] OP = Actual concentration at POD is overpredicted by model simulation; model valid
UP = Actual concentration at POD is underpredicted by model simulation

[3] Additional verification run for elapsed time 4.25 years from MW-11 Post-IRA max 7/2010 to PODs 11/2014

[4] Selected half life and hydraulic conductivity values

BIOSCREEN Input Table for MTBE Migration
Tier 3 Evaluation
Speedway #3642, Rossford, OH

INPUT/ PARAMETER	INPUT	UNIT	REFERENCE *
SEEPAGE VELOCITY	See models	ft/yr	Seepage Velocity = Hydraulic Conductivity*Hydraulic Gradient/Porosity
HYDRAULIC CONDUCTIVITY	3.9 E-5 to 5.41E-7	cm/sec	Allowable range of hydraulic conductivity values from evaluation (max to min) Selected in calibration: 3.9E-5 cm/sec
HYDRAULIC GRADIENT	0.03	ft/ft	BUSTR request, as used in previous evaluations
POROSITY	0.188	cm^3/cm^3	ST-2 (12-14') (8/13/2014)
ESTIMATED PLUME LENGTH	90	ft	Estimated from site data
SOIL BULK DENSITY	1.816 (113.4 pcf)	kg/L	ST-2 (12-14') (8/13/2014)
PARTITION COEFFICIENT	6	L/kg	BUSTR Default Value
FRACTION ORGANIC CARBON (foc)	0.0119	g oc/ g soil	ST-02 (14-16') (8/13/2014) By Walkley Black Method
1ST ORDER DECAY COEFFICIENT	See models	per year	Calculation from half-life value
SOLUTE HALF LIFE	1.15 to 180	years	Site specific values (From degradation rate analysis of monitoring wells MW-11, MW-4, MW-5 and MW-8) (calibrated with 1.15 to 4.1) Selected half-life value: 2.5 years
MODELED LENGTH	250	ft	Point of Exposure
MODELED AREA WIDTH	160	ft	Estimated, two times source width
SIMULATION TIME	10.5 4.25 52	years	Elapsed time for POD models : (6/14/2004 to 11/11/2014 ~10.5 years) (7/20/2010 to 11/11/2014~4.25 years) Estimated to reach steady state conditions
SOURCE WIDTH	80 total 40' MW-11 40' MW-04	feet	Estimated from site data
SOURCE CONCENTRATIONS	5.49 (MW-11) 3 (MW-4)	mg/L	Maximum concentrations found on-site: MW-11 Post-IRA 5.49 mg/L (7/20/2010) *(Pre-IRA 7.72 mg/L (9/29/2009)* MW-4 (6/14/2004) Not influenced by IRA (*IRA Completion Report* 2010)
SRCE THICKNESS IN URATED ZONE	10	ft	BUSTR Guidelines
WELLS	MW-5 MW-8		30 feet downgradient from MW-4 60 feet downgradient from MW-4 PODs approved in previous 2006 *Tier 2 Addendum* .

SSTL CONCENTRATION	15	mg/L	Maximum allowable concentration in source area that will degrade to below the Tier 1 Action Level prior to reaching the POE.
SOLUBLE MASS	Infinite	kg	BUSTR Guidelines

*When referencing field data, refer to the appropriate report where this information was previously presented to BUSTR.

BUSTR References

1. American Society for Testing and Materials (ASTM), 1995, "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites", ASTM E-1739-95, Philadelphia, PA.
2. Dominico, P.A. 1987. An Analytical Model for Multidimensional Transport of a Decaying Contaminant Species. Journal of Hydrology, 91 (1987) 49-58.
3. Newell, C.J., McLeod R.K. and J.R. Gonzales, 1996. "Bioscreen Natural Attenuation Decision Support System", Users Manual Version 1.3, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, OH.
4. Bureau of Underground Storage Tank Regulations (BUSTR), 2001, "Technical Guidance Manual for 1999 Closure and Corrective Action Rules". Ohio Department of Commerce, Division of State Fire Marshal. Columbus, OH.

Fractional Organic Carbon (foc) Data
Speedway 3642, Rossford, OH, Tier 3 Calibration for MTBE

Sample ID	Depth	Sample Date	Fractional Organic Carbon (foc) by Walkley Black Method (mg/kg)	foc unitless (g oc/g soil)
ST-02	4-6'	8/13/2014	8,870	0.00887
ST-02	14-16'	8/13/2014	11,900	0.0119

Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence

Version 1.4

Speedway #3642
MTBE migration
POD calibration run

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	6.4	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.188	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

MW-11
/-4

3. ADSORPTION

Retardation Factor*	R	1.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.816	(kg/l)
Partition Coefficient	Koc	6	(L/kg)
FractionOrganicCarbon	foc	0.0119	(-)

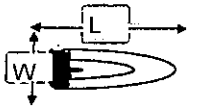
4. BIODEGRADATION

1st Order Decay Coeff*	lambda	1.7E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	4.10	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	100	(ft)
Modeled Area Width*	160	(ft)
Simulation Time*	10.5	(yr)

since 7/2004 (MW-04)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 (ft)

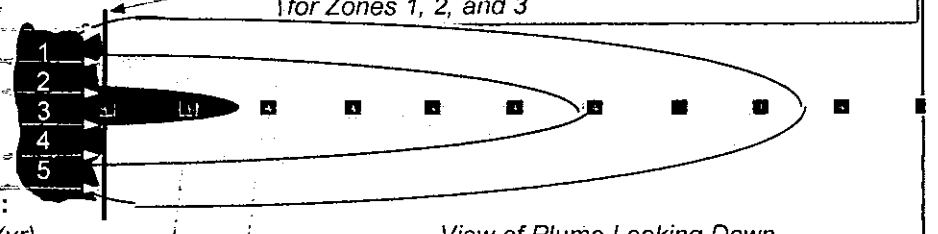
Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)	2.03/0.195			.041			.003				

11/11/2014 MW-4/MW-11 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

Help | Recalculate

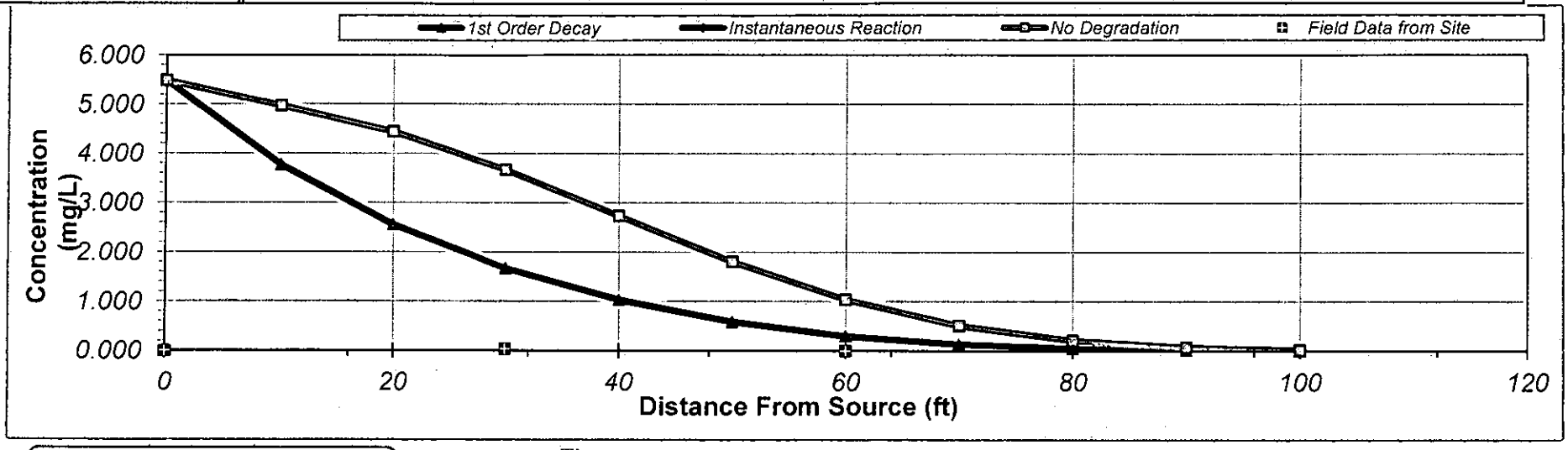
Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	4.969	4.441	3.671	2.739	1.808	1.039	0.513	0.216	0.077	0.023
1st Order Decay	5.490	3.771	2.557	1.674	1.035	0.589	0.302	0.137	0.054	0.018	0.005
Inst. Reaction	5.490	4.969	4.441	3.671	2.739	1.808	1.039	0.513	0.216	0.077	0.023
Field Data from Site	2.03/0.195			0.0411			0.0025				



Calculate

Time:
10.5 Years

Return to

Recalculate This

Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — Version 1.4

Speedway #3642
MTBE migration
POD calibration run

Data Input Instructions:
1. Enter value directly....or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
→ Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	6.4	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.188	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	1.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.816	(kg/l)
Partition Coefficient	Koc	6	(L/kg)
FractionOrganicCarbon	foc	0.0119	(-)

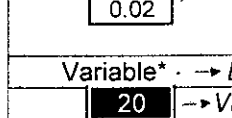
4. BIODEGRADATION

1st Order Decay Coeff*	lambda	6.0E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	1.15	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

Modeled Area Length*	100	(ft)
Modeled Area Width*	160	(ft)
Simulation Time*	10.5	(yr)

since 7/2010 (MW-04)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 (ft)

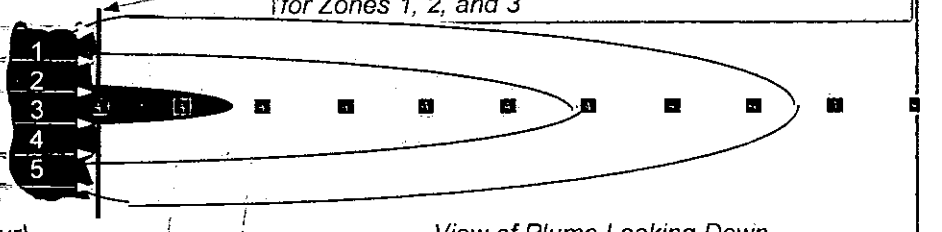
Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)	2.03/0.195			.041			.003				
11/11/2014	MW-4/MW-11			MW-5			MW-8				

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

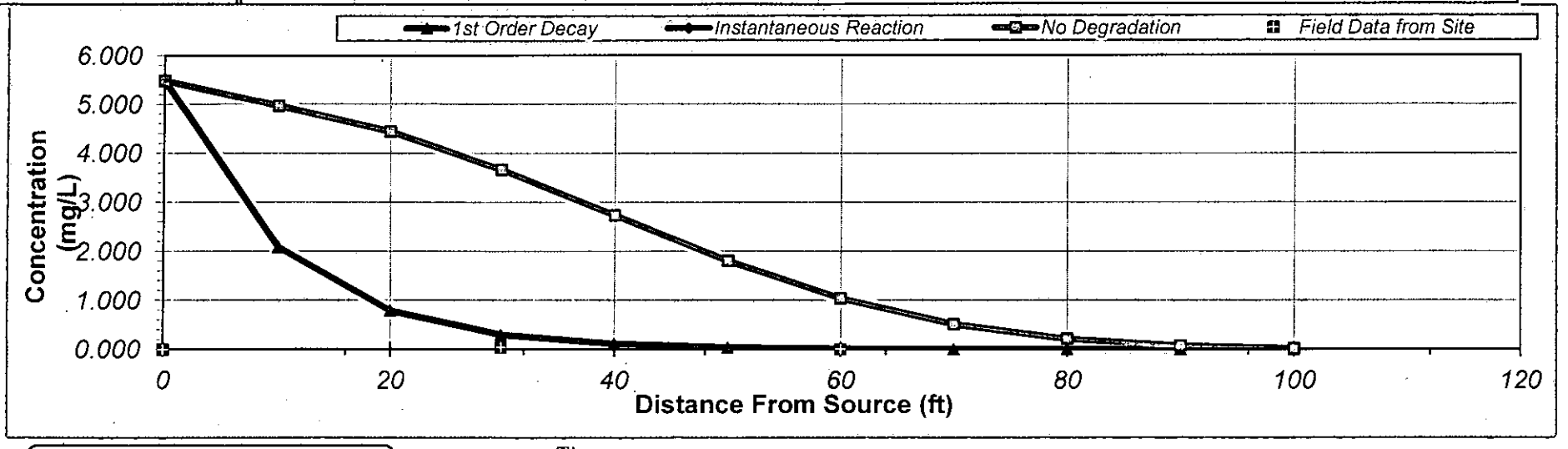
Help | Recalculate

Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	4.969	4.441	3.671	2.739	1.808	1.039	0.513	0.216	0.077	0.023
1st Order Decay	5.490	2.085	0.791	0.300	0.112	0.042	0.015	0.005	0.002	0.000	0.000
Inst. Reaction	5.490	4.969	4.441	3.671	2.739	1.808	1.039	0.513	0.216	0.077	0.023
Field Data from Site	2.03/0.195			0.041			0.003				



Calculate

Time: 10.5 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE migration
POD calibration run

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	0.1	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	5.4E-07	*(cm/sec)*
Hydraulic Gradient	*i*	0.03	*(ft/ft)*
Porosity	*n*	0.188	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	6.5	*(ft)*
Transverse Dispersivity*	*alpha y*	0.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	90	*(ft)*

MW-11 /-4

3. ADSORPTION

Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.816	*(kg/l)*
Partition Coefficient	*Koc*	6	*(L/kg)*
FractionOrganicCarbon	*foc*	0.0119	*(-)*

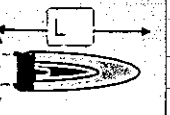
4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.6E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	4.41	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	0	*(mg/L)*
Delta Nitrate*	*NO3*	0	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0	*(mg/L)*
Delta Sulfate*	*SO4*	0	*(mg/L)*
Observed Methane*	*CH4*	0	*(mg/L)*

5. GENERAL

Modeled Area Length*	100	*(ft)*
Modeled Area Width*	160	*(ft)*
Simulation Time*	10.5	*(yr)*

since 2004 (MW-4)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 *(ft)*

Source Zones:

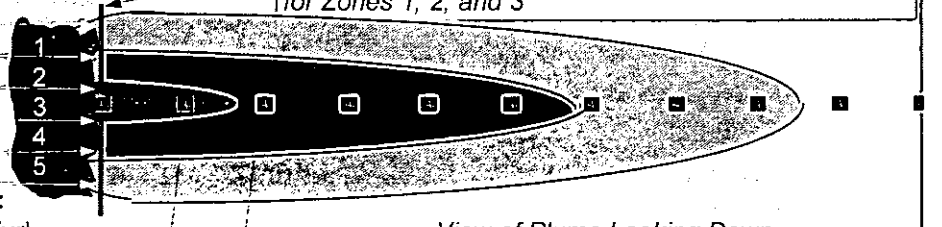
Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass	Infinite	*(Kg)*

In Source NAPL, Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

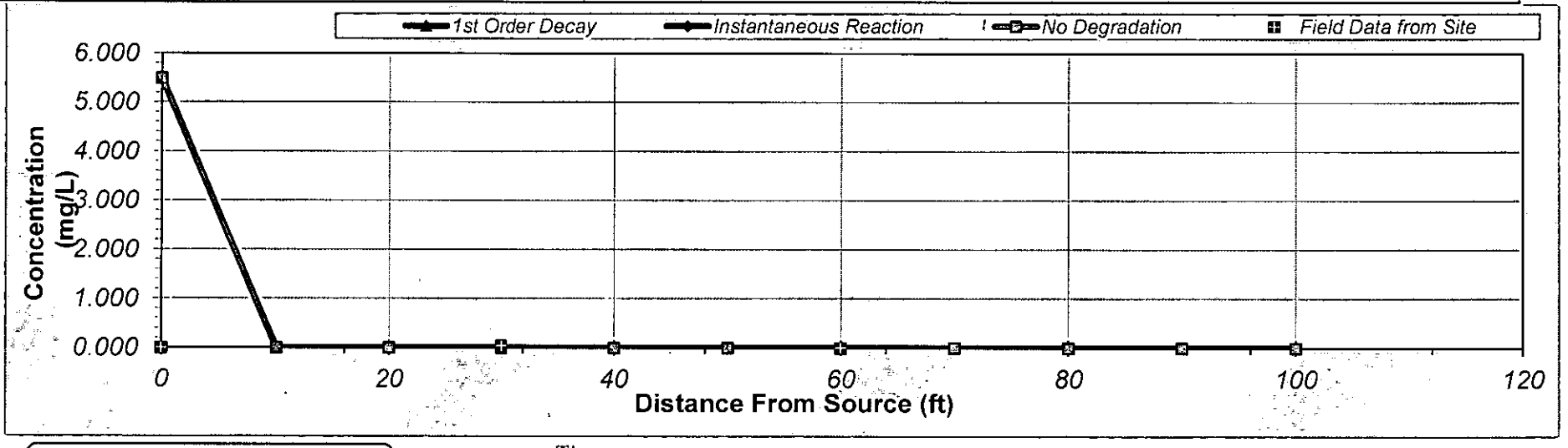
Concentration (mg/L)	2.03/0.195			.041			.003				
Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
	MW-4/MW-11			MW-5			MW-8				

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN	**RUN ARRAY**	***Help***	Recalculate
View Output	**View Output**	Paste Example Dataset	
		Restore Formulas for Vs,	

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.490	0.000	0.000	0.00000	0.00000	0.00000	0.00000	0.000	0.000	0.000	0.000
Inst. Reaction	5.490	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.03/0.195			0.041			0.003				



Time:
10.5 Years

Calculate

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE migration
POD calibration run

Data Input Instructions:

115 (or 0.02) — 1. Enter value directly....or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 ← Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	0.1	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	5.4E-07	*(cm/sec)*
Hydraulic Gradient	*i*	0.03	*(ft/ft)*
Porosity	*n*	0.188	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	6.5	*(ft)*
Transverse Dispersivity*	*alpha y*	0.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	90	*(ft)*

3. ADSORPTION

Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.816	*(kg/l)*
Partition Coefficient	*Koc*	6	*(L/kg)*
FractionOrganicCarbon	*foc*	0.0119	*(-)*

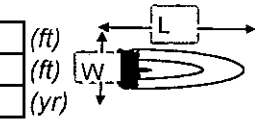
4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.0E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	1.15	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	0	*(mg/L)*
Delta Nitrate*	*NO3*	0	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0	*(mg/L)*
Delta Sulfate*	*SO4*	0	*(mg/L)*
Observed Methane*	*CH4*	0	*(mg/L)*

5. GENERAL

Modeled Area Length*	100	*(ft)*
Modeled Area Width*	160	*(ft)*
Simulation Time*	10.5	*(yr)*

since 2004 (MW-4)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 *(ft)*

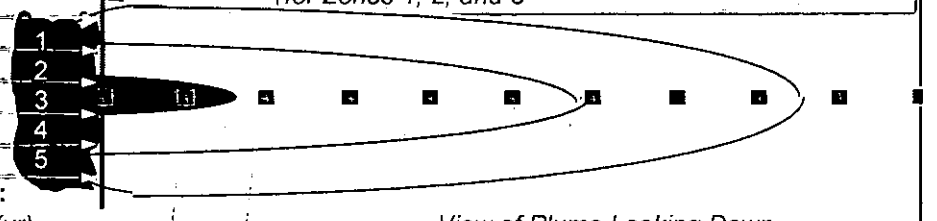
Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)	2.03/0.195			.041			.003				
	MW-4/MW-11			MW-5			MW-8				

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate

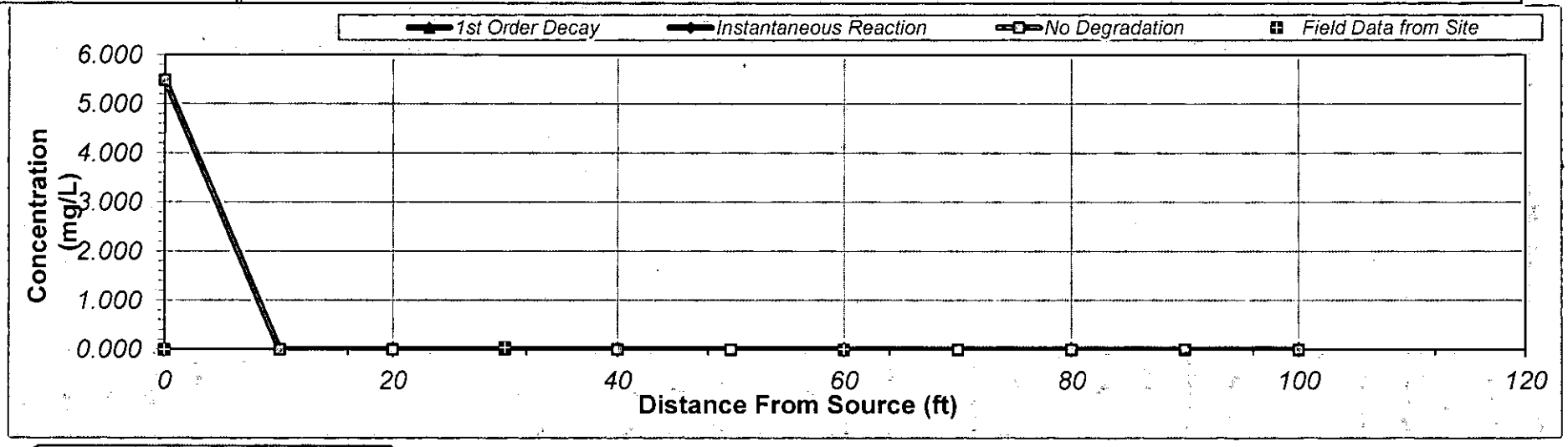
Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	5.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	5.490	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site	2.03/0.195			0.041			0.003				



Calculate

Time:

10.5 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE migration
POD validation/calibration run

Data Input Instructions:
1. Enter value directly....or
2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	6.4	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	3.9E-05	*(cm/sec)*
Hydraulic Gradient	*i*	0.03	*(ft/ft)*
Porosity	*n*	0.188	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	6.5	*(ft)*
Transverse Dispersivity*	*alpha y*	0.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	90	*(ft)*

4 MW-11 4

3. ADSORPTION

Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.816	*(kg/l)*
Partition Coefficient	*Koc*	6	*(L/kg)*
FractionOrganicCarbon	*foc*	0.0119	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.0E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	1.15	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	0	*(mg/L)*
Delta Nitrate*	*NO3*	0	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0	*(mg/L)*
Delta Sulfate*	*SO4*	0	*(mg/L)*
Observed Methane*	*CH4*	0	*(mg/L)*

5. GENERAL

Modeled Area Length*	100	*(ft)*
Modeled Area Width*	160	*(ft)*
Simulation Time*	4.3	*(yr)*

since 2010 (MW-11)

115 ↑ or 0.02

20

6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 *(ft)*

Source Zones:

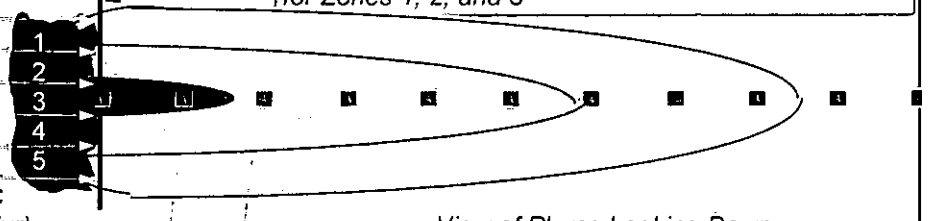
Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass	Infinite	*(Kg)*

In Source NAPL, Soil

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)	2.03/0.195			.041			.003				

MW-4/MW-11 MW-5 MW-8

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

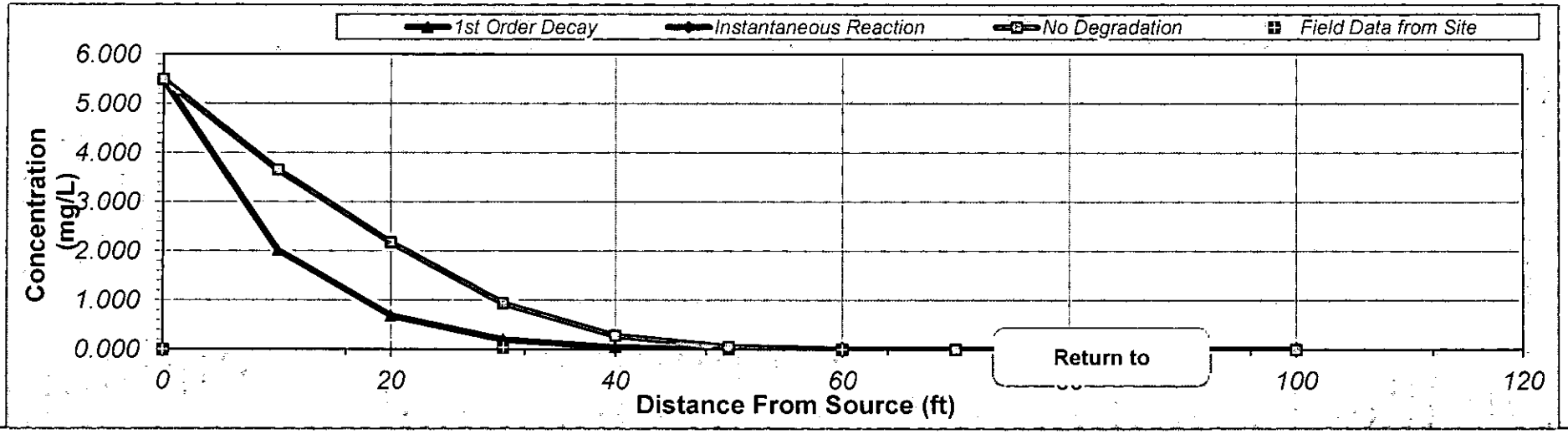
Help — Recalculate

Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	*Distance from Source (ft)* 0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	3.649	2.179	0.941	0.280	0.055	0.007	0.001	0.000	0.000	0.000
1st Order Decay	5.490	2.016	0.693	0.204	0.047	0.008	0.001	0.000	0.000	0.000	0.000
Inst. Reaction	5.490	3.649	2.179	0.941	0.280	0.055	0.007	0.001	0.000	0.000	0.000
Field Data from Site	2.03/0.195			0.041			0.003				



BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE migration
POD validation run

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	6.4	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	3.9E-05	*(cm/sec)*
Hydraulic Gradient	*i*	0.03	*(ft/ft)*
Porosity	*n*	0.188	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	6.5	*(ft)*
Transverse Dispersivity*	*alpha y*	0.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	90	*(ft)*

4 ***MW-11*** 4

3. ADSORPTION

Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.816	*(kg/l)*
Partition Coefficient	*Koc*	6	*(L/kg)*
FractionOrganicCarbon	*foc*	0.0119	*(-)*

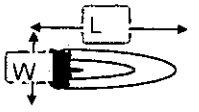
4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	2.8E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	2.50	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	0	*(mg/L)*
Delta Nitrate*	*NO3*	0	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0	*(mg/L)*
Delta Sulfate*	*SO4*	0	*(mg/L)*
Observed Methane*	*CH4*	0	*(mg/L)*

5. GENERAL

Modeled Area Length*	100	*(ft)*
Modeled Area Width*	160	*(ft)*
Simulation Time*	4.3	*(yr)*

since 2010 (MW-11)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 *(ft)*

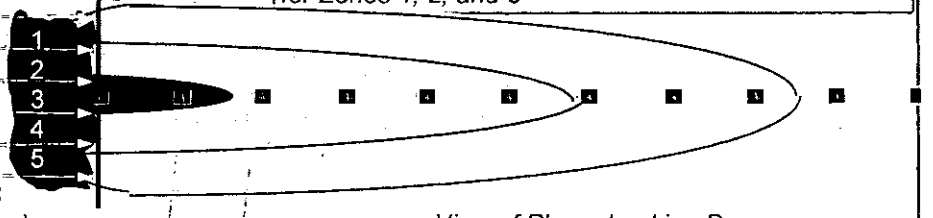
Source Zones:

	Width* (ft)	Conc. (mg/L)*
1	0	0
2	20	3
3	40	5.49
4	20	3
5	0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	10	20	30	40	50	60	70	80	90	100
Concentration (mg/L)	2.03/0.195			.041			.003				
	MW-4/MW-11			MW-5			MW-8				

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

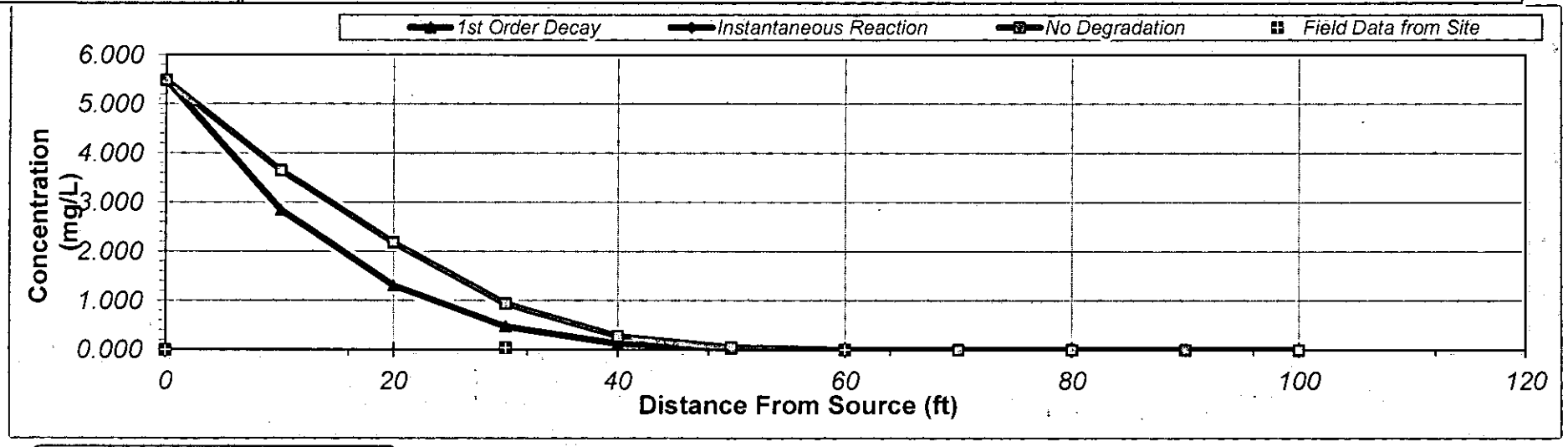
Help — Recalculate

Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	0	10	20	30	40	50	60	70	80	90	100
No Degradation	5.490	3.649	2.179	0.941	0.280	0.055	0.007	0.001	0.000	0.000	0.000
1st Order Decay	5.490	2.842	1.309	0.475	0.126	0.023	0.0028	0.000	0.000	0.000	0.000
Inst. Reaction	5.490	3.649	2.179	0.941	0.280	0.055	0.007	0.001	0.000	0.000	0.000
Field Data from Site	2.03/0.195			0.041			0.0025				



Calculate

Time:

4.3 Years

Return to

Recalculate This

APPENDIX H
GROUNDWATER FATE AND TRANSPORT MODELING

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE migration
steady state to POE

Data Input Instructions:
115 or 0.02 → 1. Enter value directly....or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	6.4	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	3.9E-05	*(cm/sec)*
Hydraulic Gradient	*i*	0.03	*(ft/ft)*
Porosity	*n*	0.188	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	6.5	*(ft)*
Transverse Dispersivity*	*alpha y*	0.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	90	*(ft)*

4 MW-11 4

3. ADSORPTION

Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.816	*(kg/l)*
Partition Coefficient	*Koc*	6	*(L/kg)*
FractionOrganicCarbon	*foc*	0.0119	*(-)*

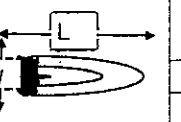
4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	2.8E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	2.50	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	0	*(mg/L)*
Delta Nitrate*	*NO3*	0	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0	*(mg/L)*
Delta Sulfate*	*SO4*	0	*(mg/L)*
Observed Methane*	*CH4*	0	*(mg/L)*

5. GENERAL

POE is 250'

Modeled Area Length*	250	*(ft)*
Modeled Area Width*	160	*(ft)*
Simulation Time*	52.0	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 *(ft)*

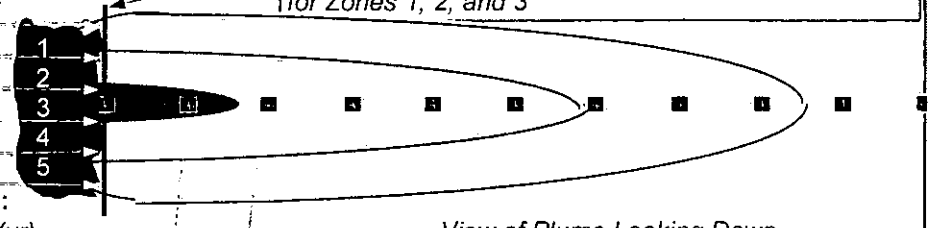
Source Zones:

Width* (ft)	Conc. (mg/L)*
0	0
20	3
40	5.49
20	3
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	25	50	75	100	125	150	175	200	225	250
Concentration (mg/L)											.04

Tier 1

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

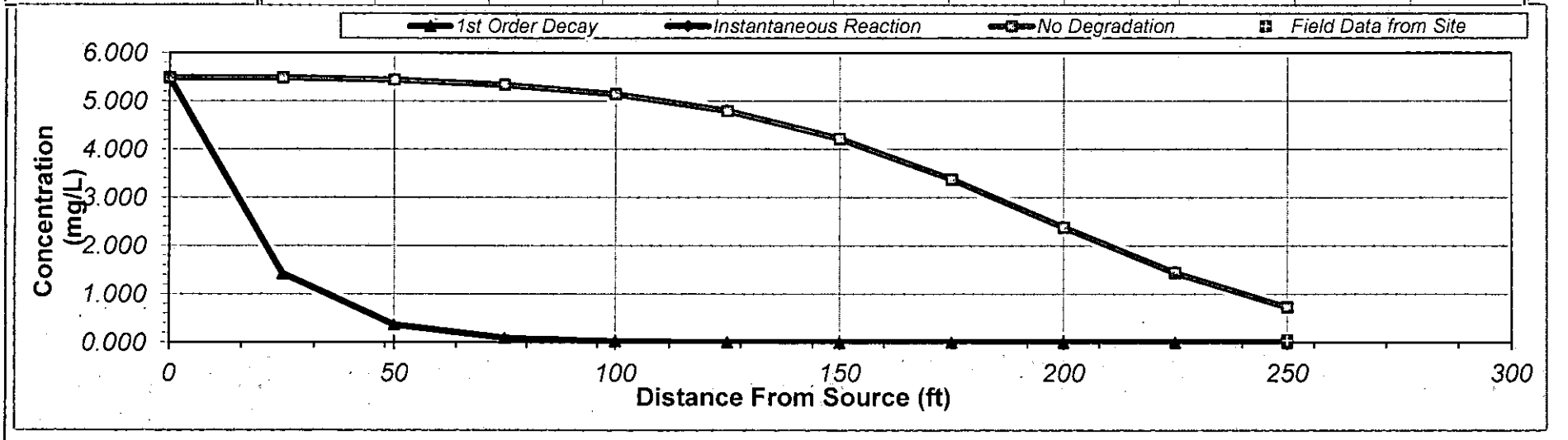
Help | Recalculate

Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	0	25	50	75	100	125	150	175	200	225	250
No Degradation	5.490	5.487	5.447	5.339	5.145	4.799	4.217	3.377	2.385	1.443	0.732
1st Order Decay	5.490	1.430	0.370	0.095	0.024	0.006	0.002	0.000	0.000	0.000	0.000
Inst. Reaction	5.490	5.487	5.447	5.339	5.145	4.799	4.217	3.377	2.385	1.443	0.732
Field Data from Site											0.040



Calculate

Time:
52.0 Years

Return to

Recalculate This

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

Speedway #3642
MTBE SSTL

Data Input Instructions:
115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	6.4	(ft/yr)
or		↑ or	
Hydraulic Conductivity	K	3.9E-05	(cm/sec)
Hydraulic Gradient	i	0.03	(ft/ft)
Porosity	n	0.188	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	6.5	(ft)
Transverse Dispersivity*	alpha y	0.7	(ft)
Vertical Dispersivity*	alpha z	0.0	(ft)
or		↑ or	
Estimated Plume Length	Lp	90	(ft)

3. ADSORPTION

Retardation Factor*	R	1.7	(-)
or		↑ or	
Soil Bulk Density	rho	1.816	(kg/l)
Partition Coefficient	Koc	6	(L/kg)
FractionOrganicCarbon	foc	0.0119	(-)

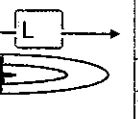
4. BIODEGRADATION

1st Order Decay Coeff*	lambda	2.8E-1	(per yr)
or		↑ or	
Solute Half-Life	t-half	2.50	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	0	(mg/L)
Delta Nitrate*	NO3	0	(mg/L)
Observed Ferrous Iron*	Fe2+	0	(mg/L)
Delta Sulfate*	SO4	0	(mg/L)
Observed Methane*	CH4	0	(mg/L)

5. GENERAL

POE is 250'

Modeled Area Length*	250	(ft)
Modeled Area Width*	160	(ft)
Simulation Time*	52.0	(yr)



6. SOURCE DATA

Source Thickness in Sat.Zone* 10.00 (ft)

Source Zones:

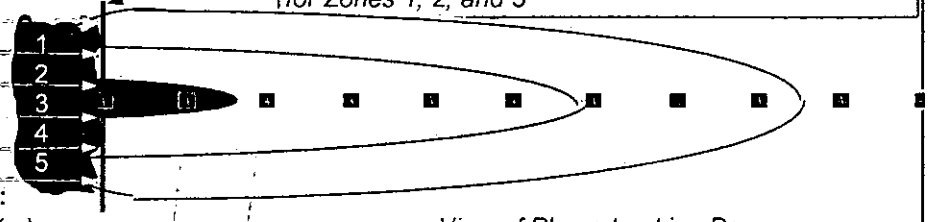
	Width* (ft)	Conc. (mg/L)*
1	0	0
2		
3	80	15
4	0	
5	0	0

SSTL

Source Halflife (see Help):

Infinite	Infinite	(yr)
Inst. React.	↑ 1st Order	
Soluble Mass In Source NAPL, Soil	Infinite	(Kg)

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
25	
50	
75	
100	
125	
150	
175	
200	
225	
250	.04

Tier 1

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN — **View Output**

RUN ARRAY — **View Output**

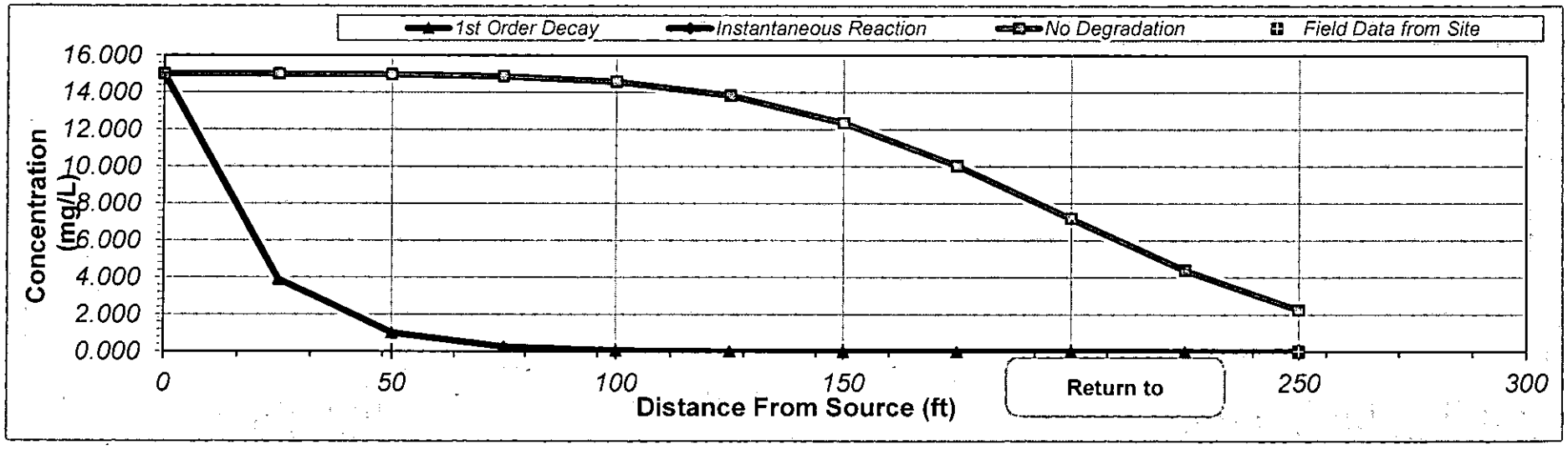
Help — Recalculate

Paste Example Dataset

Restore Formulas for Vs,

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

	Distance from Source (ft)										
TYPE OF MODEL	0	25	50	75	100	125	150	175	200	225	250
No Degradation	15.000	14.995	14.973	14.882	14.588	13.843	12.363	10.046	7.186	4.398	2.253
1st Order Decay	15.000	3.908605	1.018479	0.265374	0.069121	0.017987	0.004675	0.001213	0.000313	0.000080	0.000020
Inst. Reaction	15.000	14.995	14.973	14.882	14.588	13.843	12.363	10.046	7.186	4.398	2.253
Field Data from Site											0.040



Department of Commerce
Division of State Fire Marshal
John R. Kasich, Governor
Jacqueline T. Williams, Director

May 22, 2015

RYAN SABOL
ENVIRONMENTAL REP.
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OH 45501

SITE: SPEEDWAY #3642
1997 PETROLEUM RELEASE
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00002

RE: NO FURTHER ACTION STATUS REGARDING CORRECTIVE ACTION REQUIREMENTS

Dear Mr. Sabol:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this release. Based on the assumptions used in the tier evaluation report, BUSTR requires no further action (NFA) involving corrective action under Ohio Administrative Code (OAC) 1301:7-9-13, effective March 1999.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Scott R. Sigler
Corrective Action Supervisor

xc: Site File
Kimberly Kroenke - Cardno ATC
Donna Kestler - PUSTRCB

Release Report

Facility Name : **87000087 (SPEEDWAY #3642)**

Release Number : **N00002**

Person Reporting the Release

Name :
Company : SPEEDWAY\SUPERAMERICA LLC
Address : PO BOX 1500
City : SPRINGFIELD
Zip : 45501
State : Ohio
Phone : (937)864-3000
Remarks :

Release Location

Facility Name : 87000087 (SPEEDWAY #3642)
Facility Type : Gas Station
Address 1 : 939 DIXIE HWY
Address 2 :
City : ROSSFORD
State : Ohio
County : Wood
Zip : 43460
Facility Phone :
Is Facility Attended : Yes
Emergency Contact : Speedway Store Support
Emergency Phone : (800)255-6690

Longtitude :

Release Report

		-83.56241
Latitude	:	41.60508
Last Updated On	:	7/30/2014 12:40:17 PM
Class A Contact	:	TOBY RICKABAUGH
Is Contact Certified	:	Yes
Class B Contact	:	JOHN KOWALSKI
Is Contact Certified	:	Yes
Par	:	False
Duration	:	2

Release Information

RPT Date	:	11/19/1997			
CON Date	:				
Coordinator	:	Rick Krueger			
Priority	:	2			
LTF	:	1 SUS/CON from regulated UST	Due Date	:	
Rules	:	1999			
Status	:	NFA: No Further Action (55)	Date of Last Change	:	05/26/2015
Sub Status	:	Approved			
Class	:	D			
Ref Date	:				
Date of Last Review	:	05/26/2015			
Owner	:	ERIC SWAISGOOD			

Release Report

Conditions

Source : Closure

Contents : Gasoline

USEPA Leak Autopsy

Source :

Cause :

Release Contacts

S.No	Release Contact	Begin Date	End Date

There are no Consultants.

Site Information

Land Use : Non-Residential

GW Depth(ft) : 3-35

Bedrock Depth(ft) : unk

Sensitive Area : No

DWSPA : No

Drinking Water : Yes

Soil Class : Silty/clayey sands soil (Class 2)

Soil USCS : CL

GW Flow Direction : NE

Release Report

Priority Tracking System

Soil	:	1 < Als
Water	:	1 < Als
Free Product	:	0 None
Drinking H2O	:	4 Potential
Total Score	:	9
Impacts	:	3 Potential

Environmental Covenant

Recorded Date	:	
EC Terminated Date	:	
Reporting Date	:	
Restrictions	:	
Restrictions (Other)	:	

USEPA Reporting Requirements

		Current	Total			
Gal GW	:					
Gal Product	:	0.01	0			
Yds PCS	:					
Soil Contamination	:	Yes	Type of GW Impact	Drinking Water	:	No
GW Contamination	:	Yes		Drinking Water Municipal Well	:	No
Number of properties with an Alt DW Supply	:	0				
				Drinking Water Private Well	:	No

Release Report

Cleanup Technologies	:	Dual Phase (air and water) Extraction (DPE)
Soil Contaminant	:	Benzene; Toluene; Ethyl-benzene; Total Xylenes; MTBE; TPH
Soil Above Action Level	:	
GW Contaminant	:	Benzene; Toluene; Ethyl-benzene; Total Xylenes; MTBE
GW Above Action Level	:	

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

EXTENSION REQUEST FORM 2012

REQUEST DATE: September 29, 2020 FACILITY ID#: 87000087

OWNER/OPERATOR AND FACILITY DATA

FACILITY INFORMATION:

COMPANY:	Speedway #3642
ADDRESS:	939 Dixie Highway
CITY, ZIP:	Rossford, 43460
COUNTY:	Wood
RELEASE #:	87000087-N00006
LAT/LONG (decimal):	41.6053°N / 83.5625°W

RESPONSIBLE PARTY:

COMPANY:	Speedway LLC
ADDRESS:	P.O. Box 1500
CITY, STATE:	Springfield, Ohio
ZIP:	45501
CONTACT PERSON:	Michael Byrne
CONTACT PHONE #:	937-863-7667

REQUIREMENTS

What is required to be submitted to BUSTR? (List specific rule references)

Tier 1 Investigation pursuant to OAC 1301:7-9-13(I), CA Rule Set 2017

Describe the reason for the extension request:

The monitoring wells associated with the Tier 1 Investigation delineation were successfully installed on August 18, 2020. Based on the August 27, 2020 groundwater analytical results, the installation of additional monitoring wells are required to delineate concentrations identified in monitoring wells MW-15 and MW-16. As part of the installation, a right of way permit with the City of Rossford is required. Therefore, Speedway is respectfully requesting an extension of 180 days in order to obtain a right of way permit, implement the field work and prepare the Tier 1 Investigation Form. The report will be submitted to BUSTR on or before May 10, 2021.

Current deadline date: October 17, 2020 Proposed deadline date: April 15, 2021

What is the length of time being requested for the extension? 180 days

MISCELLANEOUS DATA

THE FOLLOWING ITEMS MUST BE ATTACHED:

ADDITIONAL INFORMATION WHICH IS REQUIRED BY OAC 1301:7-9-13 OR CLARIFIES THE EXTENSION REQUEST SHALL BE SUBMITTED AS APPENDICES TO THIS REPORT.

APPENDIX A FIGURES (Includes Topographic, Site, and Analytical Maps)
APPENDIX B BUSTR CORRESPONDENCE

PREPARED BY:

NAME:	Colin McNulty
COMPANY:	ATC Group Services LLC
STREET ADDRESS:	8100 Snowville Road
CITY, STATE, ZIP:	Brecksville, Ohio 44141
PHONE #:	440-262-1860
EMAIL:	colin.mcnulty@atcgs.com

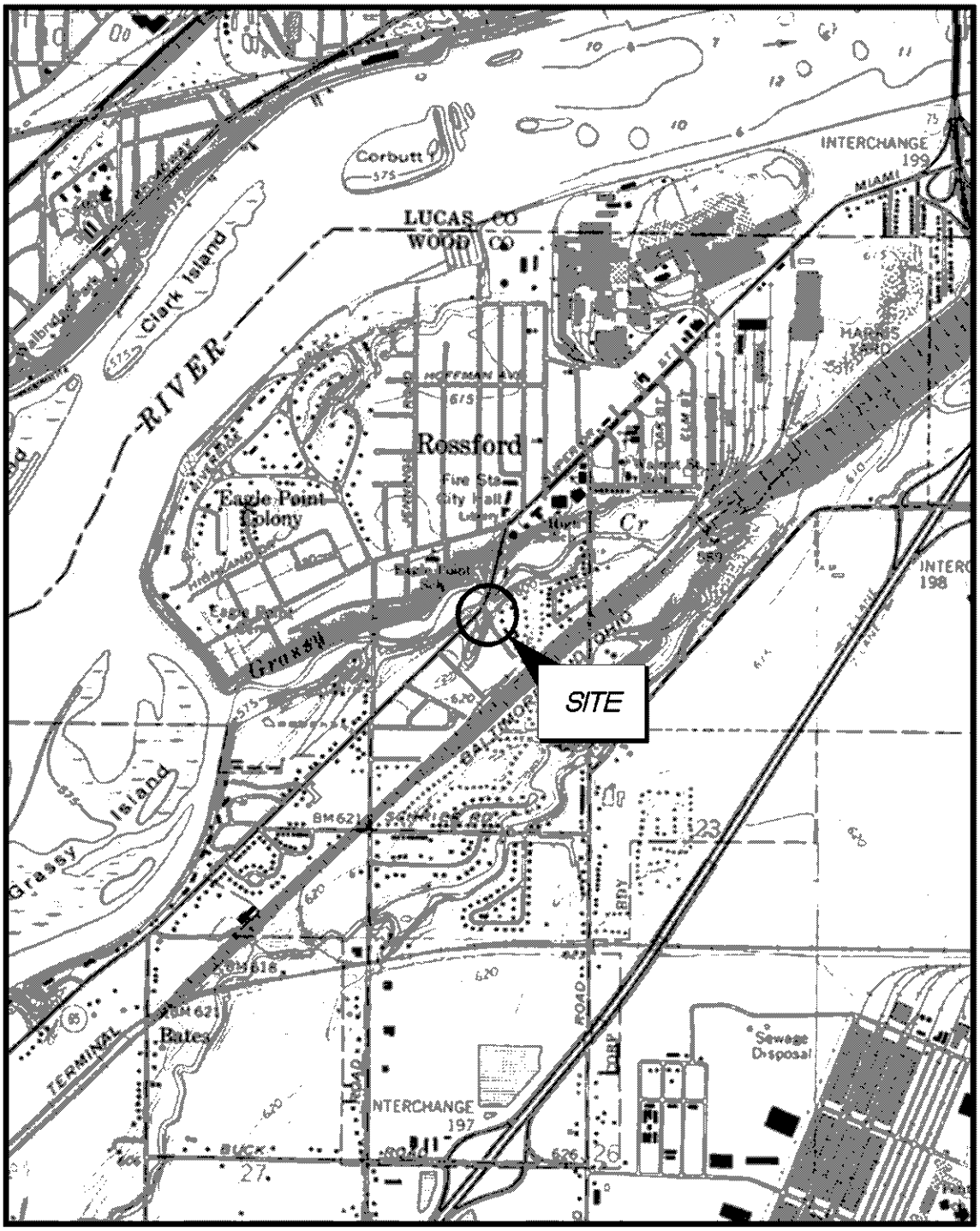
The Extension Request Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, legible, and complete.

OWNER / OPERATOR SIGNATURE: Michael Byrne

PRINT NAME: **Michael Byrne / Speedway LLC** **DATE:** **September 29, 2020**

APPENDIX A

FIGURES



LATITUDE: N 41° 38' 18.45"
LONGITUDE: W 83° 33' 44.38"
USGS 7.5-MINUTE TOPOGRAPHIC MAP; ROSSFORD, OH QUADRANGLE 2000: SCALE 1:24,000

TOPOGRAPHIC MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Project Number: 2401160314		Drn. By: DH
Drawing File: SEE LOWER LEFT		Ckd. By: BW
Date: 12/19	Scale: 1"= 2,000'	App'd By: -
ATC		Figure: 1

H:\2019\OTHER OFFICES\OHIO\SPEEDWAY LLC\SPEEDWAY #3642\2401160314-TOPO.DWG, FIG1

LEGEND:

- MW-12 — MONITORING WELL — Well Identification
- MW-1 — ABANDONED MONITORING WELL — Well Identification
- B-2 — SOIL BORING — Boring Identification
- TS-03 — EXCAVATION SOIL SAMPLE — Sample Identification
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- WATER
- PRODUCT PIPING
- OVERHEAD UTILITIES
- UNDERGROUND ELECTRICAL
- FORMER REMEDIATION TRENCH
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

NOTE: ALL LOCATIONS ARE APPROXIMATE

NORTH DIXIE HIGHWAY (STATE ROUTE 65)

ROSSWAY AVENUE

SPEEDWAY #3642

GRASS

CANOPY

SIGN

TRASH ENCLOSURE

FORMER USED OIL UST

8K GAL GASOLINE UST

6K GAL GASOLINE UST

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17

ES-1, ES-2

ST-1, ST-2

B-2, B3

L1, D3

TS-01, TS-02, TS-03, TS-04/(RS-01), TS-05/(RS-02), TS-06/(RS-03)

UST001

N

SCALE: 1" = 30'

Dm. By:	DH
Ckd. By:	BW
Appr'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 2

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-SITE.DWG, FIG2

MW-17			
Sample Date		8/18/2020	
Sample Depth (ft.)		2-4	4-6
B	mg/kg	<0.0033	<0 0032
T	mg/kg	<0.0037	<0.0037
E	mg/kg	<0.0042	<0.0041
X	mg/kg	<0.010	<0.010
N	mg/kg	<0.0049	<0 0049
124T	mg/kg	0.0034J	0.0042J
MTBE	mg/kg	<0.0050	<0.0049
EDB	mg/kg	<0.00042	<0.00042
EDC	mg/kg	<0.00049	<0.00048
TPH	mg/kg	5.5J	4.3J

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
- B-2 — SOIL BORING (Boring Identification)
- TS-03 — EXCAVATION SOIL SAMPLE (Sample Identification)
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- WATER
- PRODUCT PIPING
- OVERHEAD UTILITIES
- UNDERGROUND ELECTRICAL
- FORMER REMEDIATION TRENCH
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.437**
Toluene	T	**168**
Ethyl-benzene	E	**130**
Total Xylenes	X	**51.8**
Naphthalene	N	**1.12**
1,2,4-Trimethylbenzene	124T	**5.89**
Methyl tert butyl ether	MTBE	**2.67**
1,2-Dibromoethane (EDB)*	EDB	**0.00177**
1,2-Dichloroethane (EDC)	EDC	**0.177**
TPH (C6-C12)	TPH	**5,000**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/kg = MILLIGRAMS PER KILOGRAM

MW-15			
Sample Date		8/18/2020	
Sample Depth (ft.)		2-4	4-6
B	mg/kg	0.21	0.14
T	mg/kg	<0.0036	<0.017
E	mg/kg	<0.0041	0.54
X	mg/kg	<0.010	0.16J
N	mg/kg	<0.0049	**9.2**
124T	mg/kg	<0.0033	**23.9**
MTBE	mg/kg	<0.0049	0.031J
EDB	mg/kg	<0.00041	<0.022
EDC	mg/kg	<0.00048	<0.018
TPH	mg/kg	25.1	287

MW-12			
Sample Date		1/8/2020	
Sample Depth (ft.)		4-6	8-10
B	mg/kg	**2.1**	**2.6**
T	mg/kg	0.37J	<0.32
E	mg/kg	17.7	22.5
X	mg/kg	**71.6**	**53.9**
N	mg/kg	**18.2**	**13.2**
124T	mg/kg	**102**	**111**
MTBE	mg/kg	0.31J	<0.40
EDB	mg/kg	<0.26	<0.42
EDC	mg/kg	<0.21	<0.34
TPH	mg/kg	931	2,690

MW-16			
Sample Date		8/18/2020	
Sample Depth (ft.)		4-6	6-8
B	mg/kg	**0.73**	**1.9**
T	mg/kg	0.050J	0.19J
E	mg/kg	2.4	10.9
X	mg/kg	8.1	**54.0**
N	mg/kg	**3.6**	**11.0**
124T	mg/kg	**17.1**	**103**
MTBE	mg/kg	0.19	0.12J
EDB	mg/kg	<0.041	<0.10
EDC	mg/kg	<0.033	<0.085
TPH	mg/kg	366	364

MW-13			
Sample Date		1/8/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.0071J	0.0081J
T	mg/kg	<0.0037	<0.0036
E	mg/kg	<0.0041	<0.0040
X	mg/kg	0.030J	<0.010
N	mg/kg	<0.0049	<0.0047
124T	mg/kg	0.017	<0.0032
MTBE	mg/kg	0.0063J	0.0055J
EDB	mg/kg	<0.00042	<0.00040
EDC	mg/kg	<0.00048	<0.00047
TPH	mg/kg	19.0	<3.7

MW-14			
Sample Date		1/9/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.011J	0.0083J
T	mg/kg	<0.0038	<0.0040
E	mg/kg	<0.0043	<0.0045
X	mg/kg	<0.011	<0.011
N	mg/kg	<0.0050	<0.0054
124T	mg/kg	<0.0034	<0.0037
MTBE	mg/kg	<0.0051	0.0064J
EDB	mg/kg	<0.00043	<0 00046
EDC	mg/kg	<0.00050	<0 00053
TPH	mg/kg	<3.9	<4.1

N

30 0 10 20 30

SCALE: 1" = 30'

Drn. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP WITH SOIL BORING LOCATIONS, CONCENTRATIONS, AND SAMPLE DEPTH

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 3

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-SOIL.DWG, FIG3

MW-17		
Sample Date		8/27/2020
B	mg/L	<0.00025
T	mg/L	<0.00027
E	mg/L	<0.00032
X	mg/L	<0.0015
N	mg/L	<0.0012
124T	mg/L	<0.00084
MTBE	mg/L	<0.0012
EDB	mg/L	<0.0000049
EDC	mg/L	<0.00028

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
- B-2 — SOIL BORING (Boring Identification)
- TS-03 — EXCAVATION SOIL SAMPLE (Sample Identification)
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- WATER
- PRODUCT PIPING
- OVERHEAD UTILITIES
- UNDERGROUND ELECTRICAL
- FORMER REMEDIATION TRENCH
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.005**
Toluene	T	**1**
Ethyl-benzene	E	**0.7**
Total Xylenes	X	**10**
Naphthalene	N	**0.0014**
1,2,4-Trimethylbenzene	124T	**0.015**
Methyl tert butyl ether	MTBE	**0.120**
1,2-Dibromoethane	EDB	**0.00005**
1,2-Dichloroethane	EDC	**0.005**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/L = MILLIGRAMS PER LITER

MW-15		
Sample Date		8/27/2020
B	mg/L	**2.4**
T	mg/L	0.056
E	mg/L	**1.2**
X	mg/L	0.62
N	mg/L	**0.83**
124T	mg/L	**1.8**
MTBE	mg/L	**3.8**
EDB	mg/L	<0.0000048
EDC	mg/L	<0.014

MW-12			
Sample Date		1/22/2020	8/27/2020
B	mg/L	**1.8**	**4.3**
T	mg/L	0.026J	0.10
E	mg/L	0.055	**0.96**
X	mg/L	1.7	3.8
N	mg/L	**0.11**	**0.31J**
124T	mg/L	**0.69**	**1.4**
MTBE	mg/L	**2.3**	**3.5**
EDB	mg/L	<0.0000053	<0.0000049
EDC	mg/L	<0 0056	<0 028

MW-16		
Sample Date		8/27/2020
B	mg/L	**5.4**
T	mg/L	0.081J
E	mg/L	0.46
X	mg/L	7.5
N	mg/L	**0.33J**
124T	mg/L	**3.5**
MTBE	mg/L	**2.2**
EDB	mg/L	<0.0000049
EDC	mg/L	<0.028

MW-13			
Sample Date		1/22/2020	8/27/2020
B	mg/L	0.0015	0.0040
T	mg/L	0.00029J	<0.00027
E	mg/L	0.00033J	<0.00032
X	mg/L	<0.0015	<0.0015
N	mg/L	<0.0012	<0.0012
124T	mg/L	<0.00084	<0.00084
MTBE	mg/L	0.037	0.062
EDB	mg/L	<0.0000053	<0.0000045
EDC	mg/L	<0.00028	<0.00028

MW-14			
Sample Date		1/22/2020	8/27/2020
B	mg/L	<0.00025	<0.00025
T	mg/L	<0.00017	<0.00027
E	mg/L	<0.00022	<0.00032
X	mg/L	<0.0015	<0.0015
N	mg/L	<0.0012	<0.0012
124T	mg/L	<0.00084	<0.00084
MTBE	mg/L	<0.0012	<0.0012
EDB	mg/L	<0.0000053	<0.0000049
EDC	mg/L	<0.00028	<0.00028

NORTH DIXIE HIGHWAY (STATE ROUTE 65)
ROSSWAY AVENUE
SPEEDWAY #3642
CANOPY
SIGN
GRASS
FORMER USED OIL UST
UST001
TRASH ENCLOSURE
6K GAL GASOLINE UST
8K GAL GASOLINE UST

N

30 0 10 20 30
SCALE: 1" = 30'

Dm. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP WITH MONITORING WELLS AND GROUNDWATER CONCENTRATIONS

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 4

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-GW.DWG, FIG4

APPENDIX B

BUSTR CORRESPONDENCE

Ohio | Department of Commerce
Division of State Fire Marshal
Mike DeWine, Governor
Jon Husted, Lt. Governor
Sheryl Maxfield, Director

April 17, 2020

MIKE BYRNE
SPEEDWAY LLC
P.O. BOX 1500
SPRINGFIELD, OHIO 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00006

RE: TIER 1 DELINEATION REQUIRED

Dear Mr. Byrne:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled Tier 1 Notification dated April 16, 2020. BUSTR has determined that soil and groundwater contamination exists in excess of the action levels applicable to this site. You are required to perform a Tier 1 Delineation as prescribed in Ohio Administrative Code 1301:7-9-13(I), effective September 1, 2017, and explained in BUSTR's Technical Guidance Manual (2017). These documents describe the activities that must be performed during the Tier 1 Delineation and the information that is to be submitted to BUSTR. You must submit the Tier 1 Investigation Report on or before October 17, 2020.

The purpose of the Tier 1 Delineation is to define the vertical and horizontal extent of chemical(s) of concern in soil and groundwater to the Delineation Levels referenced in OAC 1301:7-9-13(J)(1) and to determine the potential drinking water use at the site.

You may be also eligible to receive reimbursement for the costs of corrective action from the Petroleum Underground Storage Tank Release Compensation Board. Please contact that office at 614-752-8963 for more information.

Information that may help you understand the requirements of BUSTR's rules may be found on BUSTR'S Resource Page at http://www.com.ohio.gov/fire/BUSTRResources.aspx or by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Tanya Nell
Environmental Specialist

xc: Site File
Bethany Weeder - ATC

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

EXTENSION REQUEST FORM 2017

REQUEST DATE: August 6, 2021 FACILITY ID#: 87000087

OWNER/OPERATOR AND FACILITY DATA

FACILITY INFORMATION:

COMPANY:	Speedway #3642
ADDRESS:	939 Dixie Highway
CITY, ZIP:	Rossford, 43460
COUNTY:	Wood
RELEASE #:	87000087-N00006
LAT/LONG (decimal):	41.6053/-83.5625

RESPONSIBLE PARTY:

COMPANY:	Speedway LLC
ADDRESS:	P.O. Box 1500
CITY, STATE:	Springfield, OH
ZIP:	45501
CONTACT PERSON:	Michael Byrne
CONTACT PHONE #:	937-863-7667

REQUIREMENTS

What is required to be submitted to BUSTR? (List specific rule references)

Tier 1 Investigation pursuant to OAC 1301:7-9-13(I), CA Rule Set 2017

Provide the reasoning for the additional time requested (e.g. off-site access, scheduling, etc.):

Based on the August 27, 2020 groundwater analytical results, the installation of additional monitoring wells is required to delineate chemical of concern concentrations identified in monitoring wells MW-15 and MW-16. Offsite access is required to delineate. Speedway is respectfully requesting an extension of 180 days in order to obtain offsite access, implement the field work and prepare the Tier 1 Investigation Form. The report will be submitted to BUSTR on or before February 9, 2022.

Current deadline date: August 13, 2021 Proposed deadline date: February 9, 2022

What is the length of time being requested for the extension? 180 days

MISCELLANEOUS DATA

THE FOLLOWING ITEMS MUST BE ATTACHED:

ADDITIONAL INFORMATION WHICH IS REQUIRED BY OAC 1301:7-9-13 OR CLARIFIES THE EXTENSION REQUEST SHALL BE SUBMITTED AS APPENDICES TO THIS REPORT.

FIGURES: SITE MAP - Include all site features and indicate access status (granted, denied, in process) for applicable surrounding properties.

APPENDIX A: MISCELLANEOUS DATA - Additional information in support of the extension request

PREPARED BY:

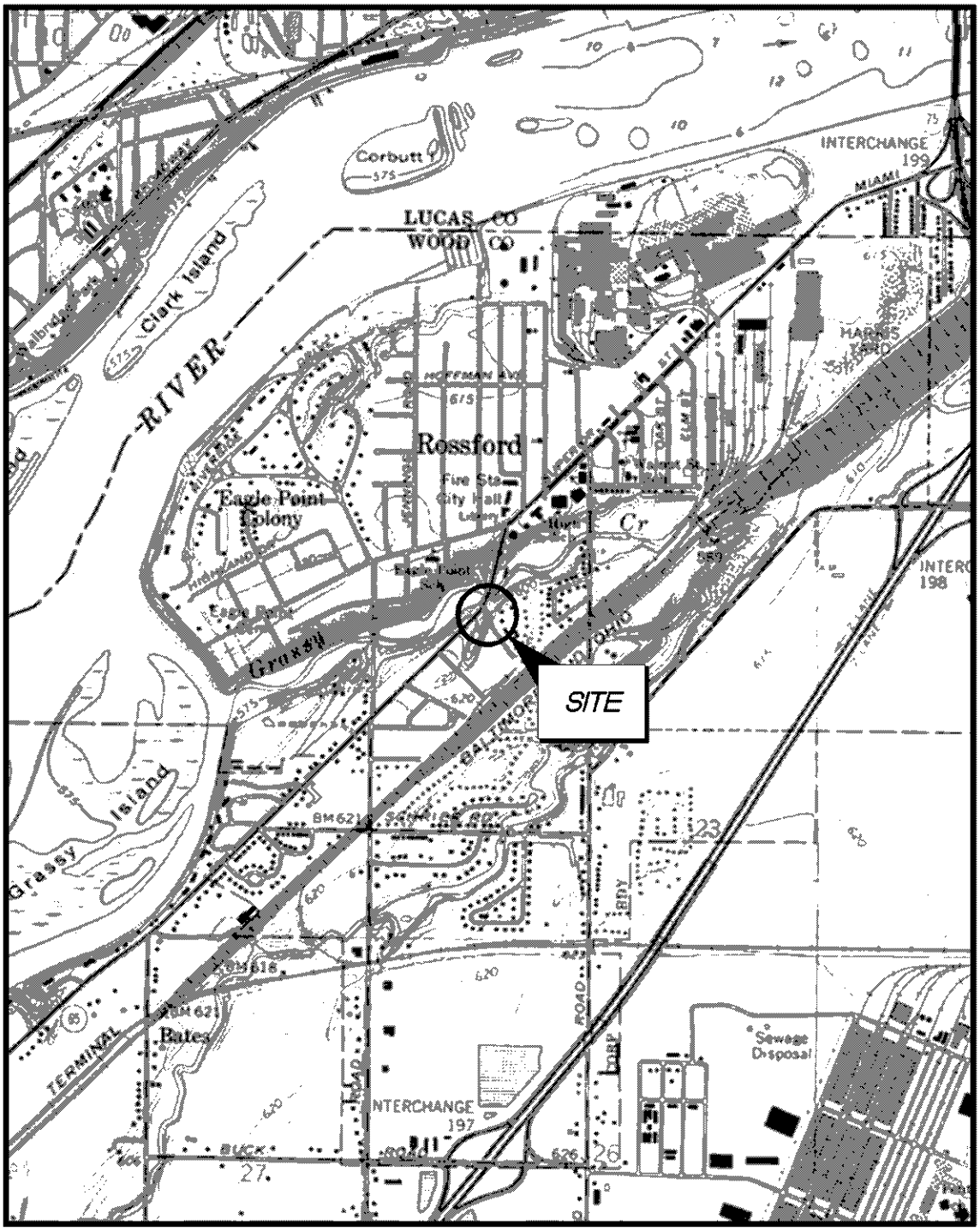
NAME:	Jennifer Sisson
COMPANY:	ATC Group Services LLC (ATC), doing business as Atlas Technical (Atlas)
STREET ADDRESS:	8100 Snowville Road
CITY, STATE, ZIP:	Brecksville, OH 44141
PHONE #:	440.262.1860
EMAIL:	Jennifer.sisson@oneatlas.com

The Extension Request Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, legible, and complete.

OWNER / OPERATOR SIGNATURE: Michael Byrne

PRINT NAME: Michael Byrne, Speedway LLC **DATE:** 8/6/2021

FIGURES



LATITUDE: N 41° 38' 18.45"
LONGITUDE: W 83° 33' 44.38"
USGS 7.5-MINUTE TOPOGRAPHIC MAP; ROSSFORD, OH QUADRANGLE 2000: SCALE 1:24,000

TOPOGRAPHIC MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Project Number: 2401160314		Drn. By: DH
Drawing File: SEE LOWER LEFT		Ckd. By: BW
Date: 12/19	Scale: 1"= 2,000'	App'd By: -
ATC		Figure: 1

H:\2019\OTHER OFFICES\OHIO\SPEEDWAY LLC\SPEEDWAY #3642\2401160314-TOPO.DWG, FIG1

LEGEND:

- MW-12 — MONITORING WELL — Well Identification
- MW-1 — ABANDONED MONITORING WELL — Well Identification
- B-2 — SOIL BORING — Boring Identification
- TS-03 — EXCAVATION SOIL SAMPLE — Sample Identification
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- WATER
- PRODUCT PIPING
- OVERHEAD UTILITIES
- UNDERGROUND ELECTRICAL
- FORMER REMEDIATION TRENCH
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

NOTE: ALL LOCATIONS ARE APPROXIMATE

NORTH DIXIE HIGHWAY (STATE ROUTE 65)

ROSSWAY AVENUE

SPEEDWAY #3642

GRASS

CANOPY

SIGN

TRASH ENCLOSURE

FORMER USED OIL UST

8K GAL GASOLINE UST

6K GAL GASOLINE UST

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17

ES-1, ES-2

ST-1, ST-2

B-2, B3

L1, D3

TS-01, TS-02, TS-03, TS-04/(RS-01), TS-05/(RS-02), TS-06/(RS-03)

UST001

N

SCALE: 1" = 30'

Dm. By:	DH
Ckd. By:	BW
Appr'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 2

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-SITE.DWG, FIG2

MW-17			
Sample Date		8/18/2020	
Sample Depth (ft.)		2-4	4-6
B	mg/kg	<0.0033	<0 0032
T	mg/kg	<0.0037	<0.0037
E	mg/kg	<0.0042	<0.0041
X	mg/kg	<0.010	<0.010
N	mg/kg	<0.0049	<0 0049
124T	mg/kg	0.0034J	0.0042J
MTBE	mg/kg	<0.0050	<0.0049
EDB	mg/kg	<0.00042	<0.00042
EDC	mg/kg	<0.00049	<0.00048
TPH	mg/kg	5.5J	4.3J

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
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- OVERHEAD UTILITIES
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- FORMER REMEDIATION TRENCH
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.437**
Toluene	T	**168**
Ethyl-benzene	E	**130**
Total Xylenes	X	**51.8**
Naphthalene	N	**1.12**
1,2,4-Trimethylbenzene	124T	**5.89**
Methyl tert butyl ether	MTBE	**2.67**
1,2-Dibromoethane (EDB)*	EDB	**0.00177**
1,2-Dichloroethane (EDC)	EDC	**0.177**
TPH (C6-C12)	TPH	**5,000**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/kg = MILLIGRAMS PER KILOGRAM

MW-15			
Sample Date		8/18/2020	
Sample Depth (ft.)		2-4	4-6
B	mg/kg	0.21	0.14
T	mg/kg	<0.0036	<0.017
E	mg/kg	<0.0041	0.54
X	mg/kg	<0.010	0.16J
N	mg/kg	<0.0049	**9.2**
124T	mg/kg	<0.0033	**23.9**
MTBE	mg/kg	<0.0049	0.031J
EDB	mg/kg	<0.00041	<0.022
EDC	mg/kg	<0.00048	<0.018
TPH	mg/kg	25.1	287

MW-12			
Sample Date		1/8/2020	
Sample Depth (ft.)		4-6	8-10
B	mg/kg	**2.1**	**2.6**
T	mg/kg	0.37J	<0.32
E	mg/kg	17.7	22.5
X	mg/kg	**71.6**	**53.9**
N	mg/kg	**18.2**	**13.2**
124T	mg/kg	**102**	**111**
MTBE	mg/kg	0.31J	<0.40
EDB	mg/kg	<0.26	<0.42
EDC	mg/kg	<0.21	<0.34
TPH	mg/kg	931	2,690

MW-16			
Sample Date		8/18/2020	
Sample Depth (ft.)		4-6	6-8
B	mg/kg	**0.73**	**1.9**
T	mg/kg	0.050J	0.19J
E	mg/kg	2.4	10.9
X	mg/kg	8.1	**54.0**
N	mg/kg	**3.6**	**11.0**
124T	mg/kg	**17.1**	**103**
MTBE	mg/kg	0.19	0.12J
EDB	mg/kg	<0.041	<0.10
EDC	mg/kg	<0.033	<0.085
TPH	mg/kg	366	364

MW-13			
Sample Date		1/8/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.0071J	0.0081J
T	mg/kg	<0.0037	<0.0036
E	mg/kg	<0.0041	<0.0040
X	mg/kg	0.030J	<0.010
N	mg/kg	<0.0049	<0.0047
124T	mg/kg	0.017	<0.0032
MTBE	mg/kg	0.0063J	0.0055J
EDB	mg/kg	<0.00042	<0.00040
EDC	mg/kg	<0.00048	<0.00047
TPH	mg/kg	19.0	<3.7

MW-14			
Sample Date		1/9/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.011J	0.0083J
T	mg/kg	<0.0038	<0.0040
E	mg/kg	<0.0043	<0.0045
X	mg/kg	<0.011	<0.011
N	mg/kg	<0.0050	<0.0054
124T	mg/kg	<0.0034	<0.0037
MTBE	mg/kg	<0.0051	0.0064J
EDB	mg/kg	<0.00043	<0 00046
EDC	mg/kg	<0.00050	<0 00053
TPH	mg/kg	<3.9	<4.1

N

30 0 10 20 30

SCALE: 1" = 30'

Drn. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP WITH SOIL BORING LOCATIONS, CONCENTRATIONS, AND SAMPLE DEPTH

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 3

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-SOIL.DWG, FIG3

MW-17		
Sample Date		8/27/2020
B	mg/L	<0.00025
T	mg/L	<0.00027
E	mg/L	<0.00032
X	mg/L	<0.0015
N	mg/L	<0.0012
124T	mg/L	<0.00084
MTBE	mg/L	<0.0012
EDB	mg/L	<0.0000049
EDC	mg/L	<0.00028

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
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- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AIR COMPRESSOR
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.005**
Toluene	T	**1**
Ethyl-benzene	E	**0.7**
Total Xylenes	X	**10**
Naphthalene	N	**0.0014**
1,2,4-Trimethylbenzene	124T	**0.015**
Methyl tert butyl ether	MTBE	**0.120**
1,2-Dibromoethane	EDB	**0.00005**
1,2-Dichloroethane	EDC	**0.005**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/L = MILLIGRAMS PER LITER

MW-15		
Sample Date		8/27/2020
B	mg/L	**2.4**
T	mg/L	0.056
E	mg/L	**1.2**
X	mg/L	0.62
N	mg/L	**0.83**
124T	mg/L	**1.8**
MTBE	mg/L	**3.8**
EDB	mg/L	<0.0000048
EDC	mg/L	<0.014

MW-12			
Sample Date		1/22/2020	8/27/2020
B	mg/L	**1.8**	**4.3**
T	mg/L	0.026J	0.10
E	mg/L	0.055	**0.96**
X	mg/L	1.7	3.8
N	mg/L	**0.11**	**0.31J**
124T	mg/L	**0.69**	**1.4**
MTBE	mg/L	**2.3**	**3.5**
EDB	mg/L	<0.0000053	<0.0000049
EDC	mg/L	<0 0056	<0 028

MW-16		
Sample Date		8/27/2020
B	mg/L	**5.4**
T	mg/L	0.081J
E	mg/L	0.46
X	mg/L	7.5
N	mg/L	**0.33J**
124T	mg/L	**3.5**
MTBE	mg/L	**2.2**
EDB	mg/L	<0.0000049
EDC	mg/L	<0.028

MW-13			
Sample Date		1/22/2020	8/27/2020
B	mg/L	0.0015	0.0040
T	mg/L	0.00029J	<0.00027
E	mg/L	0.00033J	<0.00032
X	mg/L	<0.0015	<0.0015
N	mg/L	<0.0012	<0.0012
124T	mg/L	<0.00084	<0.00084
MTBE	mg/L	0.037	0.062
EDB	mg/L	<0.0000053	<0.0000045
EDC	mg/L	<0.00028	<0.00028

MW-14			
Sample Date		1/22/2020	8/27/2020
B	mg/L	<0.00025	<0.00025
T	mg/L	<0.00017	<0.00027
E	mg/L	<0.00022	<0.00032
X	mg/L	<0.0015	<0.0015
N	mg/L	<0.0012	<0.0012
124T	mg/L	<0.00084	<0.00084
MTBE	mg/L	<0.0012	<0.0012
EDB	mg/L	<0.0000053	<0.0000049
EDC	mg/L	<0.00028	<0.00028

NORTH DIXIE HIGHWAY (STATE ROUTE 65)
ROSSWAY AVENUE
SPEEDWAY #3642
CANOPY
SIGN
GRASS
FORMER USED OIL UST
UST001
TRASH ENCLOSURE
6K GAL GASOLINE UST
8K GAL GASOLINE UST

N

30 0 10 20 30
SCALE: 1" = 30'

Dm. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

SITE MAP WITH MONITORING WELLS AND GROUNDWATER CONCENTRATIONS

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 4

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-GW.DWG, FIG4

APPENDIX A

BUSTR CORRESPONDENCE

Ohio | Department of Commerce
Division of State Fire Marshal
Mike DeWine, Governor
Jon Husted, Lt. Governor
Sheryl Maxfield, Director

April 17, 2020

MIKE BYRNE
SPEEDWAY LLC
P.O. BOX 1500
SPRINGFIELD, OHIO 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00006

RE: TIER 1 DELINEATION REQUIRED

Dear Mr. Byrne:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled Tier 1 Notification dated April 16, 2020. BUSTR has determined that soil and groundwater contamination exists in excess of the action levels applicable to this site. You are required to perform a Tier 1 Delineation as prescribed in Ohio Administrative Code 1301:7-9-13(I), effective September 1, 2017, and explained in BUSTR's Technical Guidance Manual (2017). These documents describe the activities that must be performed during the Tier 1 Delineation and the information that is to be submitted to BUSTR. You must submit the Tier 1 Investigation Report on or before October 17, 2020.

The purpose of the Tier 1 Delineation is to define the vertical and horizontal extent of chemical(s) of concern in soil and groundwater to the Delineation Levels referenced in OAC 1301:7-9-13(J)(1) and to determine the potential drinking water use at the site.

You may be also eligible to receive reimbursement for the costs of corrective action from the Petroleum Underground Storage Tank Release Compensation Board. Please contact that office at 614-752-8963 for more information.

Information that may help you understand the requirements of BUSTR's rules may be found on BUSTR'S Resource Page at http://www.com.ohio.gov/fire/BUSTRResources.aspx or by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Tanya Nell
Environmental Specialist

xc: Site File
Bethany Weeder - ATC

Ohio | Department of Commerce
Division of State Fire Marshal

Extension Request Form 2017

Report Date: January 19, 2022 Facility ID – Release No.: 87000087-N00006

Responsible Party And Facility Data

Responsible Party Information:		Facility Information:	
Company:	Speedway LLC	Company:	Speedway #3642
Address:	P.O. Box 1500	Address:	939 Dixie Highway
City, State:	Springfield, OH	City, Zip:	Rossford
Zip:	45501	County:	Wood
Contact Person:	Michael Byrne	Latitude (decimal):	41.60508
Contact Phone:	937.863.7667	Longitude (dec):	-83.56241
Email:	mbyrne@speedway.com	Fire Department:	Rossford Fire Dept.

Requirements

What is required to be submitted to BUSTR? (List specific rule references)

Tier 1 Investigation pursuant to OAC 1301:7-9-13(I), CA Rule Set 2017

Provide the reasoning for the additional time requested (e.g. off-site access, scheduling, etc.):

Speedway is respectfully requesting additional time to allow for Speedway Legal and Dollar General Legal to work on access. The adjacent property owners are not responsive to mailings, phone calls or site visits. Alternatively, Speedway is working on a right of way (ROW) permit to install soil borings in the City ROW. Speedway will prepare and submit the appropriate Site Check form on or before June 9, 2022.

Current deadline date: February 9, 2022 Proposed deadline date: June 9, 2022

What is the length of time being requested for the extension? ~120 days

Miscellaneous Data

Figures: Site Map - Include all site features and indicate access status (granted, denied, in process) for applicable surrounding properties.

Appendix A: Miscellaneous Data - Additional information in support of the extension request

PREPARED BY:

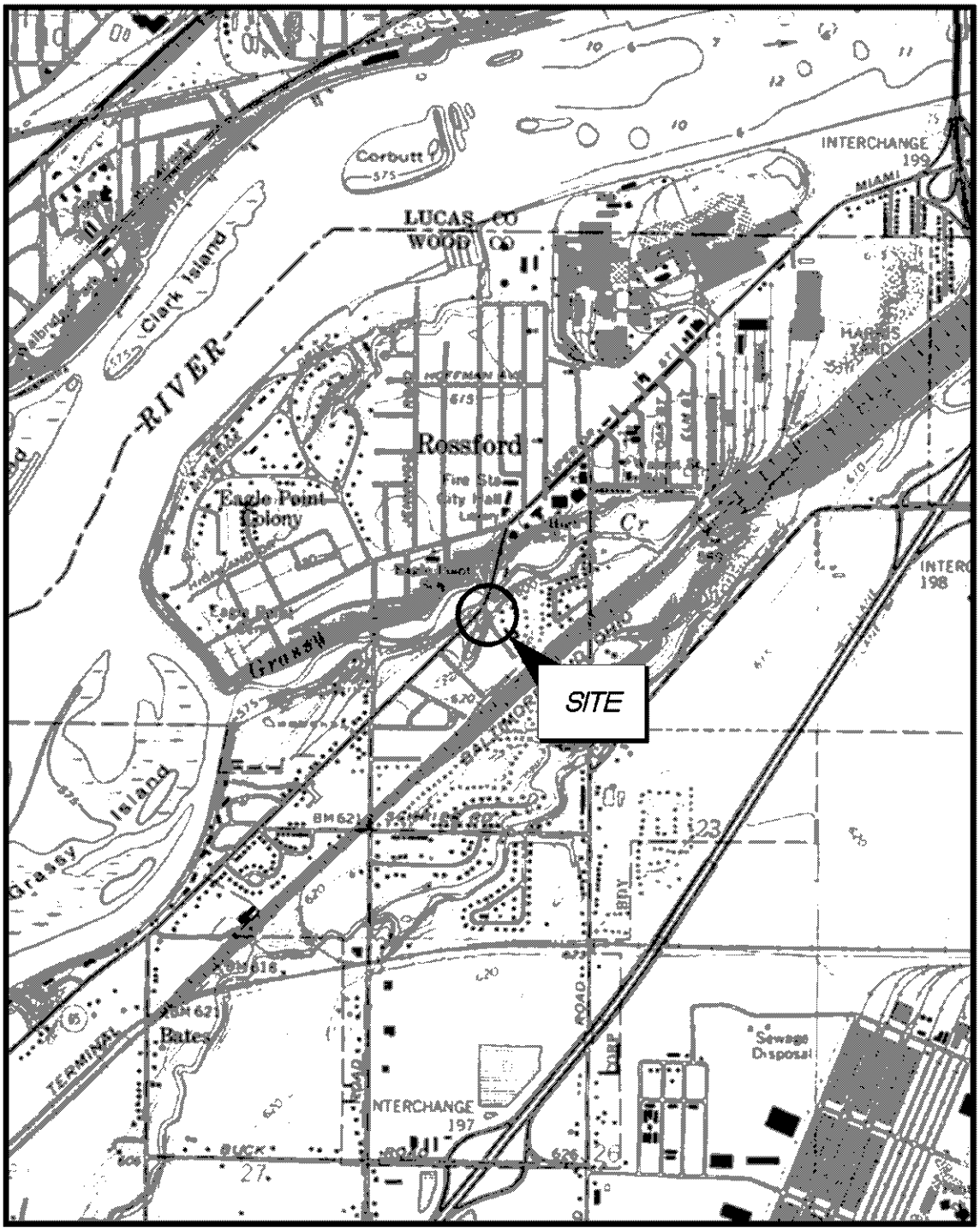
Name:	Jennifer Sisson		
Company:	Atlas Technical		
Address, City, State, Zip:	8100 Snowville Road, Brecksville OH 44141		
Phone #:	440.838.7177	Email:	Jennifer.sisson@oneatlas.com

The Extension Request Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, legible, and complete.

OWNER / OPERATOR SIGNATURE: Michael Byrne

PRINT NAME: **Michael Byrne, Speedway LLC** **DATE:** **1-18-22**

FIGURES



LATITUDE: N 41° 38' 18.45"
LONGITUDE: W 83° 33' 44.38"
USGS 7.5-MINUTE TOPOGRAPHIC MAP; ROSSFORD, OH QUADRANGLE 2000: SCALE 1:24,000

TOPOGRAPHIC MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Project Number: 2401160314		Drn. By: DH
Drawing File: SEE LOWER LEFT		Ckd. By: BW
Date: 12/19	Scale: 1"= 2,000'	App'd By: -
ATLAS		Figure: 1

H:\2019\OTHER OFFICES\OHIO\SPEEDWAY LLC\SPEEDWAY #3642\2401160314-TOPO.DWG, FIG1

LEGEND:

- MW-12 — MONITORING WELL — Well Identification
- MW-1 — ABANDONED MONITORING WELL — Well Identification
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- AIR COMPRESSOR
- AREA OF EXCAVATION

NOTE: ALL LOCATIONS ARE APPROXIMATE

NORTH DIXIE HIGHWAY (STATE ROUTE 65)

ROSSWAY AVENUE

SPEEDWAY #3642

CANOPY

SIGN

GRASS

GRASS

FORMER USED OIL UST

UST001

TRASH ENCLOSURE

6K GAL GASOLINE UST

6K GAL GASOLINE UST

8K GAL GASOLINE UST

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13 MW-14 MW-15 MW-16 MW-17

ES-1 ES-2

TS-01 TS-02 TS-03 TS-04/(RS-01) TS-05/(RS-02) TS-06/(RS-03)

B-2 B3

L1 D3

N

30 0 10 20 30

SCALE: 1" = 30'

Dm. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160345
Drawing File:	SEE LOWER LEFT

ATLAS

SITE MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 9/20
Scale: AS SHOWN
Figure: 2

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160345-SITE.DWG, FIG2

APPENDIX A

BUSTR LETTER

Ohio | Department of Commerce
Division of State Fire Marshal
Mike DeWine, Governor
Jon Husted, Lt. Governor
Sheryl Maxfield, Director

April 17, 2020

MIKE BYRNE
SPEEDWAY LLC
P.O. BOX 1500
SPRINGFIELD, OHIO 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00006

RE: TIER 1 DELINEATION REQUIRED

Dear Mr. Byrne:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled Tier 1 Notification dated April 16, 2020. BUSTR has determined that soil and groundwater contamination exists in excess of the action levels applicable to this site. You are required to perform a Tier 1 Delineation as prescribed in Ohio Administrative Code 1301:7-9-13(I), effective September 1, 2017, and explained in BUSTR's Technical Guidance Manual (2017). These documents describe the activities that must be performed during the Tier 1 Delineation and the information that is to be submitted to BUSTR. You must submit the Tier 1 Investigation Report on or before October 17, 2020.

The purpose of the Tier 1 Delineation is to define the vertical and horizontal extent of chemical(s) of concern in soil and groundwater to the Delineation Levels referenced in OAC 1301:7-9-13(J)(1) and to determine the potential drinking water use at the site.

You may be also eligible to receive reimbursement for the costs of corrective action from the Petroleum Underground Storage Tank Release Compensation Board. Please contact that office at 614-752-8963 for more information.

Information that may help you understand the requirements of BUSTR's rules may be found on BUSTR'S Resource Page at http://www.com.ohio.gov/fire/BUSTRResources.aspx or by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614) 728-5120.

Sincerely,

Tanya Nell
Environmental Specialist

xc: Site File
Bethany Weeder - ATC

From: Mertz, Ralph
To: Siemen, Jason (Speedway)
Cc: Bethany Weeder; "Susan Sprouse"
Subject: RE: 87000087 Speedway 3642 Extension Request
Date: Tuesday, May 24, 2022 3:44:00 PM
Attachments: Extension_Request_87000087_ERO0043_05242022_034003_done.pdf
image003.png
image004.png
image005.png

Please see the attached extension approval.

Sincerely, Ralph

Ohio Department of Commerce

Ralph Mertz
Corrective Action Supervisor
Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
8895 East Main Street, Reynoldsburg, Ohio 43068
Desk: 614-752-7097
ralph.mertz@com.state.oh.us
com.ohio.gov

coronavirus.ohio.gov
Thanks for your patience while our staff works remotely to stop the community spread of COVID-19.
This message and any response to it may constitute a public record and thus may be publicly available to anyone who requests it.

Please consider the environment before printing this e-mail
This message and any response to it may constitute a public record and thus may be publicly available to anyone who requests it.

From: Susan Sprouse <susan.sprouse@oneatlas.com>
Sent: Tuesday, May 24, 2022 11:26 AM
To: Mertz, Ralph <ralph.mertz@com.ohio.gov>
Cc: Sigler, Scott <Scott.Sigler@com.ohio.gov>; Bethany Weeder <bethany.weeder@oneatlas.com>
Subject: 87000087 Speedway 3642 Extension Request

Good Morning

Please accept this email as a formal submittal of an Extension Request for Speedway 3642, Rossford.

A hard copy will be forwarded to BUSTR's office for your records.

Thank you

Sue Sprouse
Project Manager Assistant

ATLAS

8100 Snowville Road
Brecksville, Ohio 44141
O: 440-838-7177 | **C:** 440-281-2569
OneAtlas.com | LinkedIn | Facebook | Twitter

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ENR #8 Top Environmental Management Firm
ENR #44 Top Program Management Firm

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Ohio | Department of Commerce
Division of State Fire Marshal
Mike DeWine, Governor
Jon Husted, Lt. Governor
Sheryl Maxfield, Director

May 24, 2022

JASON SIEMEN
SPEEDWAY LLC
PO BOX 1500
SPRINGFIELD, OHIO 45501

SITE: SPEEDWAY #3642
939 DIXIE HWY
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00006

RE: EXTENSION REQUEST

Dear Jason Siemen:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your extension request dated May 24, 2022.

BUSTR hereby approves your extension request. The new compliance date for submitting your Tier 1 Investigation report is October 07, 2022. Extensions must be approved in writing by BUSTR on a site-by-site basis. A copy of this letter is to be included with applicable reports.

Nothing in this letter shall be construed as waiving or compromising in any way the applicability of enforcement of any other statutes or regulations applicable to ownership or operation of the UST facility. In addition, nothing contained herein shall be construed to prevent the State Fire Marshal from exercising its lawful authority to require any responsible parties to perform activities pursuant to Ohio Revised Code §3737 or any other applicable law in the future. The State Fire Marshal reserves all rights and privileges. If an enforcement action is brought, pursuant to Ohio Revised Code §3737.882, the State Fire Marshal is vested with the authority to issue citations and orders, assess civil penalties (of up to $10,000 per day per violation), or to request the Attorney General to bring a civil action against any responsible party that is found to be in violation with the rules adopted by the State Fire Marshal.

Information that may help you understand the requirements of BUSTR's rules may be found on BUSTR'S Resource Page at http://www.com.ohio.gov/fire/BUSTRResources.aspx or by calling our office.

Thank you for your cooperation. If you have any questions, please contact me at (614)752-7097.

Sincerely,

Ralph V. Mertz III

Ralph V. Mertz, III
Environmental Specialist

xc: Site File
Susan Sprouse, Atlas (email)

—AN ATLAS COMPANY—

Engineering, Environmental, Geotechnical and Materials Professionals
8100 Snowville Road
Brecksville, Ohio 44141-3219
Voice: (440) 838-7177
FAX (440) 838-7181

LETTER OF TRANSMITTAL

From: ATC Group Services LLC

To:	Bureau of Underground Storage Tank Regulations 8895 East Main Street Reynoldsburg, Ohio 43068
Attn:	Ms. Tanya Nell
Date:	April 16, 2020
BUSTR Release #:	87000087-N00006

The following items are included in this transmittal:

Site Name	DATE	DESCRIPTION
Speedway #3642	04/16/2020	Tier 1 Notification Report and associated appendices
		FedEx Express Saver –

Comments:

ATC

—AN ATLAS COMPANY—

Tier 1 Notification Form 2017

Speedway Store #3642
939 Dixie Highway
Rossford, Ohio, 43460
Wood County

OAC 1301-7-9-17 (September 1, 2017)
BUSTR ID#: 87000087-N00006
PUSTRCB ID#: Pending

Prepared for:
Speedway LLC
P.O. Box 1500
Springfield, OH 45501

April 16, 2020

Document Information

Prepared for	Speedway LLC Michael Byrne P.O. Box 1500 Springfield, Ohio 45501
Project Name	Speedway Store #3642
File Reference	3642_T1 Notification Report_2020-04
Date	April 16, 2020

Contact Information

ATC Group Services LLC
8100 Snowville Road
Brecksville, Ohio 44141
Phone #: 1-440-838-7177
Fax#: 1-440-838-7181

www.atcgroupservices.com

Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

TIER 1 NOTIFICATION FORM 2017

REPORT DATE: April 16, 2020 FACILITY ID#: 87000087

OWNER/OPERATOR AND FACILITY DATA

UST OWNER INFORMATION:

COMPANY:	Speedway LLC
ADDRESS:	P.O. Box 1500
CITY, STATE:	Springfield, OH
ZIP:	45501
CONTACT PERSON:	Michael Byrne
CONTACT PHONE:	937-863-7667
EMAIL:	mbyrne@speedway.com

FACILITY INFORMATION:

COMPANY:	Speedway Store #3642
ADDRESS:	939 Dixie Highway
CITY, ZIP:	Rossford, 43460
COUNTY:	Wood
LATITUDE (decimal):	41.60508 °N
LONGITUDE (dec):	83.56241 °W
RELEASE #:	87000087-N00006

UST OPERATOR INFORMATION:

COMPANY:	Speedway LLC
ADDRESS:	P.O. Box 1500
CITY, STATE:	Springfield, OH
ZIP:	45501
CONTACT PERSON:	Michael Byrne
CONTACT PHONE:	937-863-7667
EMAIL:	mbyrne@speedway.com

PROPERTY OWNER INFORMATION:

COMPANY:	Speedway LLC
ADDRESS:	P.O. Box 1500
CITY, STATE:	Springfield, OH
ZIP:	45501
CONTACT PERSON:	Michael Byrne
CONTACT PHONE:	937-863-7667
EMAIL:	mbyrne@speedway.com

UNDERGROUND STORAGE TANK (UST) SYSTEM DATA

TANK #	DATE INSTALLED	CAPACITY	PRODUCT	CONST. MATERIAL	TANK STATUS	DATE REMOVED
T00001	1/1/1967	6,000	Gasoline	Fiberglass Reinforced Plastic	CIU	N/A
T00002	1/1/1967	6,000	Gasoline	Fiberglass Reinforced Plastic	CIU	N/A
T00003	1/1/1967	8,000	Gasoline	Fiberglass Reinforced Plastic	CIU	N/A
T00004	1/1/1967	550	Used Oil	Fiberglass Reinforced Plastic	R	7/15/1997

STATUS: ***CIP*** = *Closed-in-Place,* ***CIS*** = *Change-in-Service,* ***CIU*** = *Currently-In-Use,* ***R*** = *Removed,* ***RE*** = *Replaced,* ***OOS<90*** = *Out-of-Service < 90 days,* ***OOS>90*** = *Out-of-Service > 90 days,* ***OOS>12*** = *Out-of-Service > 12 months*

RELEASE DETAILS

Describe when/how the release was discovered (specific components, areas impacted, etc.):

Speedway Store #3642 is a retail petroleum facility located at 939 Dixie Highway, Rossford, Wood County, Ohio (**Figure 1**). The site is located at the east corner of the intersection between Dixie Highway and Rossway Avenue in Rossford, Ohio. The former used oil underground storage tank (UST) was located on the northwest side of the current dumpster enclosure. Three (3) USTs are currently located within a common cavity on the southwestern portion of the property. There are a total of two (2) dispensers located under a common canopy.

On September 28, 2019, a high water alarm was reported in the regular unleaded gasoline (RUL) 6,000 gallon UST (Tank 1). A tightness test determined that the tank top flange for the submersible turbine pump (STP) was a possible leak location. No evidence was found that product was released from the UST and tank inventory confirmed that product had not exceeded the overfill limit.

On October 4, 2019, UST contractor Mid Michigan Station Services (Mid-Michigan) was onsite to repair the flange after removing the STP secondary containment sump and associated product pipe. ATC Group Services LLC (ATC) collected soil samples of the sand backfill from the area in and around the STP sump. Photoionization detector (PID) readings were collected for each soil sample. The details of these closure activities are presented in the Closure Assessment Form submitted to the Bureau of Underground Storage Tank Regulations (BUSTR) on January 13, 2020. Analytical results reported naphthalene and 1,2,4 trimethylbenzene concentrations in all three (3) soil samples above the most conservative Soil Class 1, BUSTR Closure Action Levels. All other chemicals of concern (COC) concentrations in the soil samples collected were reported below Closure Action Levels.

On January 8 and January 9, 2020, ATC was onsite with Envirocore, LLC to install three (3) monitoring wells, identified as MW-12 through MW-14, as part of the site check. Soil samples were collected according to BUSTR guidelines and selected for laboratory analysis. Soil samples were submitted to Pace Analytical Services, Inc. (Pace) in Green Bay, Wisconsin for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE), 1,2,4 trimethylbenzene, naphthalene, 1,2 dibromoethane (EDB), and 1,2 dichloroethane (EDC) by United States Environmental Protection Agency (U.S. EPA) Method 8260, and total petroleum hydrocarbons (TPH) C6-C12 by U.S. EPA Method 8015. Analytical results reported concentrations of various COCs in the soil samples collected from MW-12 above the most conservative Tier 1 Action Levels. Concentrations of COC in the soil samples collected from monitoring MW-13 and MW-14 were reported below Tier 1 Action Levels.

On January 15, 2020, ATC was on-site to develop the newly installed monitoring wells. On January 22, 2020, groundwater samples were collected from the three (3) monitoring wells. Groundwater samples were submitted to Pace for analysis of BTEX and MTBE, 1,2,4 trimethylbenzene, naphthalene, and EDC by U.S. EPA Method 8260 and EDB by U.S. EPA Method 8011. Analytical results reported concentrations of benzene, naphthalene, 1,2,4-trimethylbenzene, and MTBE in the groundwater sample collected from MW-12 above the most conservative Tier 1 Action Levels. Concentrations of COC in the groundwater samples collected from monitoring well MW-13 and MW-14 were reported below Tier 1 Action Levels.

The location of the site is shown on **Figure 1**. A site map is included as **Figure 2**. Analytical results of the soil samples are summarized in **Table 1** and **Figure 3**. Analytical results of groundwater samples are summarized in **Table 3** and **Figure 4. Figure 5** depicts the relative elevation of groundwater and flow direction. Speedway will proceed to the Tier 1 Investigation process and submit the Tier 1 Investigation Form on or before October 1, 2020.

LEAK AUTOPSY

POTENTIAL RELEASE SOURCE(S):

☐ Tank	☐ Piping	☐ Dispenser	☒ Submersible Pump
☐ Delivery Problem	☐ Unknown	☐ Other	☐ N\A

List specific sources:

On September 28, 2019, a high water alarm was reported in the regular unleaded gasoline (RUL) #1 6,000 gallon UST. A tightness test determined that the tank top flange for the submersible turbine pump (STP) was a possible leak location.

POTENTIAL CAUSE OF RELEASE:

☐ Spill	☐ Overfill	☐ Corrosion	☐ Install Problem	☐ N\A
☒ Physical / Mechanical Damage or Failure			☐ Unknown	☐ Other

List specific causes:

On September 28, 2019, a high water alarm was reported in the regular unleaded gasoline (RUL) #1 6,000 gallon UST. A tightness test determined that the tank top flange for the submersible turbine pump (STP) was a possible leak location.

TIER 1 SOURCE INVESTIGATION

CHEMICALS OF CONCERN (Analytical Group):

☒ Group 1	☐ Group 2	☐ Group 3	☐ Group 4	☐ Group 5

If Group 5, explain:

SUBSURFACE INVESTIGATION:

Previously installed soil borings and date installed:

No soil borings were previously installed for this release.

Previously installed monitoring wells and date installed:

No monitoring wells were previously installed for this release.

Soil borings installed during this investigation and date installed:

Three (3) borings (MW-12 through MW-14) were installed during this investigation on January 8 and January 9, 2019.

Monitoring wells installed during this investigation and date installed:

Three (3) monitoring wells (MW-12 through MW-14) were installed during this investigation on January 8 and January 9, 2019.

SB/MW	Install Date	MW Diameter	Latitude	Longitude	Installed With*	Total Depth	Depth to GW	Depth to Bedrock	Screened Interval
MW-12	1/8/2020	2"	41.60510	-83.56251	HA/DP	16'	10'	N/A	5-15'
MW-13	1/8/2020	2"	41.60501	-83.56250	HA/DP	16'	8'	N/A	5-15'
MW-14	1/9/2020	2"	41.60500	-83.56238	HA/DP	16'	12'	N/A	3-13'

** **HSA/SS** = Hollow stem auger / split spoon, **DP** = Direct push, **HA** = Hand auger*

FIELD SCREENING

Instrument used: Mini Rae 3000 Photoionization Detector (PID)

Methodology:

Soil samples from the acetate sample liners were divided between one (1) laboratory grade glass jar and a re-sealable plastic bag using a pair of clean, nitrile gloves per two (2) foot sample, changed between samples to prevent cross-contamination. The re-sealable bag was held for a minimum of ten (10) minutes prior to scanning the headspace for volatile organic compounds (VOCs). The headspace above each sample was scanned for VOCs by piercing the bag with the PID probe. The maximum detected reading in parts per million (ppm), was recorded for each sample.

Calibration procedure:

The meter was calibrated before use to 100 parts per million isobutylene-in-air commercial grade standard. The Flow rate of the gas was controlled by a regulator set at the factory. The analyzer was connected to the regulator with a short section of flexible tubing. The meter was then checked for battery strength, re-zeroed, and adjusted to calibration media. The analyzer was then disassembled and maintained as necessary.

SB/MW#	MW-12	MW-13	MW-14					
Depth	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)	PID/FID (ppm)
0-2'	--	--	--					
2-4'	143	**17.2**	**5.1**					
4-6'	**843**	10.8	3.4					
6-8'	715	**7.6**	**8.3**					
8-10'	**1010**	--	1.8					
10-12'	--	--	1.7					
12-14'	--	--	--					
14-16'	--	--	--					
GW Depth	10'	8'	12'					

NOTE:** THE INTERVALS OF SAMPLES SUBMITTED FOR ANALYSIS SHOULD BE INDICATED IN **BOLD

SOIL CLASSIFICATION

Select one of the following:

☐ SOIL CLASS 1 (USCS soil symbols GW, GP, GM, GC, SW, SP, SM)

☒ SOIL CLASS 2 (USCS soil symbols SC, ML, CL, OL, MH)

☐ SOIL CLASS 3 (USCS soil symbols CH, OH, PT)

LABORATORY DATA

LABORATORY NAME: Pace Analytical Service, Inc.
ADDRESS: 1241 Bellevue Street Suite 9, Green Bay, WI 54302
PHONE #: 902-469-2436

ACCREDITATION (List at least one): Florida/NELAP Certification #E87948

Date samples received by lab: Soil: 1/13/2020; Groundwater: 1/24/2020
Temperature of cooler: Soil: 1.0°C; Groundwater: 0.5°C
Date samples analyzed by lab: Soil: 1/16/2020 to 1/17/2020; Groundwater: 1/28/2020 to 1/29/2020
Test methods: Soil: 8260 and 8015; Groundwater: 8260 and 8011

CONTAMINANT CONCENTRATIONS IN SOIL

CHEMICAL OF CONCERN	ACTION LEVEL (ppm)	TIER 1 SOURCE INVESTIGATION MAXIMUM			HISTORICAL MAXIMUM*		
		Location ID	Depth	Conc. (ppm)**	Location ID	Depth	Conc. (ppm)**
BENZENE	0.437	MW-12	8-10'	**2.6**	MW-12	8-10'	**2.6**
TOLUENE	168	MW-12	4-6'	0.37J	MW-12	4-6'	0.37J
ETHYLBENZENE	130	MW-12	8-10'	22.5	MW-12	8-10'	22.5
TOTAL XYLENES	51.8	MW-12	4-6'	**71.6**	MW-12	4-6'	**71.6**
NAPHTHALENE	1.12	MW-12	4-6'	**18.2**	MW-12	4-6'	**18.2**
1,2,4 TRIMETHYL BENZENE	5.89	MW-12	8-10'	**111**	MW-12	8-10'	**111**
MTBE	2.67	MW-12	8-10'	<0.40	MW-12	8-10'	<0.40
1,2 - DIBROMOETHANE (EDB)	0.00177	MW-12	8-10'	**<0.42**	MW-12	8-10'	**<0.42**
1,2 - DICHLOROETHANE (EDC)	0.177	MW-12	8-10'	**<0.34**	MW-12	8-10'	**<0.34**
BENZO (a) ANTHRACENE		--	--	--	--	--	--
BENZO (a) PYRENE		--	--	--	--	--	--
BENZO (b) FLUORANTHENE		--	--	--	--	--	--
BENZO (k) FLUORANTHENE		--	--	--	--	--	--
CHRYSENE		--	--	--	--	--	--
DIBENZ (a,h) ANTHRACENE		--	--	--	--	--	--
INDENO (1,2,3-cd) PYRENE		--	--	--	--	--	--
TPH (C6-C12)	5,000	MW-12	8-10'	2,690	MW-12	8-10'	2,690
TPH (C10-C20)		--	--	--	--	--	--
TPH (C20-C34)		--	--	--	--	--	--
OTHER (List below, add rows as needed):							

** Historic Maximum should include the highest results from previous investigations including, but not limited to, Closure Assessment, Site Check, etc.*

*** Dry weight. Where concentrations are less than detection limits, indicate the detection limit (e.g. < 0.005).*

CONTAMINANT CONCENTRATIONS IN GROUNDWATER							
CHEMICAL OF CONCERN	ACTION LEVEL (ppm)	TIER 1 SOURCE INVESTIGATION MAXIMUM			HISTORICAL MAXIMUM*		
		Location ID	Depth	Conc. (ppm)**	Location ID	Depth	Conc. (ppm)**
BENZENE	0.005	MW-12	10.68'	**1.8**	MW-12	10.68'	**1.8**
TOLUENE	1	MW-12	10.68'	0.026J	MW-12	10.68'	0.026J
ETHYLBENZENE	0.7	MW-12	10.68'	0.055	MW-12	10.68'	0.055
TOTAL XYLENES	10	MW-12	10.68'	1.7	MW-12	10.68'	1.7
NAPHTHALENE	0.0014	MW-12	10.68'	**0.11**	MW-12	10.68'	**0.11**
1,2,4 TRIMETHYL BENZENE	0.015	MW-12	10.68'	**0.69**	MW-12	10.68'	**0.69**
MTBE	0.120	MW-12	10.68'	**2.3**	MW-12	10.68'	**2.3**
1,2 - DIBROMOETHANE (EDB)	0.00005	All Locations	--	<0.0000053	All Locations	--	<0.0000053
1,2 - DICHLOROETHANE (EDC)	0.005	MW-12	10.68'	<0.0056	MW-12	10.68'	<0.0056
BENZO (a) ANTHRACENE		--	--	--	--	--	--
BENZO (a) PYRENE		--	--	--	--	--	--
BENZO (b) FLUORANTHENE		--	--	--	--	--	--
BENZO (k) FLUORANTHENE		--	--	--	--	--	--
CHRYSENE		--	--	--	--	--	--
DIBENZ (a,h) ANTHRACENE		--	--	--	--	--	--
INDENO (1,2,3-cd) PYRENE		--	--	--	--	--	--
TPH (C6-C12)		--	--	--	--	--	--
TPH (C10-C20)		--	--	--	--	--	--
TPH (C20-C34)		--	--	--	--	--	--
OTHER (List below, add rows as needed):							

** Historic Maximum should include the highest results from previous investigations including, but not limited to, Closure Assessment, Site Check, previous round(s) of sampling, etc.*

*** Where concentrations are less than detection limits, indicate the detection limit (e.g. < 0.005).*

FORM PREPARER & OWNER / OPERATOR SIGNATURE

FORM PREPARED BY:

NAME:	Colin McNulty
COMPANY:	ATC Group Services LLC
STREET ADDRESS:	8100 Snowville Road
CITY, STATE, ZIP:	Brecksville, Ohio
PHONE #:	440-262-1860
EMAIL:	Colin.mcnulty@atcgs.com

The Tier 1 Notification Report Form **must** be signed by the UST owner/operator. The owner/operator is responsible for ensuring all data is accurate, and the form is legible and complete.

By submitting this form, I acknowledge that a Tier 1 Delineation performed in accordance with OAC 1301:7-9-13(I) is required, and that a Tier 1 Investigation Report will be submitted to BUSTR on or before: **Date: October 1, 2020**

OWNER / OPERATOR SIGNATURE: Michael Byrne

PRINT NAME: **Michael Byrne / Speedway LLC** **DATE:** **4/15/2020**

MISCELLANEOUS DATA

THE FOLLOWING ITEMS MUST BE ATTACHED:

ADDITIONAL INFORMATION WHICH IS REQUIRED BY OAC 1301:7-9-13 OR ADDITIONAL INFORMATION WHICH CLARIFIES THE INVESTIGATION ACTIVITIES SHALL BE SUBMITTED AS APPENDICIES TO THIS REPORT.

TABLES:

TABLE 1 SOIL CONCENTRATIONS COMPARED TO ACTION & DELINEATION LEVELS
TABLE 2 GROUND WATER CONCENTRATIONS COMPARED TO ACTION & DELINEATION LEVELS

FIGURES:

FIGURE 1 TOPOGRAPHIC MAP
FIGURE 2 SITE MAP
FIGURE 3 SITE MAP WITH SOIL BORING LOCATIONS, SOIL CONCENTRATIONS AND SAMPLE DEPTH
FIGURE 4 SITE MAP WITH MONITORING WELLS AND GROUND WATER CONCENTRATIONS
FIGURE 5 GROUND WATER CONTOUR MAP

NOTE:
AERIAL PHOTOGRAPHS SHOULD NOT BE USED AS THE BASE MAP FOR THESE FIGURES DUE TO REPRODUCIBILITY ISSUES.

APPENDIX:

APPENDIX A SOIL BORING LOGS / WELL CONSTRUCTION DIAGRAMS
APPENDIX B MONITORING WELL DEVELOPMENT & SAMPLING FORMS
APPENDIX C SOIL CLASSIFICATION FORM
APPENDIX D LABORATORY ANALYTICAL REPORT
APPENDIX E LABORATORY SUMMARY FORM
APPENDIX F CHAIN OF CUSTODY

CHEMICALS OF CONCERN AND RECOMMENDED LABORATORY METHODS

Analytical Group 1: Light distillate products including unleaded gasoline, leaded gasoline, gasoline blended with alcohol, racing fuel, and aviation gasoline

Analytical Group 2: Middle distillate products including diesel, biodiesel blended with diesel, light fuel oils, stoddard solvents, mineral spirits, kerosene, and jet fuels

Analytical Group 3: Heavy petroleum distillate products including, but not limited to, lubricating and hydraulic oils

Analytical Group 4: Used oil

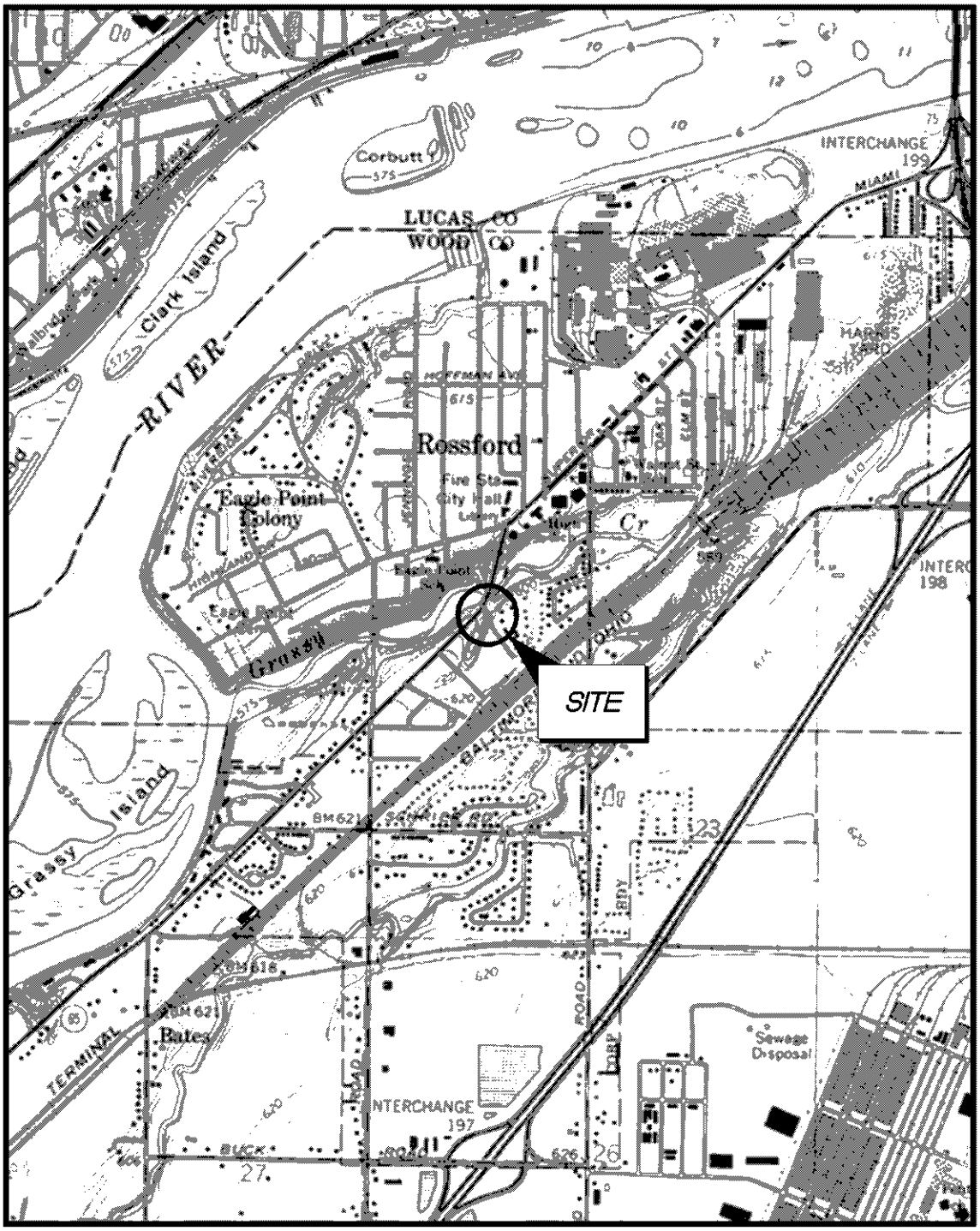
Analytical Group 5: Unknown petroleum products or petroleum products other than those listed in analytical groups 1, 2, 3 and 4. Additional chemical(s) of concern and analytical methods must be selected, as appropriate, based on reasonably available information related to the product stored, including additives, impurities and degradation products. In addition, chemical(s) of concern should be selected based on their toxicity, mobility, and persistence in the environment. The owners and operators shall consult with the state fire marshal for the appropriate chemical(s) of concern for products not in analytical group 1, 2, 3 and 4.

	Analytical Group Number	1	2	3	4	5	**Analytical Methods[7]**	
		Light Distillates	Middle Distillates	Heavy Distillates	Used Oil	Unknowns & Others	Soil [4]	Groundwater
	Chemical							
Aromatics	Benzene	x	x		x		8021, 8260	8021, 8260
	Toluene	x	x		x			
	Ethylbenzene	x	x		x			
	o, m and p-Xylenes	x	x		x			
	Naphthalene	x			x			
	1,2,4 - Trimethylbenzene	x			x			
Additives	Methyl tertiary-butyl ether (MTBE)	x			x		8021, 8260	8021, 8260
	1,2 – Dibromoethane (EDB) [5,6]	x			x		8260	8011
	1,2 – Dichloroethane (EDC) [5,6]	x			x		8260	8260
Polynuclear Aromatics	Benzo(a)anthracene		x	x	x		8270, 8310	8270, 8310
	Benzo(a)pyrene		x	x	x			
	Benzo(b)fluoranthene		x	x	x			
	Benzo(k)fluoranthene		x	x	x			
	Chrysene		x	x	x			
	Dibenz(a,h)anthracene		x	x	x			
	Indeno(1,2,3-c,d)pyrene		x	x	x			
	Naphthalene		x	x	x			
Chlorinated Hydrocarbons	Volatile Organic Hydrocarbons				x		8260	8260
Total Petroleum Hydrocarbons [1]	TPH (C6 – C12)	x			x		8015	N/A
	TPH (C10 – C20)		x		x			
	TPH (C20 – C34)			x	x			
	Varies based on UST contents [2]			x	x	x [3]		

1 TPH analysis is not required for groundwater samples.
2 Additional chemicals of concern should be based on Material Safety and Data Sheets (MSDS) and analyzed with an appropriate laboratory test method capable of meeting established target levels.
3 Refer to paragraph (H)(1)(c)(v).
4 Soil analytical results shall be reported on a dry weight basis.
5 EDB and EDC shall be analyzed for automotive gasoline USTs that were in service prior to January 1, 1996.
6 EDB and EDC shall be analyzed for all USTs containing aviation gasoline, racing fuel, and used oil.

Speedway Store #3642

FIGURES



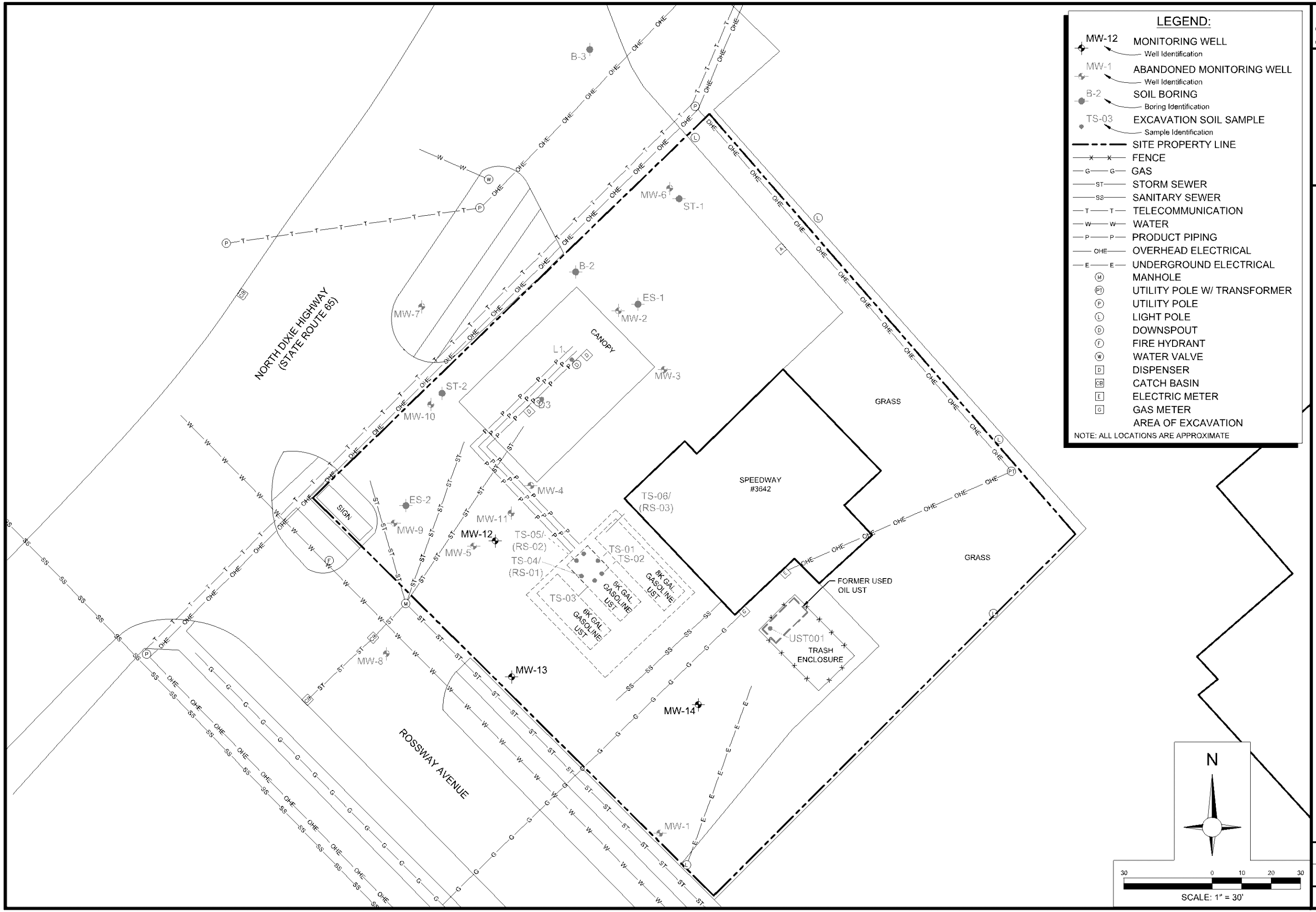
LATITUDE: N 41° 38' 18.45"
LONGITUDE: W 83° 33' 44.38"
USGS 7.5-MINUTE TOPOGRAPHIC MAP; ROSSFORD, OH QUADRANGLE 2000: SCALE 1:24,000

TOPOGRAPHIC MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Project Number: 2401160314		Drn. By: DH
Drawing File: SEE LOWER LEFT		Ckd. By: BW
Date: 12/19	Scale: 1"= 2,000'	App'd By: -
ATC		Figure: 1

H:\2019\OTHER OFFICES\OHIO\SPEEDWAY LLC\SPEEDWAY #3642\2401160314-TOPO.DWG, FIG1



LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
- B-2 — SOIL BORING (Boring Identification)
- TS-03 — EXCAVATION SOIL SAMPLE (Sample Identification)
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION
- WATER
- PRODUCT PIPING
- OVERHEAD ELECTRICAL
- UNDERGROUND ELECTRICAL
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AREA OF EXCAVATION

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

30 0 10 20 30

SCALE: 1" = 30'

Dm. By:	DH
Chd. By:	BW
App'd By:	
Chd. Date:	
Project Number:	2401160314
Drawing File:	SEE LOWER LEFT

ATC

SITE MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 1/20
Scale: AS SHOWN
Figure: 2

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160314-SITE.DWG, FIG2

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
- B-2 — SOIL BORING (Boring Identification)
- TS-03 — EXCAVATION SOIL SAMPLE (Sample Identification)
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
- SANITARY SEWER
- TELECOMMUNICATION
- WATER
- PRODUCT PIPING
- OVERHEAD ELECTRICAL
- UNDERGROUND ELECTRICAL
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.437**
Toluene	T	**168**
Ethyl-benzene	E	**130**
Total Xylenes	X	**51.8**
Naphthalene	N	**1.12**
1,2,4-Trimethylbenzene	124T	**5.89**
Methyl tert butyl ether	MTBE	**2.67**
1,2-Dibromoethane (EDB)*	EDB	**0.00177**
1,2-Dichloroethane (EDC)	EDC	**0.177**
TPH (C6-C12)	TPH	**5,000**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/kg = MILLIGRAMS PER KILOGRAM

MW-12			
Sample Date		1/8/2020	
Sample Depth (ft.)		4-6	8-10
B	mg/kg	**2.1**	**2.6**
T	mg/kg	0.37J	<0.32
E	mg/kg	17.7	22.5
X	mg/kg	**71.6**	**53.9**
N	mg/kg	**18.2**	**13.2**
124T	mg/kg	**102**	**111**
MTBE	mg/kg	0.31J	<0.40
EDB	mg/kg	**<0.26**	**<0.42**
EDC	mg/kg	**<0.21**	**<0.34**
TPH	mg/kg	931	2,690

MW-13			
Sample Date		1/8/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.0071J	0.0081J
T	mg/kg	<0.0037	<0.0036
E	mg/kg	<0.0041	<0.0040
X	mg/kg	0.030J	<0.010
N	mg/kg	<0.0049	<0.0047
124T	mg/kg	0.017	<0.0032
MTBE	mg/kg	0.0063J	0.0055J
EDB	mg/kg	<0.00042	<0.00040
EDC	mg/kg	<0.00048	<0.00047
TPH	mg/kg	19.0	<3.7

MW-14			
Sample Date		1/9/2020	
Sample Depth (ft.)		2-4	6-8
B	mg/kg	0.011J	0.0083J
T	mg/kg	<0.0038	<0.0040
E	mg/kg	<0.0043	<0.0045
X	mg/kg	<0.011	<0.011
N	mg/kg	<0.0050	<0.0054
124T	mg/kg	<0.0034	<0.0037
MTBE	mg/kg	<0.0051	0.0064J
EDB	mg/kg	<0.00043	<0.00046
EDC	mg/kg	<0.00050	<0.00053
TPH	mg/kg	<3.9	<4.1

N

30 0 10 20 30

SCALE: 1" = 30'

Dm. By:	DH
Chd. By:	BW
App'd By:	
Chd. Date:	
Project Number:	2401160314
Drawing File:	SEE LOWER LEFT

SITE MAP WITH SOIL BORING LOCATIONS, CONCENTRATIONS, AND SAMPLE DEPTHS

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 1/20
Scale: AS SHOWN
Figure: 3

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160314-SOIL DWG, FIG3

LEGEND:

- MW-12 — MONITORING WELL (Well Identification)
- MW-1 — ABANDONED MONITORING WELL (Well Identification)
- B-2 — SOIL BORING (Boring Identification)
- TS-03 — EXCAVATION SOIL SAMPLE (Sample Identification)
- SITE PROPERTY LINE
- FENCE
- GAS
- STORM SEWER
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- TELECOMMUNICATION
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- OVERHEAD ELECTRICAL
- UNDERGROUND ELECTRICAL
- MANHOLE
- UTILITY POLE W/ TRANSFORMER
- UTILITY POLE
- LIGHT POLE
- DOWNSPOUT
- FIRE HYDRANT
- WATER VALVE
- DISPENSER
- CATCH BASIN
- ELECTRIC METER
- GAS METER
- AREA OF EXCAVATION

Applicable Action Levels		
Benzene	B	**0.005**
Toluene	T	**1**
Ethyl-benzene	E	**0.7**
Total Xylenes	X	**10**
Naphthalene	N	**0.0014**
1,2,4-Trimethylbenzene	124T	**0.015**
Methyl tert butyl ether	MTBE	**0.120**
1,2-Dibromoethane	EDB	**0.00005**
1,2-Dichloroethane	EDC	**0.005**

NOTE: ALL LOCATIONS ARE APPROXIMATE
J = ESTIMATED VALUE BETWEEN THE LABORATORY REPORTING AND METHOD DETECTION LIMITS
mg/L = MILLIGRAMS PER LITER

MW-12		
Sample Date		1/22/2020
B	mg/L	**1.8**
T	mg/L	0.026J
E	mg/L	0.055
X	mg/L	1.7
N	mg/L	**0.11**
124T	mg/L	**0.69**
MTBE	mg/L	**2.3**
EDB	mg/L	<0.0000053
EDC	mg/L	<0.0056

MW-13		
Sample Date		1/22/2020
B	mg/L	0.0015
T	mg/L	0.00029J
E	mg/L	0.00033J
X	mg/L	<0.0015
N	mg/L	<0.0012
124T	mg/L	<0.00084
MTBE	mg/L	0.037
EDB	mg/L	<0.0000053
EDC	mg/L	<0.00028

MW-14		
Sample Date		1/22/2020
B	mg/L	<0.00025
T	mg/L	<0.00017
E	mg/L	<0.00022
X	mg/L	<0.0015
N	mg/L	<0.0012
124T	mg/L	<0.00084
MTBE	mg/L	<0.0012
EDB	mg/L	<0.0000053
EDC	mg/L	<0.00028

N

SCALE: 1" = 30'

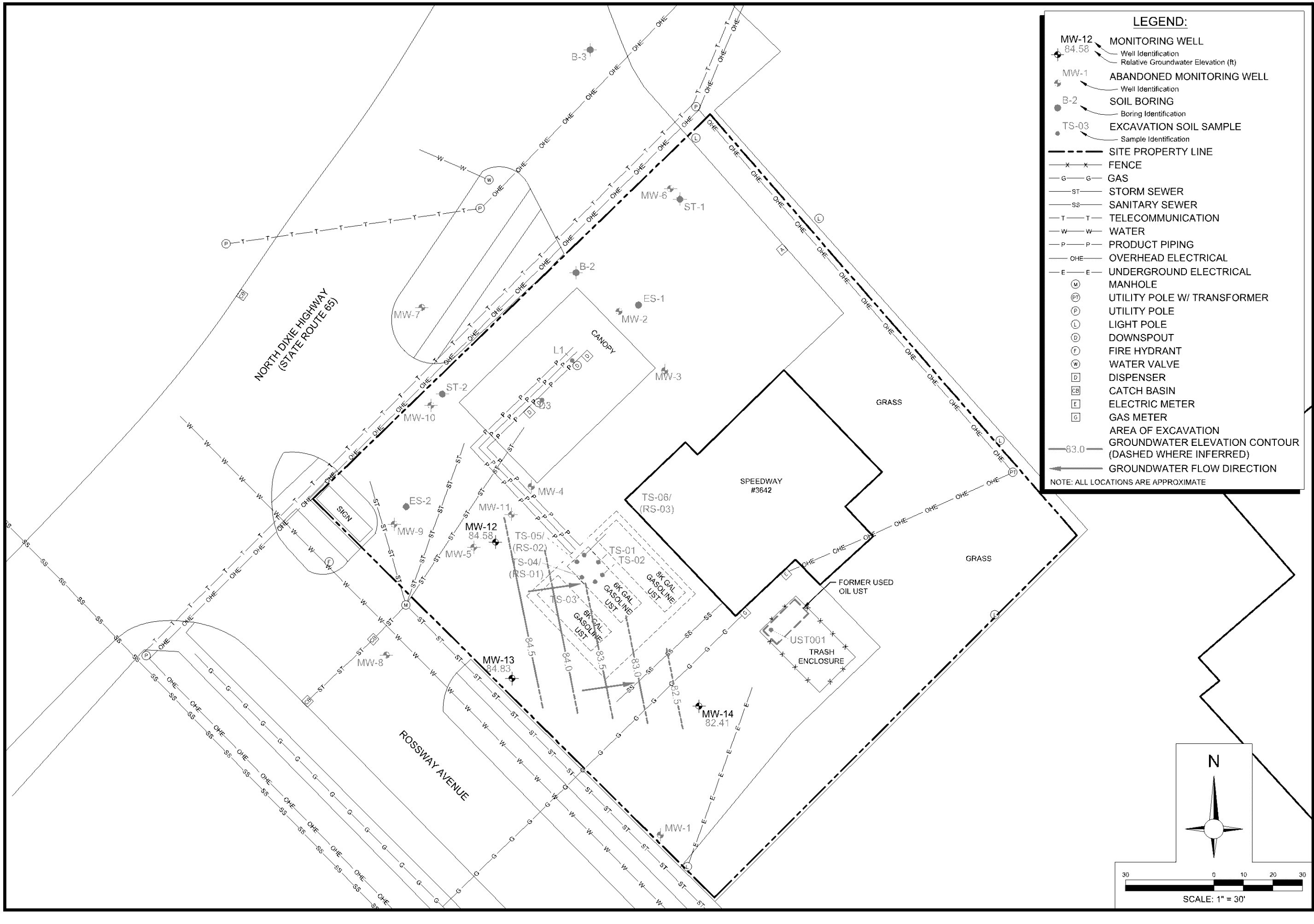
Dm. By:	DH
Ckd. By:	BW
App'd By:	
Ckd. Date:	
Project Number:	2401160314
Drawing File:	SEE LOWER LEFT

SITE MAP WITH MONITORING WELL LOCATIONS AND GROUNDWATER CONCENTRATIONS

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 1/20
Scale: AS SHOWN
Figure: 4

H:\2020\OTHER OFFICES\OHIO\SPEEDWAYS\SPEEDWAY #3642\2401160314.GW.DWG, FIG4



Dm. By: DH
Ckd. By: BW
App'd By:
Ckd. Date:

Project Number: 2401160314
Drawing File: SEE LOWER LEFT

ATC

GROUNDWATER CONTOUR MAP

SPEEDWAY LLC
SPEEDWAY STORE #3642
939 DIXIE HIGHWAY
ROSSFORD, WOOD COUNTY, OHIO

Date: 2/20
Scale: AS SHOWN
Figure: 5

H:\2020\OTHER OFFICES\OHIO\SPEEDWAY\SPEEDWAY #3642\2401160314-POT.DWG, FIG5

Speedway Store #3642

TABLES

Table 1
Soil Concentrations Compared to Action & Delineation Levels
Speedway Store # 3642
Rossford, Wood County, Ohio

Soil Sample	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4 - Trimethyl benzene	Methyl tert butyl ether	1,2 - Dibromo-ethane (EDB)	1,2 - Dichloro-ethane (EDC)	TPH (C6-C12)
Tier 1 Action Levels		**0.437**	**168**	**130**	**51.8**	**1.12**	**5.89**	**2.67**	**0.00177**	**0.177**	**5,000**
MW-12 (4-6')	1/8/2020	**2.1**	0.37J	17.7	**71.6**	**18.2**	**102**	0.31J	**<0.26**	**<0.21**	931
MW-12 (8-10')	1/8/2020	**2.6**	<0.32	22.5	**53.9**	**13.2**	**111**	<0.40	**<0.42**	**<0.34**	2,690
MW-13 (2-4')	1/8/2020	0.0071J	<0.0037	<0.0041	0.030J	<0.0049	0.017	0.0063J	<0.00042	<0.00048	19.0
MW-13 (6-8')	1/8/2020	0.0081J	<0.0036	<0.0040	<0.010	<0.0047	<0.0032	0.0055J	<0.00040	<0.00047	<3.7
MW-14 (2-4')	1/9/2020	0.011J	<0.0038	<0.0043	<0.011	<0.0050	<0.0034	<0.0051	<0.00043	<0.00050	<3.9
MW-14 (6-8')	1/9/2020	0.0083J	<0.0040	<0.0045	<0.011	<0.0054	<0.0037	0.0064J	<0.00046	<0.00053	<4.1

Tier 1 Action Levels

Soil to Drinking Water Leaching	**0.437**	**168**	163	1,950	**1.12**	**5.89**	**2.67**	**0.00177**	**0.177**	--
Soil Direct Contact	26	820	**130**	260	90	160	1,100	0.83	11	--
Soil to Indoor Air	1.95	1,470	491	**51.8**	65.8	6.54	167	0.178	1.16	
Soil to Outdoor Air	86.2	65,100	21,700	2,290	2,910	289	7,400	7.87	51.3	--
TPH Saturation	--	--	--	--	--	--	--	--	--	**5,000**
Soil Delineation Levels	1.67	1,240	406	42.7	52.7	5.35	150	0.154	1.01	1,000

All concentrations and action levels presented in parts per million (mg/kg).

Value Indicates the concentration exceeds the applicable action level or calculated SSTL

12 Indicates most conservative applicable action level

Soil Class 2, Residential, Drinking Water, GW <15ft

J - Estimated concentration above the adjusted method limit and below the adjusted reporting limit

Table 2

Ground Water Concentrations Compared to Action & Delineation Levels

Speedway Store # 3642

Rossford, Wood County, Ohio

Monitoring Well	Sample Date	Top of Casing	Depth to Water	GW Elevation	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Napthalene	1,2,4 - Trimethyl benzene	Methyl tert butyl ether	1,2 - Dibromoethane (EDB)	1,2 - Dichloro-ethane (EDC)
Applicable Action Levels (mg/L)					**0.005**	**1**	**0.7**	**10**	**0.0014**	**0.015**	**0.120**	**0.00005**	**0.005**
MW-12	1/22/2020	95.26	10.68	84.58	**1.8**	0.026J	0.055	1.7	**0.11**	**0.69**	**2.3**	<0.0000053	<0.0056
MW-13	1/22/2020	94.89	10.06	84.83	0.0015	0.00029J	0.00033J	<0.0015	<0.0012	<0.00084	0.037	<0.0000053	<0.00028
MW-14	1/22/2020	93.82	11.41	82.41	<0.00025	<0.00017	<0.00022	<0.0015	<0.0012	<0.00084	<0.0012	<0.0000053	<0.00028

Tier 1 Action Levels

Groundwater Delineation Levels	0.417	217	41.6	10	1.68	0.417	134	0.09	0.59
Groundwater Ingestion	**0.005**	**1**	**0.7**	**10**	**0.0014**	**0.015**	**0.120**	**0.00005**	**0.005**
Groundwater to Indoor Air	4.18	2,180	417	50.8	16.9	4.18	1,340	0.910	5.92
Groundwater to Outdoor Air	828	452,000	90,100	9,780	1,020	821	97,800	51.7	566

All concentrations and action levels presented in parts per million (mg/L).

NA - Not Analyzed

Value Indicates the concentration is above the applicable action level or calculated SSTL

12 Indicates applicable action level/ SSTL

Soil Class 2, Residential, Drinking Water, GW <15ft

Speedway Store #3642

APPENDIX A

SOIL BORING LOGS / WELL CONSTRUCTION DIAGRAMS

ENVIRONMENTAL · GEOTECHNICAL
BUILDING SCIENCES · MATERIALS TESTING

8100 Snowville Road
Brecksville, OH 44141
440 838 7177
440 838 7181

BORING LOG

CLIENT **Speedway LLC**
PROJECT NAME **Speedway #3642**
PROJECT ADDRESS **939 Dixie Highway**
Rossford, Ohio

BORING # **MW-12**
JOB # **Tier 1 Site Check**
GEOLOGIST **M. Hummel**
APPROVED BY **B.Weeder**

DRILLING and SAMPLING INFORMATION

Date Started	1/8/2020	Casing Length	5 ft.
Date Completed	1/8/2020	Casing Diameter	2 in.
Drill Foreman	Envirocore	Screen Length	10 ft.
Boring Method	HA/DT	Screen Diameter	2 in.
Coordinates	41.6051 °N	-83.56251 °W	

TEST DATA

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Recovery %	PID (ppm)	Remarks
Asphalt, fill, gravel	1.0		0-2	HA	100	-	Concrete pad and manhole
Silty clay, moist, grey, stiff	2.0						
Silty clay, moist, grey, stiff			2-4	HA	100	143	Bentonite from 1-4'
		5	4-6	HA	100	843*	Sample submitted from 4-6'
			6-8	DT	50	715	Sample submitted from 6-8'
			8-10	DT	25	1010*	
Silty clay, moist, grey, soft	10.0	10	10-12	DT	25	-	Sand from 4-15'
			12-14	DT	50	-	
		15	14-16	DT	50	-	Screen from 5-15'
End of boring at 16'.	16.0						

Groundwater ⊕ at 10.0 ft.

Well Completion: Concrete pad and manhole; Bentonite from 1-4'; Sand from 4-15'; Screen from 5-15'

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
DT - Dual Tube
CT - Continuous Tube
MC - Macrocore

Moisture Content
D = Dry
M = Moist
W = Wet

Depth to Groundwater
● Noted on Drilling Tools ____ ft.
○ Water in Sample 10.0 ft.
▽ At Completion (open hole) ____ ft.
▼ After ____ hours ____ ft.
▼ After ____ hours ____ ft.
▨ Cave Depth ____ ft.
+ At Survey 10.0 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
SD - Sonic Drilling
HA - Hand Auger
DP - Direct Push

ENVIRONMENTAL · GEOTECHNICAL
BUILDING SCIENCES · MATERIALS TESTING

8100 Snowville Road
Brecksville, OH 44141
440 838 7177
440 838 7181

BORING LOG

CLIENT **Speedway LLC**
PROJECT NAME **Speedway #3642**
PROJECT ADDRESS **939 Dixie Highway**
Rossford, Ohio

BORING # **MW-13**
JOB # **Tier 1 Site Check**
GEOLOGIST **M. Hummel**
APPROVED BY **B.Weeder**

DRILLING and SAMPLING INFORMATION

Date Started	1/8/2020	Casing Length	5 ft.
Date Completed	1/8/2020	Casing Diameter	2 in.
Drill Foreman	Envirocore	Screen Length	10 ft.
Boring Method	HA/DT	Screen Diameter	2 in.
Coordinates	41.60501 °N	-83.5625 °W	

TEST DATA

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Recovery %	PID (ppm)	Remarks
Asphalt	0.5		0-2	HA	100	-	Concrete pad and manhole
Fill, gravel	1.0						
Silty clay, moist, grey, stiff, trace pebbles and gravel	2.0						
Silty clay, moist, grey, stiff			2-4	HA	100	17.2*	Bentonite from 1-4'
							Sample submitted from 2-4`
			4-6	HA	100	10.8	
		5					
			6-8	DT	50	7.6*	
							Sample submitted from 6-8'
	8.0						
Silty clay, very moist, grey, soft			8-10	DT	25	-	
	10.0	10					
Silty clay, moist, grey, stiff			10-12	DT	25	-	Sand from 4-15'
			12-14	DT	50	-	
			14-16	DT	50	-	Screen from 5-15'
		15					
	16.0						
End of boring at 16'.							

Groundwater: ○ at 8.0 ft.; + at 11.2 ft.

Well Completion: Concrete pad and manhole; Bentonite from 1-4'; Sand from 4-15'; Screen from 5-15'

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
DT - Dual Tube
CT - Continuous Tube
MC - Macrocore

Moisture Content
D = Dry
M = Moist
W = Wet

Depth to Groundwater
● Noted on Drilling Tools ____ ft.
○ Water in Sample 8.0 ft.
▽ At Completion (open hole) ____ ft.
▼ After ____ hours ____ ft.
▼ After ____ hours ____ ft.
▨ Cave Depth ____ ft.
+ At Survey 11.2 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
SD - Sonic Drilling
HA - Hand Auger
DP - Direct Push

ENVIRONMENTAL · GEOTECHNICAL
BUILDING SCIENCES · MATERIALS TESTING

8100 Snowville Road
Brecksville, OH 44141
440 838 7177
440 838 7181

BORING LOG

CLIENT **Speedway LLC**
PROJECT NAME **Speedway #3642**
PROJECT ADDRESS **939 Dixie Highway**
Rossford, Ohio

BORING # **MW-14**
JOB # **Tier 1 Site Check**
GEOLOGIST **M. Hummel**
APPROVED BY **B.Weeder**

DRILLING and SAMPLING INFORMATION

Date Started	1/9/2020	Casing Length	3 ft.
Date Completed	1/9/2020	Casing Diameter	2 in.
Drill Foreman	Envirocore	Screen Length	10 ft.
Boring Method	HA/DT	Screen Diameter	2 in.
Coordinates	41.605 °N	-83.56238 °W	

TEST DATA

SOIL DESCRIPTION / SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Recovery %	PID (ppm)	Remarks
Asphalt	0.5		0-2	HA	100	-	Concrete pad and manhole
Fill, gravel	1.0						
Silty clay, moist, grey, medium stiff	2.0						Bentonite from 1-2'
SIlty clay, more moist, brown, medium soft			2-4	HA	100	5.1*	Sample submitted from 2-4'
			4-6	HA	100	3.4	
		5					
	6.0						
SIlty clay, moist, brown, stiff			6-8	DT	100	8.3*	Sample submitted from 6-8'
			8-10	DT	100	1.8	Screen from 3-13'
		10					
			10-12	DT	100	1.7	Sand from 2-13'
			12-14	DT	100	-	
			14-16	DT	100	-	
		15					
	16.0						
End of boring at 16'.							

Groundwater: + (At Survey)

Well Completion: Concrete pad and manhole; Bentonite from 1-2'; Screen from 3-13'; Sand from 2-13'

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
HA - Hand Auger
RC - Rock Core
DT - Dual Tube
CT - Continuous Tube
MC - Macrocore

Moisture Content
D = Dry
M = Moist
W = Wet

Depth to Groundwater
● Noted on Drilling Tools ____ ft.
○ Water in Sample ____ ft.
▽ At Completion (open hole) ____ ft.
▼ After ____ hours ____ ft.
▼ After ____ hours ____ ft.
▨ Cave Depth ____ ft.
\+ At Survey 12.0 ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
SD - Sonic Drilling
HA - Hand Auger
DP - Direct Push

Speedway Store #3642

APPENDIX B

MONITORING WELL DEVELOPMENT & SAMPLING FORMS

Well Development Form

Client: Speedway LLC	Location: Ross Ford	Date: 1-15-20
Personnel: Cody Unterbrink	Project #:	Time Arrived: 10:00
PM: Matt Hummel	Site #: 3682	Time Departed: 12:10
Weather:	# of Drums Generated Today: 1	Total # of Drums on site: 5

Well ID	Well Diameter (IN)	Well Depth (FT)	Product Level (FT)	Static Water Level (FT)	Feet of Water in Well	Five Well Volumes (Gal)	Volume Purged (Gal)	Start Purge Time (1)	End Purge Time (1)	Total Purge Time (Min)	Purge Rate (GPM)	Observations: (Color, Turbidity, Sheen, Odor, Pad Cond?)
MW-12	2	14.84	—	9.97	4.87	4	Dry at 0.75	10:51	10:52	1		Slight odor
MW-13	2	14.83	—	11.15	3.68	3	Dry at 0.75	10:56	10:57	1		Clear
MW-14	2	12.69	—	11.96	0.73	0.50	Dry at <0.25	11:06	11:07	1		Clear
					0.00	0.0				0.00	#DIV/0!	

Denote any necessary comments, conditions or repairs needed to wells in the- space provided below:
Five Well Volumes = 5 x Feet of Water in Well x 0.163 (2-inch) or 0.653 (4-inch).
* Monitoring well purged dry prior to sampling.
NMI - No measurable interface
(1) - Used miltary time with no collan. (example: 2:45 PM would be entered as 1425)

Well Sampling Form

Client: Speedway LLC	Location: Rossford	Date
Personnel: Cody Unfriedter	Project #:	Time Arrived:
PM: Bethany Weeder	Site #: 3642	Time Departed:
Weather: Cold -23°	# of Drums Generated Today: 1	Total # of Drums on site:

Field Filter Used: Yes or No

#10 WQ meter

Well ID	Well Diameter (IN)	Well Depth (FT)	Product Level (FT)	Static Water Level (FT)	Feet of Water in Well	Three Well Volumes (Gal)	Volume Purged (Gal)	Start Purge Time	End Purge Time	Reading	Temp	pH	Cond.	Turbidity Observation:	DTW before sampling	Sample Time
MW-12	2	14.91	-	10.68	4.23	2	Dry at 0.75	10:54	10:56	1st					13.81	11:55
										2nd						
										3rd						
MW-13	2	14.87	-	10.06	4.81	2.25	Dry at 0.75	11:23	11:25	1st					13.41	12:05
										2nd						
										3rd						
MW-14	2	12.78	-	11.41	1.37	0.50	Dry at 0.25	10:51	10:52	1st					11.39	12:30
										2nd						
										3rd						
										1st						
										2nd						
										3rd						
										1st						
										2nd						
										3rd						
										1st						
										2nd						
										3rd						
										1st						
										2nd						
										3rd						

Denote any necessary comments, conditions or repairs needed to wells in the- space provided below:
Three Well Volumes = 3 x Feet of Water in Well x 0.163 (2-inch) or 0.653 (4-inch) or 0.042 (1-inch).
* Monitoring well purged dry prior to sampling.
NMI - No measurable interface
(1) - Used miltary time with no colon. (example: 2:45 PM would be entered as 1425)

Speedway Store #3642

APPENDIX C
SOIL CLASSIFICATION FORM

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

SOIL CLASSIFICATION FORM 2017

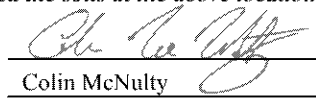
REPORT DATE: 1/13/2020 FACILITY ID#: 87000087

Major Divisions			Letter Symbol	Typical Description	Soil Class
Coarse Grained Soils More than 50% of material is retained on #200 Sieve	Gravel and Gravelly Soils More than 50% of Coarse Fraction Retained on No. 4 Sieve	Clean Gravels (Little or No Fines)	GW	Well-Graded Gravels, Gravel-Sand Mixtures, Little or No Fines	Class 1
			GP	Poorly-Graded Gravels, Gravel-Sand Mixtures, Little or No Fines	
		Gravels with Fines (Appreciable Amount of Fines)	GM	Silty Gravels, Gravel-Sand-Silt Mixtures	
			GC	Clayey Gravels, Gravel-Sand-Clay Mixtures	
	Sand and Sandy Soils More than 50% of Coarse Fraction Passes thru No. 4 Sieve	Clean Sand (Little or No Fines)	SW	Well-Graded Sands, Gravelly Sands, Little or No Fines	
			SP	Poorly-Graded Sands, Gravelly Sands, Little or No Fines	
		Sands with Fines (Appreciable Amount of Fines)	SM	Silty-Sands, Sand-Silt Mixtures	
			SC	Clayey Sands, Sand-Clay Mixtures	Class 2
Fine Grained Soils More than 50% of material passes thru #200 Sieve	Silts and Clays Liquid Limit<50		ML	Inorganic Silt and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sand or Clayey Silts with Slight Plasticity	
			CL	**Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays**	
			OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silts and Clays Liquid Limit>50		MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sand or Silty Soil	
			CH	Inorganic Clays of High Plasticity, Fat Clays	Class 3
			OH	Organic Clays of Medium to Plasticity, Organic Silts	
Highly Organic Soils			PT	Peat, Humus, Swamp Soil with High Organic Contents	

PATHWAY:	Soil to Indoor Air	GW to Indoor Air	Soil to DW Leaching	Soil to Non-DW Leaching
SYMBOL:	CL	CL	CL	CL

SITE ADDRESS: 939 Dixie Highway, Rossford, Ohio

I certify that I have inspected the soils at the above location and am qualified to make the determinations presented:

SIGNATURE: 

PRINT NAME: Colin McNulty **DATE:** 1/22/2020

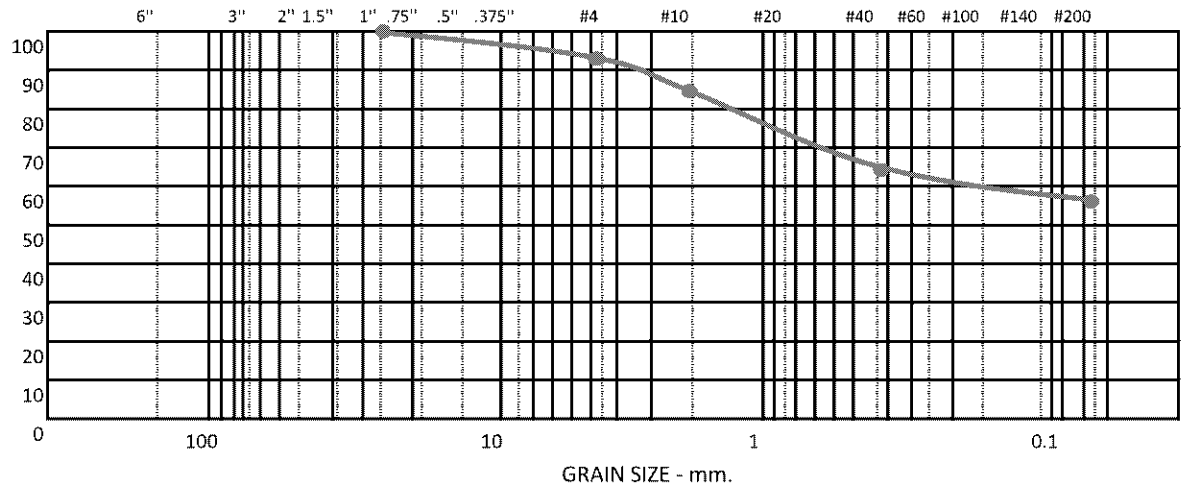
TITLE/COMPANY: Project Geologist/ATC Group Services LLC

ATC GROUP SERVICES LLC

Client: Speedway
Project: Speedway #3642

Project Number: 2401160314

Particle Size Distribution Report



% +3%	% Gravel	% SAND		% FINES
		Coarse	Fine	
0.0	14.5	22.1	4.8	58.6

SIEVE SIZE	SIEVE RANGE	PERCENT PASSING	SPEC
25	1 1/2" - 1"	100.0	
4.75	3/8" - #4	92.4	N/A
2	#4 - #10	85.5	N/A
0.425	Retained #40	63.4	N/A
0.075	#40 - #200	58.6	N/A

Soil Description

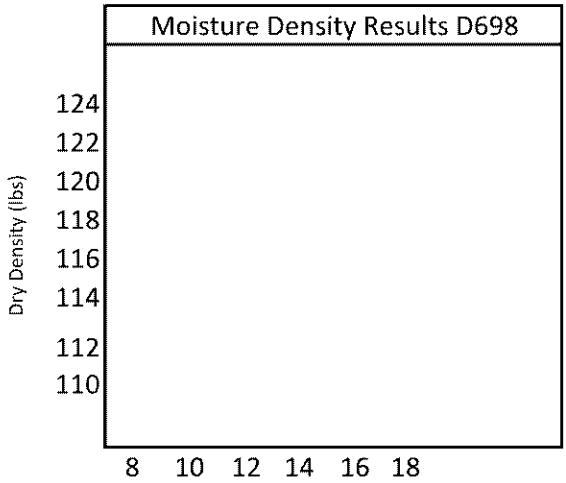
Gray, SILT AND CLAY, Some Coarse Sand, Little Gravel

Atterberg Limits

LL = 36 PL = 24 PI = 12

USCS = CL

Max. Dry Density	Optimum Moisture	CBR Value
NOT REQUESTED	NOT REQUESTED	NOT REQUESTED



Source of Sample: Grab Sample

Tested By: Jeff Strobelt Checked By: Richard Sullivan

8100 Snowville Road, Brecksville, Ohio 44141 tel: 440-838-7177 fax: 440-838-7181 www.atcassociates.com

Speedway Store #3642

APPENDIX D
LABORATORY ANALYTICAL REPORT

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 20, 2020

Bethany Weeder
ATC Group Services
8100 Snowville Road
Brecksville, OH 44141

RE: Project: C210003642 COC 52508
Pace Project No.: 40201895

Dear Bethany Weeder:
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: C210003642 COC 52508
Pace Project No.: 40201895

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40201895001	**MW-12(4-6)**	Solid	01/08/20 10:30	01/13/20 09:40
40201895002	**MW-12(8-10)**	Solid	01/08/20 10:50	01/13/20 09:40
40201895003	**MW-13(2-4)**	Solid	01/08/20 15:00	01/13/20 09:40
40201895004	**MW-13(6-8)**	Solid	01/08/20 15:10	01/13/20 09:40
40201895005	**MW-14(2-4)**	Solid	01/09/20 10:00	01/13/20 09:40
40201895006	**MW-14(6-8)**	Solid	01/09/20 10:10	01/13/20 09:40

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SAMPLE ANALYTE COUNT

Project: C210003642 COC 52508
Pace Project No.: 40201895

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40201895001	**MW-12(4-6)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40201895002	**MW-12(8-10)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40201895003	**MW-13(2-4)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	HNW	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40201895004	**MW-13(6-8)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	HNW	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40201895005	**MW-14(2-4)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	HNW	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40201895006	**MW-14(6-8)**	EPA 8015D Modified	ALD	2	PASI-G
		EPA 8260	HNW	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

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ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-12(4-6) **Lab ID: 40201895001** Collected: 01/08/20 10:30 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**931**	mg/kg	96.7	30.8	8	01/17/20 07:35	01/17/20 15:04		
Surrogates									
a,a,a-Trifluorotoluene (S)	137	%	62-145		8	01/17/20 07:35	01/17/20 15:04	98-08-8	S4
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**2.1**	mg/kg	0.63	0.19	12.5	01/16/20 08:30	01/16/20 18:26	71-43-2	M1,R1
1,2-Dibromoethane (EDB)	**<0.26**	mg/kg	0.86	0.26	12.5	01/16/20 08:30	01/16/20 18:26	106-93-4	M1
1,2-Dichloroethane	**<0.21**	mg/kg	0.76	0.21	12.5	01/16/20 08:30	01/16/20 18:26	107-06-2	
Ethylbenzene	**17.7**	mg/kg	0.76	0.22	12.5	01/16/20 08:30	01/16/20 18:26	100-41-4	M1,R1
Methyl-tert-butyl ether	**0.31J**	mg/kg	0.82	0.24	12.5	01/16/20 08:30	01/16/20 18:26	1634-04-4	
Naphthalene	**18.2**	mg/kg	1.4	0.41	12.5	01/16/20 08:30	01/16/20 18:26	91-20-3	
Toluene	**0.37J**	mg/kg	0.76	0.20	12.5	01/16/20 08:30	01/16/20 18:26	108-88-3	
1,2,4-Trimethylbenzene	**102**	mg/kg	0.91	0.27	12.5	01/16/20 08:30	01/16/20 18:26	95-63-6	
Xylene (Total)	**71.6**	mg/kg	2.5	0.76	12.5	01/16/20 08:30	01/16/20 18:26	1330-20-7	MS,RS
Surrogates									
Dibromofluoromethane (S)	0	%	57-146		12.5	01/16/20 08:30	01/16/20 18:26	1868-53-7	S4
Toluene-d8 (S)	0	%	64-134		12.5	01/16/20 08:30	01/16/20 18:26	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	54-126		12.5	01/16/20 08:30	01/16/20 18:26	460-00-4	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.3**	%	0.10	0.10	1		01/13/20 14:51		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-12(8-10) **Lab ID: 40201895002** Collected: 01/08/20 10:50 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**2690**	mg/kg	247	78.5	20	01/17/20 07:35	01/17/20 15:29		
Surrogates									
a,a,a-Trifluorotoluene (S)	188	%	62-145		20	01/17/20 07:35	01/17/20 15:29	98-08-8	S4
8260 MSV 5035 Med Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**2.6**	mg/kg	1.0	0.31	20	01/16/20 08:30	01/16/20 20:21	71-43-2	
1,2-Dibromoethane (EDB)	**<0.42**	mg/kg	1.4	0.42	20	01/16/20 08:30	01/16/20 20:21	106-93-4	
1,2-Dichloroethane	**<0.34**	mg/kg	1.2	0.34	20	01/16/20 08:30	01/16/20 20:21	107-06-2	
Ethylbenzene	**22.5**	mg/kg	1.2	0.36	20	01/16/20 08:30	01/16/20 20:21	100-41-4	
Methyl-tert-butyl ether	**<0.40**	mg/kg	1.3	0.40	20	01/16/20 08:30	01/16/20 20:21	1634-04-4	
Naphthalene	**13.2**	mg/kg	2.2	0.67	20	01/16/20 08:30	01/16/20 20:21	91-20-3	
Toluene	**<0.32**	mg/kg	1.2	0.32	20	01/16/20 08:30	01/16/20 20:21	108-88-3	
1,2,4-Trimethylbenzene	**111**	mg/kg	1.5	0.45	20	01/16/20 08:30	01/16/20 20:21	95-63-6	
Xylene (Total)	**53.9**	mg/kg	4.1	1.2	20	01/16/20 08:30	01/16/20 20:21	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	0	%	57-146		20	01/16/20 08:30	01/16/20 20:21	1868-53-7	S4
Toluene-d8 (S)	0	%	64-134		20	01/16/20 08:30	01/16/20 20:21	2037-26-5	S4
4-Bromofluorobenzene (S)	0	%	54-126		20	01/16/20 08:30	01/16/20 20:21	460-00-4	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.0**	%	0.10	0.10	1		01/13/20 14:51		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-13(2-4) **Lab ID: 40201895003** Collected: 01/08/20 15:00 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**19.0**	mg/kg	11.9	3.8	1	01/17/20 07:35	01/17/20 10:22		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	62-145		1	01/17/20 07:35	01/17/20 10:22	98-08-8	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 8260								
Benzene	**0.0071J**	mg/kg	0.011	0.0032	1	01/16/20 05:00	01/16/20 13:07	71-43-2	
1,2-Dibromoethane (EDB)	**<0.00042**	mg/kg	0.0014	0.00042	1	01/16/20 05:00	01/16/20 13:07	106-93-4	
1,2-Dichloroethane	**<0.00048**	mg/kg	0.0016	0.00048	1	01/16/20 05:00	01/16/20 13:07	107-06-2	
Ethylbenzene	**<0.0041**	mg/kg	0.014	0.0041	1	01/16/20 05:00	01/16/20 13:07	100-41-4	
Methyl-tert-butyl ether	**0.0063J**	mg/kg	0.016	0.0049	1	01/16/20 05:00	01/16/20 13:07	1634-04-4	
Naphthalene	**<0.0049**	mg/kg	0.016	0.0049	1	01/16/20 05:00	01/16/20 13:07	91-20-3	
Toluene	**<0.0037**	mg/kg	0.012	0.0037	1	01/16/20 05:00	01/16/20 13:07	108-88-3	
1,2,4-Trimethylbenzene	**0.017**	mg/kg	0.011	0.0033	1	01/16/20 05:00	01/16/20 13:07	95-63-6	
Xylene (Total)	**0.030J**	mg/kg	0.034	0.010	1	01/16/20 05:00	01/16/20 13:07	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95	%	73-142		1	01/16/20 05:00	01/16/20 13:07	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1	01/16/20 05:00	01/16/20 13:07	2037-26-5	
4-Bromofluorobenzene (S)	95	%	68-130		1	01/16/20 05:00	01/16/20 13:07	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		01/13/20 14:51		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-13(6-8) **Lab ID: 40201895004** Collected: 01/08/20 15:10 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**<3.7**	mg/kg	11.6	3.7	1	01/17/20 07:35	01/17/20 10:48		1q
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%	62-145		1	01/17/20 07:35	01/17/20 10:48	98-08-8	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 8260								
Benzene	**0.0081J**	mg/kg	0.010	0.0031	1	01/16/20 05:00	01/16/20 13:31	71-43-2	
1,2-Dibromoethane (EDB)	**<0.00040**	mg/kg	0.0013	0.00040	1	01/16/20 05:00	01/16/20 13:31	106-93-4	
1,2-Dichloroethane	**<0.00047**	mg/kg	0.0016	0.00047	1	01/16/20 05:00	01/16/20 13:31	107-06-2	
Ethylbenzene	**<0.0040**	mg/kg	0.013	0.0040	1	01/16/20 05:00	01/16/20 13:31	100-41-4	
Methyl-tert-butyl ether	**0.0055J**	mg/kg	0.016	0.0048	1	01/16/20 05:00	01/16/20 13:31	1634-04-4	
Naphthalene	**<0.0047**	mg/kg	0.016	0.0047	1	01/16/20 05:00	01/16/20 13:31	91-20-3	
Toluene	**<0.0036**	mg/kg	0.012	0.0036	1	01/16/20 05:00	01/16/20 13:31	108-88-3	
1,2,4-Trimethylbenzene	**<0.0032**	mg/kg	0.011	0.0032	1	01/16/20 05:00	01/16/20 13:31	95-63-6	
Xylene (Total)	**<0.010**	mg/kg	0.033	0.010	1	01/16/20 05:00	01/16/20 13:31	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	73-142		1	01/16/20 05:00	01/16/20 13:31	1868-53-7	2q
Toluene-d8 (S)	97	%	70-130		1	01/16/20 05:00	01/16/20 13:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	68-130		1	01/16/20 05:00	01/16/20 13:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.6**	%	0.10	0.10	1		01/13/20 14:51		

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-14(2-4) **Lab ID: 40201895005** Collected: 01/09/20 10:00 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**<3.9**	mg/kg	12.2	3.9	1	01/17/20 07:35	01/17/20 11:13		1q
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	62-145		1	01/17/20 07:35	01/17/20 11:13	98-08-8	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 8260								
Benzene	**0.011J**	mg/kg	0.011	0.0033	1	01/16/20 05:00	01/16/20 13:54	71-43-2	
1,2-Dibromoethane (EDB)	**<0.00043**	mg/kg	0.0014	0.00043	1	01/16/20 05:00	01/16/20 13:54	106-93-4	
1,2-Dichloroethane	**<0.00050**	mg/kg	0.0017	0.00050	1	01/16/20 05:00	01/16/20 13:54	107-06-2	
Ethylbenzene	**<0.0043**	mg/kg	0.014	0.0043	1	01/16/20 05:00	01/16/20 13:54	100-41-4	
Methyl-tert-butyl ether	**<0.0051**	mg/kg	0.017	0.0051	1	01/16/20 05:00	01/16/20 13:54	1634-04-4	
Naphthalene	**<0.0050**	mg/kg	0.017	0.0050	1	01/16/20 05:00	01/16/20 13:54	91-20-3	
Toluene	**<0.0038**	mg/kg	0.013	0.0038	1	01/16/20 05:00	01/16/20 13:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.0034**	mg/kg	0.011	0.0034	1	01/16/20 05:00	01/16/20 13:54	95-63-6	
Xylene (Total)	**<0.011**	mg/kg	0.035	0.011	1	01/16/20 05:00	01/16/20 13:54	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	93	%	73-142		1	01/16/20 05:00	01/16/20 13:54	1868-53-7	2q
Toluene-d8 (S)	97	%	70-130		1	01/16/20 05:00	01/16/20 13:54	2037-26-5	
4-Bromofluorobenzene (S)	92	%	68-130		1	01/16/20 05:00	01/16/20 13:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.0**	%	0.10	0.10	1		01/13/20 14:52		

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ANALYTICAL RESULTS

Project: C210003642 COC 52508
Pace Project No.: 40201895

Sample: MW-14(6-8) **Lab ID: 40201895006** Collected: 01/09/20 10:10 Received: 01/13/20 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 8015D Modified Preparation Method: EPA 5035A/5030B								
TPH (C06-C12)	**<4.1**	mg/kg	13.0	4.1	1	01/17/20 07:35	01/17/20 11:39		1q
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	62-145		1	01/17/20 07:35	01/17/20 11:39	98-08-8	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 8260								
Benzene	**0.0083J**	mg/kg	0.012	0.0035	1	01/16/20 05:00	01/16/20 14:17	71-43-2	
1,2-Dibromoethane (EDB)	**<0.00046**	mg/kg	0.0015	0.00046	1	01/16/20 05:00	01/16/20 14:17	106-93-4	
1,2-Dichloroethane	**<0.00053**	mg/kg	0.0018	0.00053	1	01/16/20 05:00	01/16/20 14:17	107-06-2	
Ethylbenzene	**<0.0045**	mg/kg	0.015	0.0045	1	01/16/20 05:00	01/16/20 14:17	100-41-4	
Methyl-tert-butyl ether	**0.0064J**	mg/kg	0.018	0.0054	1	01/16/20 05:00	01/16/20 14:17	1634-04-4	
Naphthalene	**<0.0054**	mg/kg	0.018	0.0054	1	01/16/20 05:00	01/16/20 14:17	91-20-3	
Toluene	**<0.0040**	mg/kg	0.013	0.0040	1	01/16/20 05:00	01/16/20 14:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.0037**	mg/kg	0.012	0.0037	1	01/16/20 05:00	01/16/20 14:17	95-63-6	
Xylene (Total)	**<0.011**	mg/kg	0.038	0.011	1	01/16/20 05:00	01/16/20 14:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	93	%	73-142		1	01/16/20 05:00	01/16/20 14:17	1868-53-7	2q
Toluene-d8 (S)	100	%	70-130		1	01/16/20 05:00	01/16/20 14:17	2037-26-5	
4-Bromofluorobenzene (S)	94	%	68-130		1	01/16/20 05:00	01/16/20 14:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.2**	%	0.10	0.10	1		01/13/20 14:52		

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

QC Batch: 345755 Analysis Method: EPA 8015D Modified
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 40201895001, 40201895002, 40201895003, 40201895004, 40201895005, 40201895006

METHOD BLANK: 2005573 Matrix: Solid
Associated Lab Samples: 40201895001, 40201895002, 40201895003, 40201895004, 40201895005, 40201895006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	mg/kg	<3.2	10.0	3.2	01/17/20 08:30	
a,a,a-Trifluorotoluene (S)	%	108	62-145		01/17/20 08:30	

LABORATORY CONTROL SAMPLE & LCSD: 2005574 2005575

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (C06-C12)	mg/kg	50	55.4	55.1	111	110	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				107	107	62-145			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005576 2005577

Parameter	Units	40201896004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH (C06-C12)	mg/kg	4.5J	58.4	58.4	52.5	54.1	82	85	68-120	3	20	
a,a,a-Trifluorotoluene (S)	%						96	94	62-145			

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

QC Batch: 345778 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low
Associated Lab Samples: 40201895003, 40201895004, 40201895005, 40201895006

METHOD BLANK: 2005873 Matrix: Solid
Associated Lab Samples: 40201895003, 40201895004, 40201895005, 40201895006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	<0.0028	0.0094	0.0028	01/16/20 09:40	
1,2-Dibromoethane (EDB)	mg/kg	<0.00035	0.0012	0.00035	01/16/20 09:40	
1,2-Dichloroethane	mg/kg	<0.00041	0.0014	0.00041	01/16/20 09:40	
Benzene	mg/kg	<0.0027	0.0090	0.0027	01/16/20 09:40	
Ethylbenzene	mg/kg	<0.0035	0.012	0.0035	01/16/20 09:40	
Methyl-tert-butyl ether	mg/kg	<0.0042	0.014	0.0042	01/16/20 09:40	
Naphthalene	mg/kg	<0.0041	0.014	0.0041	01/16/20 09:40	
Toluene	mg/kg	<0.0031	0.010	0.0031	01/16/20 09:40	
Xylene (Total)	mg/kg	<0.0087	0.029	0.0087	01/16/20 09:40	
4-Bromofluorobenzene (S)	%	104	68-130		01/16/20 09:40	
Dibromofluoromethane (S)	%	99	73-142		01/16/20 09:40	
Toluene-d8 (S)	%	105	70-130		01/16/20 09:40	

LABORATORY CONTROL SAMPLE & LCSD: 2005874 2005875

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	0.05	0.045	0.045	91	90	70-130	1	24	
1,2-Dichloroethane	mg/kg	0.05	0.045	0.046	90	91	64-135	1	24	
Benzene	mg/kg	0.05	0.044	0.044	89	89	70-130	0	24	
Ethylbenzene	mg/kg	0.05	0.043	0.044	85	87	80-121	2	24	
Methyl-tert-butyl ether	mg/kg	0.05	0.042	0.041	84	83	49-140	2	25	
Toluene	mg/kg	0.05	0.043	0.045	85	90	79-120	5	22	
Xylene (Total)	mg/kg	0.15	0.13	0.13	83	88	70-130	6	22	
4-Bromofluorobenzene (S)	%				95	99	68-130			
Dibromofluoromethane (S)	%				91	101	73-142			
Toluene-d8 (S)	%				105	100	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005876 2005877

Parameter	Units	40201896004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	<0.00041	0.058	0.058	0.045	0.056	77	95	52-133	21	28	
1,2-Dichloroethane	mg/kg	<0.00047	0.058	0.058	0.049	0.057	84	97	49-135	15	41	
Benzene	mg/kg	<0.0032	0.058	0.058	0.050	0.056	85	95	51-136	11	37	
Ethylbenzene	mg/kg	<0.0041	0.058	0.058	0.049	0.058	84	99	48-144	16	50	
Methyl-tert-butyl ether	mg/kg	<0.0049	0.058	0.058	0.045	0.055	77	93	23-163	19	50	
Toluene	mg/kg	<0.0036	0.058	0.058	0.051	0.057	87	97	52-143	11	42	
Xylene (Total)	mg/kg	<0.010	0.18	0.18	0.15	0.18	83	100	33-156	19	50	

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005876 2005877

Parameter	Units	40201896004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						95	97	68-130			
Dibromofluoromethane (S)	%						98	100	73-142			
Toluene-d8 (S)	%						101	103	70-130			

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

QC Batch: 345671 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5035 Med Prep
Associated Lab Samples: 40201895001, 40201895002

METHOD BLANK: 2004938 Matrix: Solid
Associated Lab Samples: 40201895001, 40201895002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	<0.018	0.060	0.018	01/16/20 10:22	
1,2-Dibromoethane (EDB)	mg/kg	<0.017	0.057	0.017	01/16/20 10:22	
1,2-Dichloroethane	mg/kg	<0.014	0.050	0.014	01/16/20 10:22	
Benzene	mg/kg	<0.012	0.042	0.012	01/16/20 10:22	
Ethylbenzene	mg/kg	<0.015	0.050	0.015	01/16/20 10:22	
Methyl-tert-butyl ether	mg/kg	<0.016	0.054	0.016	01/16/20 10:22	
Naphthalene	mg/kg	<0.027	0.091	0.027	01/16/20 10:22	
Toluene	mg/kg	<0.013	0.050	0.013	01/16/20 10:22	
Xylene (Total)	mg/kg	<0.051	0.17	0.051	01/16/20 10:22	
4-Bromofluorobenzene (S)	%	87	54-126		01/16/20 10:22	
Dibromofluoromethane (S)	%	88	57-146		01/16/20 10:22	
Toluene-d8 (S)	%	94	64-134		01/16/20 10:22	

LABORATORY CONTROL SAMPLE: 2004939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.6	104	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.2	88	70-134	
Benzene	mg/kg	2.5	2.3	93	70-130	
Ethylbenzene	mg/kg	2.5	2.5	99	82-122	
Methyl-tert-butyl ether	mg/kg	2.5	2.5	100	70-130	
Toluene	mg/kg	2.5	2.5	100	80-121	
Xylene (Total)	mg/kg	7.5	7.5	101	70-130	
4-Bromofluorobenzene (S)	%			97	54-126	
Dibromofluoromethane (S)	%			97	57-146	
Toluene-d8 (S)	%			99	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005012 2005013

Parameter	Units	40201895001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	<0.26	1.5	1.5	1.0	1.2	69	82	70-130	17	20	M1
1,2-Dichloroethane	mg/kg	<0.21	1.5	1.5	1.2	1.2	79	76	70-136	4	20	
Benzene	mg/kg	2.1	1.5	1.5	2.5	3.1	22	64	70-130	23	20	M1,R1
Ethylbenzene	mg/kg	17.7	1.5	1.5	12.0	20.3	-374	176	80-122	51	20	M1,R1
Methyl-tert-butyl ether	mg/kg	0.31J	1.5	1.5	1.7	1.6	90	88	70-130	2	20	
Toluene	mg/kg	0.37J	1.5	1.5	1.6	1.6	81	84	80-121	3	20	
Xylene (Total)	mg/kg	71.6	4.6	4.6	45.9	70.3	-566	-28	70-130	42	20	MS,RS

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005012 2005013

Parameter	Units	40201895001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						0	0	54-126			S4
Dibromofluoromethane (S)	%						0	0	57-146			S4
Toluene-d8 (S)	%						0	0	64-134			S4

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QUALITY CONTROL DATA

Project: C210003642 COC 52508
Pace Project No.: 40201895

QC Batch: 345411 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40201895001, 40201895002, 40201895003, 40201895004, 40201895005, 40201895006

SAMPLE DUPLICATE: 2003613

Parameter	Units	40201878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.4	8.3	1	10	

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QUALIFIERS

Project: C210003642 COC 52508
Pace Project No.: 40201895

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory.
2q	Subsampled from ZHE with headspace.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: C210003642 COC 52508
Pace Project No.: 40201895

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40201895001	**MW-12(4-6)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895002	**MW-12(8-10)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895003	**MW-13(2-4)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895004	**MW-13(6-8)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895005	**MW-14(2-4)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895006	**MW-14(6-8)**	EPA 5035A/5030B	345755	EPA 8015D Modified	345785
40201895003	**MW-13(2-4)**	EPA 8260	345778	EPA 8260	345783
40201895004	**MW-13(6-8)**	EPA 8260	345778	EPA 8260	345783
40201895005	**MW-14(2-4)**	EPA 8260	345778	EPA 8260	345783
40201895006	**MW-14(6-8)**	EPA 8260	345778	EPA 8260	345783
40201895001	**MW-12(4-6)**	EPA 5035/5030B	345671	EPA 8260	345678
40201895002	**MW-12(8-10)**	EPA 5035/5030B	345671	EPA 8260	345678
40201895001	**MW-12(4-6)**	ASTM D2974-87	345411		
40201895002	**MW-12(8-10)**	ASTM D2974-87	345411		
40201895003	**MW-13(2-4)**	ASTM D2974-87	345411		
40201895004	**MW-13(6-8)**	ASTM D2974-87	345411		
40201895005	**MW-14(2-4)**	ASTM D2974-87	345411		
40201895006	**MW-14(6-8)**	ASTM D2974-87	345411		

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40201895

Page 1 of 3

Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-12(4-6)	01/08/2020 10:30am	S	3	4 OZ	NONE	2017 VOC Adders	8260	001 MH
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-12(8-10)	01/08/2020 10:50am	S	3	4 OZ	NONE	2017 VOC Adders	8260	002
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-13(2-4)	01/08/2020 03:00pm	S	3	4 OZ	NONE	2017 VOC Adders	8260	003
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by: MH	Date 1/10/20	Time 0900	Received by: PJS / PACE	Date 1/10/20	Time 0900
Relinquished by: PJS / PACE	Date 1/10/20	Time 0900	Received by/laboratory: FEDEX / PJS	Date 1/10/20	Time 0900
Special Reporting Requirements:			Lab Notes:	Temp 1	

Fed Ex 1-13-20 0940 Susan Kilgore Pace 1-13 20 0940

40901895

Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-13(6-8)	01/08/2020 03:10pm	S	3	4 OZ	NONE	2017 VOC Adders	8260	004
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-14(2-4)	01/09/2020 10:00am	S	3	4 OZ	NONE	2017 VOC Adders	8260	005
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-14(6-8)	01/09/2020 10:10am	S	3	4 OZ	NONE	2017 VOC Adders	8260	006
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by laboratory:	Date	Time
Special Reporting Requirements:			Lab Notes:	Temp	

Fed Ex 1-13-20 0940 Susan Kilgore 1-13-20 0940

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Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks

Relinquished by: Matt Hummel	Date 1/10/20	Time 0900	Received by: PACE	Date 1/10/20	Time 0900		
Relinquished by: PACE	Date 1/10/20	Time 0900	Received by laboratory: FEDEX	Date 1/10/20	Time 0900		
Special Reporting Requirements:			Lab Notes:	Temp			

Fed Ex 1-13-20 0940 Susan Kilfoy Pace 1-13-20 0940

Chain of Custody Analysis to be Performed
COC ID # 52508

Chain-of-Custody-Record
Printed: 02/25/2020

Analysis Name: 2017 VOC Adders (Soil)

Analysis Description / Method: 2017 VOC Adders / 8260

Container Type / Preservative: 4 OZ / NONE

Analytes: 1,2,4-Trimethylbenzene mg/Kg, 1,2-Dibromoethane mg/Kg, 1,2-Dichloroethane mg/Kg, Naphthalene mg/Kg

Analysis Name: 8015 TPH (C6 - C12) (Soil)

Analysis Description / Method: Total Petroleum Hydrocarbons (C6 - C12) / 8015

Container Type / Preservative: 4 OZ / NONE

Analytes: TPH GRO (C6-C12) mg/Kg

Analysis Name: 8260 BTEX and MTBE (Soil)

Analysis Description / Method: Benzene, Toluene, Ethylbenzene, o m and p Xylenes, and Methyl tertiary-butyl ether (MTBE) / 8260

Container Type / Preservative: 4 OZ / NONE

Analytes: Benzene mg/Kg, Ethylbenzene mg/Kg, Methyl tert butyl ether mg/Kg, Toluene mg/Kg, Total Xylenes mg/Kg

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ATC Project # 46201895

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

11/13/20 SAU

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40201895

Client Name: ATC

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: 7795 7570 9480

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 63 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: -.5 /Corr: 1

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 1-13-20
Initials: [illegible]

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. Pg 1 only 1-13-20 SW
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: UW **Date:** 1/13/20

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 30, 2020

Bethany Weeder
ATC Group Services
8100 Snowville Road
Brecksville, OH 44141

RE: Project: C210003642 COC 52578
Pace Project No.: 40202445

Dear Bethany Weeder:
Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #: E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #: 98019
Michigan Department of Environmental Quality, Laboratory #9050
Ohio VAP Certification #: CL0065
Oklahoma Certification #: 9204
Texas Certification #: T104704355
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: C210003642 COC 52578
Pace Project No.: 40202445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40202445001	**DUP**	Water	01/22/20 08:00	01/24/20 09:35
40202445002	**MW-12**	Water	01/22/20 11:55	01/24/20 09:35
40202445003	**MW-13**	Water	01/22/20 12:05	01/24/20 09:35
40202445004	**MW-14**	Water	01/22/20 12:30	01/24/20 09:35
40202445005	**TRIP BLANK**	Water	01/22/20 12:00	01/24/20 09:35

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SAMPLE ANALYTE COUNT

Project: C210003642 COC 52578
Pace Project No.: 40202445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40202445001	**DUP**	EPA 8260	LAP	8	PASI-G
40202445002	**MW-12**	EPA 8011	RSF	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40202445003	**MW-13**	EPA 8011	RSF	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40202445004	**MW-14**	EPA 8011	RSF	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40202445005	**TRIP BLANK**	EPA 8260	LAP	8	PASI-G

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ANALYTICAL RESULTS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Sample: DUP **Lab ID: 40202445001** Collected: 01/22/20 08:00 Received: 01/24/20 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.0011**	mg/L	0.0010	0.00025	1		01/28/20 19:44	71-43-2	
Ethylbenzene	**0.00027J**	mg/L	0.0010	0.00022	1		01/28/20 19:44	100-41-4	
Methyl-tert-butyl ether	**0.037**	mg/L	0.0042	0.0012	1		01/28/20 19:44	1634-04-4	
Toluene	**0.00021J**	mg/L	0.0050	0.00017	1		01/28/20 19:44	108-88-3	
Xylene (Total)	**<0.0015**	mg/L	0.0030	0.0015	1		01/28/20 19:44	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		01/28/20 19:44	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		01/28/20 19:44	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		1		01/28/20 19:44	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Sample: MW-12 **Lab ID: 40202445002** Collected: 01/22/20 11:55 Received: 01/24/20 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0053**	ug/L	0.036	0.0053	1	01/29/20 09:00	01/29/20 15:34	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	50-150		1	01/29/20 09:00	01/29/20 15:34	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1.8**	mg/L	0.020	0.0049	20		01/29/20 00:02	71-43-2	
1,2-Dichloroethane	**<0.0056**	mg/L	0.020	0.0056	20		01/29/20 00:02	107-06-2	
Ethylbenzene	**0.055**	mg/L	0.020	0.0044	20		01/29/20 00:02	100-41-4	
Methyl-tert-butyl ether	**2.3**	mg/L	0.083	0.025	20		01/29/20 00:02	1634-04-4	
Naphthalene	**0.11**	mg/L	0.10	0.024	20		01/29/20 00:02	91-20-3	
Toluene	**0.026J**	mg/L	0.10	0.0034	20		01/29/20 00:02	108-88-3	
1,2,4-Trimethylbenzene	**0.69**	mg/L	0.056	0.017	20		01/29/20 00:02	95-63-6	
Xylene (Total)	**1.7**	mg/L	0.060	0.030	20		01/29/20 00:02	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		20		01/29/20 00:02	1868-53-7	
Toluene-d8 (S)	89	%	70-130		20		01/29/20 00:02	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		20		01/29/20 00:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Sample: MW-13 **Lab ID: 40202445003** Collected: 01/22/20 12:05 Received: 01/24/20 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0053**	ug/L	0.036	0.0053	1	01/29/20 09:00	01/29/20 15:55	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	87	%.	50-150		1	01/29/20 09:00	01/29/20 15:55	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.0015**	mg/L	0.0010	0.00025	1		01/28/20 20:05	71-43-2	
1,2-Dichloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		01/28/20 20:05	107-06-2	
Ethylbenzene	**0.00033J**	mg/L	0.0010	0.00022	1		01/28/20 20:05	100-41-4	
Methyl-tert-butyl ether	**0.037**	mg/L	0.0042	0.0012	1		01/28/20 20:05	1634-04-4	
Naphthalene	**<0.0012**	mg/L	0.0050	0.0012	1		01/28/20 20:05	91-20-3	
Toluene	**0.00029J**	mg/L	0.0050	0.00017	1		01/28/20 20:05	108-88-3	
1,2,4-Trimethylbenzene	**<0.00084**	mg/L	0.0028	0.00084	1		01/28/20 20:05	95-63-6	
Xylene (Total)	**<0.0015**	mg/L	0.0030	0.0015	1		01/28/20 20:05	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		01/28/20 20:05	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		01/28/20 20:05	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		01/28/20 20:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Sample: MW-14 **Lab ID: 40202445004** Collected: 01/22/20 12:30 Received: 01/24/20 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0053**	ug/L	0.036	0.0053	1	01/29/20 09:00	01/29/20 16:15	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	79	%.	50-150		1	01/29/20 09:00	01/29/20 16:15	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00025**	mg/L	0.0010	0.00025	1		01/28/20 20:27	71-43-2	
1,2-Dichloroethane	**<0.00028**	mg/L	0.0010	0.00028	1		01/28/20 20:27	107-06-2	
Ethylbenzene	**<0.00022**	mg/L	0.0010	0.00022	1		01/28/20 20:27	100-41-4	
Methyl-tert-butyl ether	**<0.0012**	mg/L	0.0042	0.0012	1		01/28/20 20:27	1634-04-4	
Naphthalene	**<0.0012**	mg/L	0.0050	0.0012	1		01/28/20 20:27	91-20-3	
Toluene	**<0.00017**	mg/L	0.0050	0.00017	1		01/28/20 20:27	108-88-3	
1,2,4-Trimethylbenzene	**<0.00084**	mg/L	0.0028	0.00084	1		01/28/20 20:27	95-63-6	
Xylene (Total)	**<0.0015**	mg/L	0.0030	0.0015	1		01/28/20 20:27	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		01/28/20 20:27	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		01/28/20 20:27	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		01/28/20 20:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: C210003642 COC 52578
Pace Project No.: 40202445

Sample: TRIP BLANK **Lab ID: 40202445005** Collected: 01/22/20 12:00 Received: 01/24/20 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.00025**	mg/L	0.0010	0.00025	1		01/28/20 18:39	71-43-2	
Ethylbenzene	**<0.00022**	mg/L	0.0010	0.00022	1		01/28/20 18:39	100-41-4	
Methyl-tert-butyl ether	**<0.0012**	mg/L	0.0042	0.0012	1		01/28/20 18:39	1634-04-4	
Toluene	**<0.00017**	mg/L	0.0050	0.00017	1		01/28/20 18:39	108-88-3	
Xylene (Total)	**<0.0015**	mg/L	0.0030	0.0015	1		01/28/20 18:39	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		01/28/20 18:39	1868-53-7	HS
Toluene-d8 (S)	88	%	70-130		1		01/28/20 18:39	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		01/28/20 18:39	460-00-4	

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QUALITY CONTROL DATA

Project: C210003642 COC 52578
Pace Project No.: 40202445

QC Batch: 544865 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 40202445002, 40202445003, 40202445004

METHOD BLANK: 2513267 Matrix: Water
Associated Lab Samples: 40202445002, 40202445003, 40202445004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	<0.0052	0.035	0.0052	01/29/20 13:08	
4-Bromofluorobenzene (S)	%.	82	50-150		01/29/20 13:08	

LABORATORY CONTROL SAMPLE: 2513268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.28	111	60-140	
4-Bromofluorobenzene (S)	%.			84	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513407 2513408

Parameter	Units	40202401001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.0053	0.25	0.26	0.16	0.17	65	66	60-140	4	20	
4-Bromofluorobenzene (S)	%.						73	81	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: C210003642 COC 52578
Pace Project No.: 40202445

QC Batch: 346323 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40202445001, 40202445002, 40202445003, 40202445004, 40202445005

METHOD BLANK: 2009108 Matrix: Water
Associated Lab Samples: 40202445001, 40202445002, 40202445003, 40202445004, 40202445005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/L	<0.00084	0.0028	0.00084	01/28/20 15:05	
1,2-Dichloroethane	mg/L	<0.00028	0.0010	0.00028	01/28/20 15:05	
Benzene	mg/L	<0.00025	0.0010	0.00025	01/28/20 15:05	
Ethylbenzene	mg/L	<0.00022	0.0010	0.00022	01/28/20 15:05	
Methyl-tert-butyl ether	mg/L	<0.0012	0.0042	0.0012	01/28/20 15:05	
Naphthalene	mg/L	<0.0012	0.0050	0.0012	01/28/20 15:05	
Toluene	mg/L	<0.00017	0.0050	0.00017	01/28/20 15:05	
Xylene (Total)	mg/L	<0.0015	0.0030	0.0015	01/28/20 15:05	
4-Bromofluorobenzene (S)	%	86	70-130		01/28/20 15:05	
Dibromofluoromethane (S)	%	100	70-130		01/28/20 15:05	
Toluene-d8 (S)	%	88	70-130		01/28/20 15:05	

LABORATORY CONTROL SAMPLE: 2009109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.05	0.054	109	75-140	
Benzene	mg/L	0.05	0.051	102	70-130	
Ethylbenzene	mg/L	0.05	0.051	103	80-124	
Methyl-tert-butyl ether	mg/L	0.05	0.050	101	54-137	
Toluene	mg/L	0.05	0.052	104	80-126	
Xylene (Total)	mg/L	0.15	0.16	110	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009189 2009190

Parameter	Units	40202404001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	mg/L	<0.28 ug/L	0.05	0.05	0.052	0.053	104	105	75-140	1	20	
Benzene	mg/L	<0.25 ug/L	0.05	0.05	0.050	0.050	99	100	70-130	1	20	
Ethylbenzene	mg/L	<0.22 ug/L	0.05	0.05	0.051	0.050	101	100	80-125	1	20	
Methyl-tert-butyl ether	mg/L	<1.2 ug/L	0.05	0.05	0.050	0.048	100	97	51-145	3	20	
Toluene	mg/L	0.96J ug/L	0.05	0.05	0.052	0.051	103	101	80-131	2	20	
Xylene (Total)	mg/L	<1.5 ug/L	0.15	0.15	0.16	0.16	108	107	70-130	1	20	
4-Bromofluorobenzene (S)	%						94	93	70-130			
Dibromofluoromethane (S)	%						99	100	70-130			
Toluene-d8 (S)	%						89	89	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALIFIERS

Project: C210003642 COC 52578
Pace Project No.: 40202445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: C210003642 COC 52578
Pace Project No.: 40202445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40202445002	**MW-12**	EPA 8011	544865	EPA 8011	545124
40202445003	**MW-13**	EPA 8011	544865	EPA 8011	545124
40202445004	**MW-14**	EPA 8011	544865	EPA 8011	545124
40202445001	**DUP**	EPA 8260	346323		
40202445002	**MW-12**	EPA 8260	346323		
40202445003	**MW-13**	EPA 8260	346323		
40202445004	**MW-14**	EPA 8260	346323		
40202445005	**TRIP BLANK**	EPA 8260	346323		

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40202445

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00052578

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Cody Unferdorfer		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
DUP	01/22/2020 08:00am	W	3	VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	001
MW-12	01/22/2020 11:55am	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	002
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
MW-13	01/22/2020 12:05pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	003
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
MW-14	01/22/2020 12:30pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	004
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
TRIP BLANK	01/22/2020 12:00pm	W	3	VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	005

4020245

Chain-of-Custody-Record

COC ID # 00052578

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Cody Unferdorfer		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks

Relinquished by: Cody Unferdorfer	Date 1/23/20	Time 1300	Received by: P/U PACE	Date 1/23/20	Time 1300
Relinquished by: P/U PACE	Date 1/23/20	Time 1300	Received by laboratory: FEDEX UPS	Date 1/23/20	Time 1300
Special Reporting Requirements:			Lab Notes:	Temp 0.5	

FEDEX 1/24/20 0935 Brandon Radke PACE 1/24/20 0935

4020245

Chain of Custody Analysis to be Performed
COC ID # 52578

Chain-of-Custody-Record
Printed: 03/08/2020

Analysis Name: 2017 VOC Adders 1 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 1 of 2 / 8260

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2,4-Trimethylbenzene ug/L, 1,2-Dichloroethane ug/L, Naphthalene ug/L

Analysis Name: 2017 VOC Adders 2 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 2 of 2 / 8011

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2-Dibromoethane ug/L

Analysis Name: 8260 BTEX and MTBE (Water)

Analysis Description / Method: Benzene, Toluene, Ethylbenzene, o m and p Xylenes, and Methyl tertiary-butyl ether (MTBE) / 8260

Container Type / Preservative: VOA - 40 MILL / HCL

Analytes: Benzene ug/L, Ethylbenzene ug/L, Methyl tert butyl ether ug/L, Toluene ug/L, Total Xylenes ug/L

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Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: AEL Project # 40202445

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		6															2.5 / 5 / 10
003																		6															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																1-24-20 BR																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40202445**

Client Name: AJC

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7486 4021 1456

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 96 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.0 /Corr: 0.5

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 1-25-20
Initials: BOL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☒Yes ☐No ☐N/A		8. 1-24-20 BOL Samples 002-009. 1-24-20 BOL
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: HW **Date:** 1/27/20

Speedway Store #3642

APPENDIX E
LABORATORY SUMMARY FORM

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: January 20, 2020 FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool		
List the cooler temperature upon receipt:	1.0 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☐	NA ☒
Were the soil sample containers filled?	Yes ☒	No ☐	NA ☐
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☐	No ☒
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☐	No ☒
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	☐ Other (list):

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager		

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: January 30, 2020 FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool, HCL		
List the cooler temperature upon receipt:	0.5 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☒	NA ☐
Were the soil sample containers filled?	Yes ☐	No ☐	NA ☒
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☒	No ☐
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	☐ Other (list):

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager		

Speedway Store #3642

APPENDIX F
CHAIN OF CUSTODY

40201895

Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-12(4-6)	01/08/2020 10:30am	S	3	4 OZ	NONE	2017 VOC Adders	8260	001 MH
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-12(8-10)	01/08/2020 10:50am	S	3	4 OZ	NONE	2017 VOC Adders	8260	002
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-13(2-4)	01/08/2020 03:00pm	S	3	4 OZ	NONE	2017 VOC Adders	8260	003
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by: MH	Date 1/10/20	Time 0900	Received by: PJS / PACE	Date 1/10/20	Time 0900
Relinquished by: PJS / PACE	Date 1/10/20	Time 0900	Received by laboratory: FEDEX / PJS	Date 1/10/20	Time 0900
Special Reporting Requirements:			Lab Notes:	Temp 1	

Fed Ex 1-13-20 0940 Susan Kilgore Pace 1-13 20 0940

40901895

Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-13(6-8)	01/08/2020 03:10pm	S	3	4 OZ	NONE	2017 VOC Adders	8260	004
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-14(2-4)	01/09/2020 10:00am	S	3	4 OZ	NONE	2017 VOC Adders	8260	005
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-14(6-8)	01/09/2020 10:10am	S	3	4 OZ	NONE	2017 VOC Adders	8260	006
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Relinquished by:	**Date**	**Time**	**Received by laboratory:**	**Date**	**Time**
Special Reporting Requirements:			**Lab Notes:**	**Temp**	

Fed Ex 1-13-20 0940 Susan Kilgore 1-13-20 0940

4200895

Chain-of-Custody-Record

COC ID # 00052508

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	matt hummel		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks

Relinquished by: [signature]	Date: 1/10/20	Time: 0900	Received by: [signature] / PACE	Date: 1/10/20	Time: 0900
Relinquished by: [signature] / PACE	Date: 1/10/20	Time: 0900	Received by laboratory: FEDEX / PACE	Date: 1/10/20	Time: 0900
Special Reporting Requirements:			Lab Notes:	Temp	

FedEx 1-13-20 0940 [signature] / Pace 1-13-20 0940

Chain of Custody Analysis to be Performed
COC ID # 52508

Chain-of-Custody-Record
Printed: 02/25/2020

Analysis Name: 2017 VOC Adders (Soil)

Analysis Description / Method: 2017 VOC Adders / 8260

Container Type / Preservative: 4 OZ / NONE

Analytes: 1,2,4-Trimethylbenzene mg/Kg, 1,2-Dibromoethane mg/Kg, 1,2-Dichloroethane mg/Kg, Naphthalene mg/Kg

Analysis Name: 8015 TPH (C6 - C12) (Soil)

Analysis Description / Method: Total Petroleum Hydrocarbons (C6 - C12) / 8015

Container Type / Preservative: 4 OZ / NONE

Analytes: TPH GRO (C6-C12) mg/Kg

Analysis Name: 8260 BTEX and MTBE (Soil)

Analysis Description / Method: Benzene, Toluene, Ethylbenzene, o m and p Xylenes, and Methyl tertiary-butyl ether (MTBE) / 8260

Container Type / Preservative: 4 OZ / NONE

Analytes: Benzene mg/Kg, Ethylbenzene mg/Kg, Methyl tert butyl ether mg/Kg, Toluene mg/Kg, Total Xylenes mg/Kg

Sample Preservation Receipt Form

Client Name: ATC Project # 46201895

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted)

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

11/13/20 SDW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40201895

Client Name: ATC

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: 7795 7570 9480

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 63 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: -.5 /Corr: 1

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 1-13-20
Initials: LS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. Pg 1 only 1-13-20 SW
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: UW **Date:** 1/13/20

40202445

Chain-of-Custody-Record

COC ID # 00052578

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

TURN AROUND TIME
STANDARD

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Cody Unferdorfer		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
DUP	01/22/2020 08:00am	W	3	VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	001
MW-12	01/22/2020 11:55am	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	002
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
MW-13	01/22/2020 12:05pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	003
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
MW-14	01/22/2020 12:30pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
				40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	004
				VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
TRIP BLANK	01/22/2020 12:00pm	W	3	VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	005

4020245

Chain-of-Custody-Record

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

COC ID # 00052578

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Cody Unferdorfer		
Shipped:	Pickup		
Tracking #:			

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks

Relinquished by: Cody Unferdorfer	Date 1/23/20	Time 1300	Received by: P/U PACE	Date 1/23/20	Time 1300
Relinquished by: P/U PACE	Date 1/23/20	Time 1300	Received by laboratory: FEDEX	Date 1/23/20	Time 1300

Special Reporting Requirements:

Lab Notes:

Temp: 0.5

FEDEX 1/24/20 0935 Kristin Radtke PACE 1/24/20 0935

4020245

Chain of Custody Analysis to be Performed
COC ID # 52578

Chain-of-Custody-Record
Printed: 03/08/2020

Analysis Name: 2017 VOC Adders 1 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 1 of 2 / 8260

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2,4-Trimethylbenzene ug/L, 1,2-Dichloroethane ug/L, Naphthalene ug/L

Analysis Name: 2017 VOC Adders 2 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 2 of 2 / 8011

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2-Dibromoethane ug/L

Analysis Name: 8260 BTEX and MTBE (Water)

Analysis Description / Method: Benzene, Toluene, Ethylbenzene, o m and p Xylenes, and Methyl tertiary-butyl ether (MTBE) / 8260

Container Type / Preservative: VOA - 40 MILL / HCL

Analytes: Benzene ug/L, Ethylbenzene ug/L, Methyl tert butyl ether ug/L, Toluene ug/L, Total Xylenes ug/L

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: APC Project # 40202445

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		6															2.5 / 5 / 10
003																		6															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

1-24-20 BR

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): □Yes ☒No □N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40202445**

Client Name: AJC

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7486 4021 1456

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 96 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0.0 /Corr: 0.5

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 1-25-20
Initials: BOL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☒Yes ☐No ☐N/A		8. 1-24-20 BOL Samples 002-009. 1-24-20 BOL
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: HW **Date:** 1/27/20

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 08, 2022

Bethany Weeder
Atlas
8100 Snowville Road
Brecksville, OH 44141

RE: Project: SPEEDWAY 3642
Pace Project No.: 40242853

Dear Bethany Weeder:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40242853001	**MW-19**	Water	03/30/22 11:00	04/05/22 11:40
40242853002	**MW-13**	Water	03/30/22 11:05	04/05/22 11:40
40242853003	**MW-14**	Water	03/30/22 11:10	04/05/22 11:40
40242853004	**MW-16**	Water	03/30/22 11:15	04/05/22 11:40
40242853005	**MW-12**	Water	03/30/22 11:20	04/05/22 11:40
40242853006	**MW-15**	Water	03/30/22 11:25	04/05/22 11:40
40242853007	**MW-17**	Water	03/30/22 11:30	04/05/22 11:40
40242853008	**MW-18**	Water	03/30/22 11:35	04/05/22 11:40
40242853009	**TRIP BLANK**	Water	03/30/22 09:00	04/05/22 11:40

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SAMPLE ANALYTE COUNT

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40242853001	**MW-19**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853002	**MW-13**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853003	**MW-14**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853004	**MW-16**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853005	**MW-12**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853006	**MW-15**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853007	**MW-17**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853008	**MW-18**	EPA 8011	BK1	2	PASI-I
		EPA 8260	LAP	11	PASI-G
40242853009	**TRIP BLANK**	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-19 **Lab ID: 40242853001** Collected: 03/30/22 11:00 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 16:26	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	74	%.	50-150		1	04/07/22 15:00	04/07/22 16:26	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/07/22 13:22	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 13:22	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/07/22 13:22	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 13:22	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 13:22	91-20-3	
Toluene	**0.00036J**	mg/L	0.0010	0.00029	1		04/07/22 13:22	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		04/07/22 13:22	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/07/22 13:22	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/07/22 13:22	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/07/22 13:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		04/07/22 13:22	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-13 **Lab ID: 40242853002** Collected: 03/30/22 11:05 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000036	0.000020	1	04/07/22 15:00	04/07/22 16:41	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	79	%.	50-150		1	04/07/22 15:00	04/07/22 16:41	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/07/22 17:16	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 17:16	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/07/22 17:16	100-41-4	
Methyl-tert-butyl ether	**0.062**	mg/L	0.0050	0.0011	1		04/07/22 17:16	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 17:16	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 17:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		04/07/22 17:16	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/07/22 17:16	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		04/07/22 17:16	2037-26-5	pH
4-Bromofluorobenzene (S)	92	%	70-130		1		04/07/22 17:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		04/07/22 17:16	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-14 **Lab ID: 40242853003** Collected: 03/30/22 11:10 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 16:56	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	69	%.	50-150		1	04/07/22 15:00	04/07/22 16:56	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/07/22 17:35	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 17:35	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/07/22 17:35	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 17:35	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 17:35	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 17:35	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		04/07/22 17:35	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/07/22 17:35	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/07/22 17:35	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		04/07/22 17:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/07/22 17:35	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-16 **Lab ID: 40242853004** Collected: 03/30/22 11:15 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 17:11	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	75	%.	50-150		1	04/07/22 15:00	04/07/22 17:11	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.2**	mg/L	0.010	0.0030	10		04/08/22 09:40	71-43-2	
1,2-Dichloroethane	**<0.0029**	mg/L	0.010	0.0029	10		04/08/22 09:40	107-06-2	
Ethylbenzene	**0.33**	mg/L	0.010	0.0033	10		04/08/22 09:40	100-41-4	
Methyl-tert-butyl ether	**0.13**	mg/L	0.050	0.011	10		04/08/22 09:40	1634-04-4	
Naphthalene	**0.11**	mg/L	0.050	0.011	10		04/08/22 09:40	91-20-3	
Toluene	**0.018**	mg/L	0.010	0.0029	10		04/08/22 09:40	108-88-3	
1,2,4-Trimethylbenzene	**0.89**	mg/L	0.010	0.0045	10		04/08/22 09:40	95-63-6	
Xylene (Total)	**1.1**	mg/L	0.030	0.010	10		04/08/22 09:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		10		04/08/22 09:40	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		10		04/08/22 09:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		10		04/08/22 09:40	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-12 **Lab ID: 40242853005** Collected: 03/30/22 11:20 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000036	0.000020	1	04/07/22 15:00	04/07/22 17:27	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	58	%.	50-150		1	04/07/22 15:00	04/07/22 17:27	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**4.0**	mg/L	0.050	0.015	50		04/08/22 09:20	71-43-2	
1,2-Dichloroethane	**<0.015**	mg/L	0.050	0.015	50		04/08/22 09:20	107-06-2	
Ethylbenzene	**0.77**	mg/L	0.050	0.016	50		04/08/22 09:20	100-41-4	
Methyl-tert-butyl ether	**2.0**	mg/L	0.25	0.056	50		04/08/22 09:20	1634-04-4	
Naphthalene	**0.22J**	mg/L	0.25	0.056	50		04/08/22 09:20	91-20-3	
Toluene	**0.041J**	mg/L	0.050	0.014	50		04/08/22 09:20	108-88-3	
1,2,4-Trimethylbenzene	**1.1**	mg/L	0.050	0.022	50		04/08/22 09:20	95-63-6	
Xylene (Total)	**1.7**	mg/L	0.15	0.052	50		04/08/22 09:20	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		50		04/08/22 09:20	2037-26-5	
4-Bromofluorobenzene (S)	84	%	70-130		50		04/08/22 09:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		50		04/08/22 09:20	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-15 **Lab ID: 40242853006** Collected: 03/30/22 11:25 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 17:42	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	84	%.	50-150		1	04/07/22 15:00	04/07/22 17:42	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/08/22 08:21	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		04/08/22 08:21	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/08/22 08:21	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		04/08/22 08:21	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		04/08/22 08:21	91-20-3	
Toluene	**0.00039J**	mg/L	0.0010	0.00029	1		04/08/22 08:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		04/08/22 08:21	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/08/22 08:21	1330-20-7	
Surrogates									
Toluene-d8 (S)	83	%	70-130		1		04/08/22 08:21	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/08/22 08:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		04/08/22 08:21	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-17 **Lab ID: 40242853007** Collected: 03/30/22 11:30 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 17:57	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	50-150		1	04/07/22 15:00	04/07/22 17:57	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.8**	mg/L	0.010	0.0030	10		04/07/22 18:15	71-43-2	
1,2-Dichloroethane	**<0.0029**	mg/L	0.010	0.0029	10		04/07/22 18:15	107-06-2	
Ethylbenzene	**0.75**	mg/L	0.010	0.0033	10		04/07/22 18:15	100-41-4	
Methyl-tert-butyl ether	**2.4**	mg/L	0.050	0.011	10		04/07/22 18:15	1634-04-4	
Naphthalene	**0.58**	mg/L	0.050	0.011	10		04/07/22 18:15	91-20-3	
Toluene	**0.059**	mg/L	0.010	0.0029	10		04/07/22 18:15	108-88-3	
1,2,4-Trimethylbenzene	**1.5**	mg/L	0.010	0.0045	10		04/07/22 18:15	95-63-6	
Xylene (Total)	**1.7**	mg/L	0.030	0.010	10		04/07/22 18:15	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		10		04/07/22 18:15	2037-26-5	pH
4-Bromofluorobenzene (S)	91	%	70-130		10		04/07/22 18:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		10		04/07/22 18:15	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: MW-18 **Lab ID: 40242853008** Collected: 03/30/22 11:35 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	04/07/22 15:00	04/07/22 18:12	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	88	%.	50-150		1	04/07/22 15:00	04/07/22 18:12	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/07/22 16:56	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 16:56	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/07/22 16:56	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 16:56	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 16:56	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 16:56	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		04/07/22 16:56	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/07/22 16:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	86	%	70-130		1		04/07/22 16:56	2037-26-5	
4-Bromofluorobenzene (S)	83	%	70-130		1		04/07/22 16:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		04/07/22 16:56	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Sample: TRIP BLANK **Lab ID: 40242853009** Collected: 03/30/22 09:00 Received: 04/05/22 11:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		04/07/22 12:03	71-43-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		04/07/22 12:03	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		04/07/22 12:03	1634-04-4	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		04/07/22 12:03	108-88-3	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		04/07/22 12:03	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		04/07/22 12:03	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/07/22 12:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		04/07/22 12:03	2199-69-1	

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QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40242853

QC Batch: 670155
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40242853001, 40242853002, 40242853003, 40242853004, 40242853005, 40242853006, 40242853007, 40242853008

METHOD BLANK: 3085892 Matrix: Water
Associated Lab Samples: 40242853001, 40242853002, 40242853003, 40242853004, 40242853005, 40242853006, 40242853007, 40242853008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/L	<0.000019	0.000035	0.000019	04/07/22 15:55	
4-Bromofluorobenzene (S)	%.	71	50-150		04/07/22 15:55	

LABORATORY CONTROL SAMPLE: 3085893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/L	0.00025	0.00020	81	60-140	
4-Bromofluorobenzene (S)	%.			62	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3085894 3085895

Parameter	Units	40242853008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	mg/L	<0.000020	0.00052	0.00051	0.00041	0.00039	78	77	60-140	4	20	
4-Bromofluorobenzene (S)	%.						77	86	50-150			

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QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40242853

QC Batch: 412020
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40242853001, 40242853002, 40242853003, 40242853004, 40242853005, 40242853006, 40242853007, 40242853008, 40242853009

METHOD BLANK: 2372664 Matrix: Water
Associated Lab Samples: 40242853001, 40242853002, 40242853003, 40242853004, 40242853005, 40242853006, 40242853007, 40242853008, 40242853009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	0.00045	04/07/22 08:06	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	0.00029	04/07/22 08:06	
Benzene	mg/L	<0.00030	0.0010	0.00030	04/07/22 08:06	
Ethylbenzene	mg/L	<0.00033	0.0010	0.00033	04/07/22 08:06	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	0.0011	04/07/22 08:06	
Naphthalene	mg/L	<0.0011	0.0050	0.0011	04/07/22 08:06	
Toluene	mg/L	<0.00029	0.0010	0.00029	04/07/22 08:06	
Xylene (Total)	mg/L	<0.0010	0.0030	0.0010	04/07/22 08:06	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130		04/07/22 08:06	
4-Bromofluorobenzene (S)	%	90	70-130		04/07/22 08:06	
Toluene-d8 (S)	%	95	70-130		04/07/22 08:06	

LABORATORY CONTROL SAMPLE: 2372665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.05	0.056	113	70-130	
Benzene	mg/L	0.05	0.060	119	70-132	
Ethylbenzene	mg/L	0.05	0.057	114	80-123	
Methyl-tert-butyl ether	mg/L	0.05	0.057	114	66-130	
Toluene	mg/L	0.05	0.054	108	80-121	
Xylene (Total)	mg/L	0.15	0.17	116	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2372666 2372667

Parameter	Units	40242707005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.050	0.052	99	103	70-130	4	20	
Benzene	mg/L	<1.0 ug/L	0.05	0.05	0.053	0.054	106	108	70-132	2	20	
Ethylbenzene	mg/L	<1.0 ug/L	0.05	0.05	0.053	0.054	105	108	80-123	3	20	
Methyl-tert-butyl ether	mg/L	<5.0 ug/L	0.05	0.05	0.050	0.050	99	100	66-130	1	20	
Toluene	mg/L	<1.0 ug/L	0.05	0.05	0.048	0.051	97	101	80-121	4	20	
Xylene (Total)	mg/L	<3.0 ug/L	0.15	0.15	0.15	0.15	100	102	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						96	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40242853

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2372666 2372667

Parameter	Units	40242707005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						99	101	70-130			
Toluene-d8 (S)	%						93	93	70-130			

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QUALIFIERS

Project: SPEEDWAY 3642
Pace Project No.: 40242853

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPEEDWAY 3642
Pace Project No.: 40242853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40242853001	**MW-19**	EPA 8011	670155	EPA 8011	670268
40242853002	**MW-13**	EPA 8011	670155	EPA 8011	670268
40242853003	**MW-14**	EPA 8011	670155	EPA 8011	670268
40242853004	**MW-16**	EPA 8011	670155	EPA 8011	670268
40242853005	**MW-12**	EPA 8011	670155	EPA 8011	670268
40242853006	**MW-15**	EPA 8011	670155	EPA 8011	670268
40242853007	**MW-17**	EPA 8011	670155	EPA 8011	670268
40242853008	**MW-18**	EPA 8011	670155	EPA 8011	670268
40242853001	**MW-19**	EPA 8260	412020		
40242853002	**MW-13**	EPA 8260	412020		
40242853003	**MW-14**	EPA 8260	412020		
40242853004	**MW-16**	EPA 8260	412020		
40242853005	**MW-12**	EPA 8260	412020		
40242853006	**MW-15**	EPA 8260	412020		
40242853007	**MW-17**	EPA 8260	412020		
40242853008	**MW-18**	EPA 8260	412020		
40242853009	**TRIP BLANK**	EPA 8260	412020		

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40242853

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Required Client Information: Section A	Required Client Information: Section B	Client Information (Check quote/contract):	To Be Completed by Pace Analytical Client: Section C
Company: Atlas Technical	Report To: Bethany Weeder	Requested Due Date: Standard	Quote Reference:
Address: 8100 Snowville Road	Copy To: Colin McNulty & Sue Sprouse	*TAT:	Project Manager:
Brecksville, Ohio 44141	Invoice To: Bethany & Sue	* Turn around times less than 14 days subject	Project #:
	P.O.	laboratory and contractual obligations and may	Profile #:
	Project Name: Speedway 3642	in a Rush Turnaround Surcharge.	
Phone: 440-838-7177 Fax:	Project Number:	Turn Around Time (TAT) in calender days.	

Required Client Information: **Section D**

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM NUMBER	SAMPLE ID (One charater per box.)	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Preservatives: # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: BTEXM 8260	NAP,TMB8260	EDC 8260	EDB 8011	REMARKS / Lab ID
1	MW-19	WT	3/30/22	1100	4				X				X	X	X	X	001
2	MW-13	WT	3/30/22	1105	6				X				X	X	X	X	002
3	MW-14	WT	3/30/22	1110	6				X				X	X	X	X	003
4	MW-16	WT	3/30/22	1115	6				X				X	X	X	X	004
5	MW-12	WT	3/30/22	1120	6				X				X	X	X	X	005
6	MW-15	WT	3/30/22	1125	6				X				X	X	X	X	006
7	MW-17	WT	3/30/22	1130	6				X				X	X	X	X	007
8	MW-18	WT	3/30/22	1135	6				X				X	X	X	X	008
9	TRIP BLANK	WT	3/30/22	0900	3				X				X				009
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
						4-4-22	1225		4-4-22	1225
						4-4-22	1500	UPS		
					UPS	4/5/22	1140		4/5/22	1140

SAMPLE CONDITION:

Temp in C	3
Received on Ice	(Y) N
Sealed Cooler	(Y) N
Sample Intact	(Y) N

SAMPLE NOTES: 2017 BUSTR GROUP 1

Additional Comments:

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Kristen Imburgia
SIGNATURE of SAMPLER	DATE Signed: 3/31/22

Sample Preservation Receipt Form

Client Name: Atlas Project # 40242853

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	6										1						2.5 / 5 / 10
002																	6																2.5 / 5 / 10
003																	6																2.5 / 5 / 10
004																	6																2.5 / 5 / 10
005																	6																2.5 / 5 / 10
006																	6																2.5 / 5 / 10
007																	6										2						2.5 / 5 / 10
008																	6																2.5 / 5 / 10
009																	3																2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

4/5/22 dgv

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☒Yes ☐No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40242853

40242853

Client Name: Atlas

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z 90E GE3 13 9900 9479

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 107 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 3

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4/5/22 /Initials: AL

Labeled By Initials: NK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no proj. # 4/5/22 AL
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: L	☐Yes ☒No ☐N/A	12 COC three vials no date 4/5/22 AL
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 467		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 16, 2022

Bethany Weeder
Atlas
8100 Snowville Road
Brecksville, OH 44141

RE: Project: SPEEDWAY 3642
Pace Project No.: 40246333

Dear Bethany Weeder:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246333001	**MW-14**	Water	06/08/22 13:30	06/10/22 10:05
40246333002	**MW-13**	Water	06/08/22 13:35	06/10/22 10:05
40246333003	**MW-16**	Water	06/08/22 13:40	06/10/22 10:05
40246333004	**MW-12**	Water	06/08/22 13:45	06/10/22 10:05
40246333005	**MW-15**	Water	06/08/22 13:50	06/10/22 10:05
40246333006	**MW-18**	Water	06/08/22 13:55	06/10/22 10:05
40246333007	**MW-19**	Water	06/08/22 14:00	06/10/22 10:05
40246333008	**MW-17**	Water	06/08/22 14:05	06/10/22 10:05
40246333009	**TRIP BLANK**	Water	06/08/22 09:00	06/10/22 10:05

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SAMPLE ANALYTE COUNT

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246333001	**MW-14**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333002	**MW-13**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333003	**MW-16**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333004	**MW-12**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333005	**MW-15**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333006	**MW-18**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333007	**MW-19**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333008	**MW-17**	EPA 8011	BK1	2	PASI-I
		EPA 8260	JAV	11	PASI-G
40246333009	**TRIP BLANK**	EPA 8260	JAV	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-14 **Lab ID: 40246333001** Collected: 06/08/22 13:30 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000036	0.000020	1	06/14/22 11:50	06/14/22 16:02	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	87	%.	50-150		1	06/14/22 11:50	06/14/22 16:02	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/13/22 11:50	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 11:50	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/13/22 11:50	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		06/13/22 11:50	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		06/13/22 11:50	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 11:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		06/13/22 11:50	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/13/22 11:50	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		06/13/22 11:50	2037-26-5	pH
4-Bromofluorobenzene (S)	95	%	70-130		1		06/13/22 11:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/13/22 11:50	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-13 **Lab ID: 40246333002** Collected: 06/08/22 13:35 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000036	0.000020	1	06/14/22 11:50	06/14/22 16:47	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	50-150		1	06/14/22 11:50	06/14/22 16:47	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/13/22 12:08	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 12:08	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/13/22 12:08	100-41-4	
Methyl-tert-butyl ether	**0.055**	mg/L	0.0050	0.0011	1		06/13/22 12:08	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		06/13/22 12:08	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 12:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		06/13/22 12:08	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/13/22 12:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		06/13/22 12:08	2037-26-5	pH
4-Bromofluorobenzene (S)	99	%	70-130		1		06/13/22 12:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		06/13/22 12:08	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-16 **Lab ID: 40246333003** Collected: 06/08/22 13:40 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000037	0.000020	1	06/14/22 11:50	06/14/22 17:02	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	50-150		1	06/14/22 11:50	06/14/22 17:02	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.8**	mg/L	0.010	0.0030	10		06/13/22 15:19	71-43-2	
1,2-Dichloroethane	**<0.0029**	mg/L	0.010	0.0029	10		06/13/22 15:19	107-06-2	
Ethylbenzene	**0.53**	mg/L	0.010	0.0033	10		06/13/22 15:19	100-41-4	
Methyl-tert-butyl ether	**0.28**	mg/L	0.050	0.011	10		06/13/22 15:19	1634-04-4	
Naphthalene	**0.31**	mg/L	0.050	0.011	10		06/13/22 15:19	91-20-3	
Toluene	**0.027**	mg/L	0.010	0.0029	10		06/13/22 15:19	108-88-3	
1,2,4-Trimethylbenzene	**1.9**	mg/L	0.010	0.0045	10		06/13/22 15:19	95-63-6	
Xylene (Total)	**1.7**	mg/L	0.030	0.010	10		06/13/22 15:19	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		10		06/13/22 15:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		10		06/13/22 15:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		10		06/13/22 15:19	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-12 **Lab ID: 40246333004** Collected: 06/08/22 13:45 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000019**	mg/L	0.000035	0.000019	1	06/14/22 11:50	06/14/22 17:17	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	90	%.	50-150		1	06/14/22 11:50	06/14/22 17:17	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**5.0**	mg/L	0.050	0.015	50		06/13/22 14:10	71-43-2	
1,2-Dichloroethane	**<0.015**	mg/L	0.050	0.015	50		06/13/22 14:10	107-06-2	
Ethylbenzene	**0.72**	mg/L	0.050	0.016	50		06/13/22 14:10	100-41-4	
Methyl-tert-butyl ether	**2.9**	mg/L	0.25	0.056	50		06/13/22 14:10	1634-04-4	
Naphthalene	**0.41**	mg/L	0.25	0.056	50		06/13/22 14:10	91-20-3	
Toluene	**0.060**	mg/L	0.050	0.014	50		06/13/22 14:10	108-88-3	
1,2,4-Trimethylbenzene	**1.6**	mg/L	0.050	0.022	50		06/13/22 14:10	95-63-6	
Xylene (Total)	**1.9**	mg/L	0.15	0.052	50		06/13/22 14:10	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		50		06/13/22 14:10	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		50		06/13/22 14:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		50		06/13/22 14:10	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-15 **Lab ID: 40246333005** Collected: 06/08/22 13:50 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000020**	mg/L	0.000036	0.000020	1	06/14/22 11:50	06/14/22 17:32	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	82	%.	50-150		1	06/14/22 11:50	06/14/22 17:32	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.9**	mg/L	0.040	0.012	40		06/14/22 14:00	71-43-2	pH
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 12:25	107-06-2	
Ethylbenzene	**0.55**	mg/L	0.040	0.013	40		06/14/22 14:00	100-41-4	pH
Methyl-tert-butyl ether	**2.3**	mg/L	0.20	0.045	40		06/14/22 14:00	1634-04-4	pH
Naphthalene	**0.48**	mg/L	0.20	0.045	40		06/14/22 14:00	91-20-3	pH
Toluene	**0.055**	mg/L	0.0010	0.00029	1		06/13/22 12:25	108-88-3	
1,2,4-Trimethylbenzene	**1.1**	mg/L	0.040	0.018	40		06/14/22 14:00	95-63-6	pH
Xylene (Total)	**1.1**	mg/L	0.12	0.042	40		06/14/22 14:00	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		06/13/22 12:25	2037-26-5	pH
4-Bromofluorobenzene (S)	101	%	70-130		1		06/13/22 12:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		06/13/22 12:25	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-18 **Lab ID: 40246333006** Collected: 06/08/22 13:55 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000019**	mg/L	0.000035	0.000019	1	06/14/22 11:50	06/14/22 17:47	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	116	%.	50-150		1	06/14/22 11:50	06/14/22 17:47	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/14/22 11:42	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 11:42	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/14/22 11:42	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 11:42	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 11:42	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 11:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		06/14/22 11:42	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/14/22 11:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		06/14/22 11:42	2037-26-5	pH
4-Bromofluorobenzene (S)	103	%	70-130		1		06/14/22 11:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		06/14/22 11:42	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-19 **Lab ID: 40246333007** Collected: 06/08/22 14:00 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000019**	mg/L	0.000036	0.000019	1	06/14/22 11:50	06/14/22 18:02	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	117	%.	50-150		1	06/14/22 11:50	06/14/22 18:02	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/14/22 11:59	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 11:59	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/14/22 11:59	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 11:59	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 11:59	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 11:59	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		06/14/22 11:59	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/14/22 11:59	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		06/14/22 11:59	2037-26-5	pH
4-Bromofluorobenzene (S)	100	%	70-130		1		06/14/22 11:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		06/14/22 11:59	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: MW-17 **Lab ID: 40246333008** Collected: 06/08/22 14:05 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Indianapolis								
1,2-Dibromoethane (EDB)	**<0.000019**	mg/L	0.000035	0.000019	1	06/14/22 11:50	06/14/22 18:17	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	123	%.	50-150		1	06/14/22 11:50	06/14/22 18:17	460-00-4	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/14/22 12:34	71-43-2	
1,2-Dichloroethane	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 12:34	107-06-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/14/22 12:34	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 12:34	1634-04-4	
Naphthalene	**<0.0011**	mg/L	0.0050	0.0011	1		06/14/22 12:34	91-20-3	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/14/22 12:34	108-88-3	
1,2,4-Trimethylbenzene	**<0.00045**	mg/L	0.0010	0.00045	1		06/14/22 12:34	95-63-6	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/14/22 12:34	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		06/14/22 12:34	2037-26-5	pH
4-Bromofluorobenzene (S)	101	%	70-130		1		06/14/22 12:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/14/22 12:34	2199-69-1	

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ANALYTICAL RESULTS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Sample: TRIP BLANK **Lab ID: 40246333009** Collected: 06/08/22 09:00 Received: 06/10/22 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.00030**	mg/L	0.0010	0.00030	1		06/13/22 10:42	71-43-2	
Ethylbenzene	**<0.00033**	mg/L	0.0010	0.00033	1		06/13/22 10:42	100-41-4	
Methyl-tert-butyl ether	**<0.0011**	mg/L	0.0050	0.0011	1		06/13/22 10:42	1634-04-4	
Toluene	**<0.00029**	mg/L	0.0010	0.00029	1		06/13/22 10:42	108-88-3	
Xylene (Total)	**<0.0010**	mg/L	0.0030	0.0010	1		06/13/22 10:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		06/13/22 10:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/13/22 10:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		06/13/22 10:42	2199-69-1	

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QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40246333

QC Batch: 681557
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40246333001, 40246333002, 40246333003, 40246333004, 40246333005, 40246333006, 40246333007, 40246333008

METHOD BLANK: 3136787 Matrix: Water
Associated Lab Samples: 40246333001, 40246333002, 40246333003, 40246333004, 40246333005, 40246333006, 40246333007, 40246333008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/L	<0.000019	0.000035	0.000019	06/14/22 15:32	
4-Bromofluorobenzene (S)	%.	90	50-150		06/14/22 15:32	

LABORATORY CONTROL SAMPLE: 3136788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/L	0.00025	0.00020	81	60-140	
4-Bromofluorobenzene (S)	%.			82	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3136789 3136790

Parameter	Units	40246333001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	mg/L	<0.000020	0.00026	0.00026	0.00024	0.00023	91	89	60-140	3	20	
4-Bromofluorobenzene (S)	%.						84	91	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40246333

QC Batch: 418070
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246333001, 40246333002, 40246333003, 40246333004, 40246333005, 40246333006, 40246333007, 40246333008, 40246333009

METHOD BLANK: 2407892 Matrix: Water
Associated Lab Samples: 40246333001, 40246333002, 40246333003, 40246333004, 40246333005, 40246333006, 40246333007, 40246333008, 40246333009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/L	<0.00045	0.0010	0.00045	06/13/22 08:38	
1,2-Dichloroethane	mg/L	<0.00029	0.0010	0.00029	06/13/22 08:38	
Benzene	mg/L	<0.00030	0.0010	0.00030	06/13/22 08:38	
Ethylbenzene	mg/L	<0.00033	0.0010	0.00033	06/13/22 08:38	
Methyl-tert-butyl ether	mg/L	<0.0011	0.0050	0.0011	06/13/22 08:38	
Naphthalene	mg/L	<0.0011	0.0050	0.0011	06/13/22 08:38	
Toluene	mg/L	<0.00029	0.0010	0.00029	06/13/22 08:38	
Xylene (Total)	mg/L	<0.0010	0.0030	0.0010	06/13/22 08:38	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130		06/13/22 08:38	
4-Bromofluorobenzene (S)	%	99	70-130		06/13/22 08:38	
Toluene-d8 (S)	%	99	70-130		06/13/22 08:38	

LABORATORY CONTROL SAMPLE: 2407893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.05	0.052	104	70-137	
Benzene	mg/L	0.05	0.054	108	70-130	
Ethylbenzene	mg/L	0.05	0.055	110	80-120	
Methyl-tert-butyl ether	mg/L	0.05	0.052	105	70-130	
Toluene	mg/L	0.05	0.053	107	80-120	
Xylene (Total)	mg/L	0.15	0.17	112	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408170 2408171

Parameter	Units	40246335005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	mg/L	<1.0 ug/L	0.05	0.05	0.050	0.051	101	103	70-137	2	20	
Benzene	mg/L	<1.0 ug/L	0.05	0.05	0.051	0.053	103	106	70-130	3	20	
Ethylbenzene	mg/L	<1.0 ug/L	0.05	0.05	0.052	0.054	104	107	80-121	3	20	
Methyl-tert-butyl ether	mg/L	<5.0 ug/L	0.05	0.05	0.055	0.054	109	107	70-130	2	20	
Toluene	mg/L	<1.0 ug/L	0.05	0.05	0.051	0.052	102	105	80-120	3	20	
Xylene (Total)	mg/L	<3.0 ug/L	0.15	0.15	0.16	0.17	107	110	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%						101	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: SPEEDWAY 3642
Pace Project No.: 40246333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2408170 2408171

Parameter	Units	40246335005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						101	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: SPEEDWAY 3642
Pace Project No.: 40246333

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPEEDWAY 3642
Pace Project No.: 40246333

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246333001	**MW-14**	EPA 8011	681557	EPA 8011	681823
40246333002	**MW-13**	EPA 8011	681557	EPA 8011	681823
40246333003	**MW-16**	EPA 8011	681557	EPA 8011	681823
40246333004	**MW-12**	EPA 8011	681557	EPA 8011	681823
40246333005	**MW-15**	EPA 8011	681557	EPA 8011	681823
40246333006	**MW-18**	EPA 8011	681557	EPA 8011	681823
40246333007	**MW-19**	EPA 8011	681557	EPA 8011	681823
40246333008	**MW-17**	EPA 8011	681557	EPA 8011	681823
40246333001	**MW-14**	EPA 8260	418070		
40246333002	**MW-13**	EPA 8260	418070		
40246333003	**MW-16**	EPA 8260	418070		
40246333004	**MW-12**	EPA 8260	418070		
40246333005	**MW-15**	EPA 8260	418070		
40246333006	**MW-18**	EPA 8260	418070		
40246333007	**MW-19**	EPA 8260	418070		
40246333008	**MW-17**	EPA 8260	418070		
40246333009	**TRIP BLANK**	EPA 8260	418070		

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402463333

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Required Client Information: **Section A**	Required Client Information: **Section B**	Client Information (Check quote/contract):	To Be Completed by Pace Analytical Client: **Section C**
Company: Atlas Technical	Report To: Bethany Weeder	Requested Due Date: Standard	Quote Reference:
Address: 8100 Snowville Road	Copy To: Zac Turner & Sue Sprouse	*TAT:	Project Manager:
Brecksville, Ohio 44141	Invoice To: Bethany & Sue	* Turn around times less than 14 days subject	Project #:
	P.O.	laboratory and contractual obligations and may	Profile #:
	Project Name: Speedway 3642	in a Rush Turnaround Surcharge.	
Phone: 440-838-7177 Fax:	Project Number:	Turn Around Time (TAT) in calendar days.	

Required Client Information: **Section D**

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM NUMBER	SAMPLE ID (One charater per box.)	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Preservatives: # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: BTEXM 8260	NAP,TMB 8260	EDC 8260	EDB 8011	REMARKS / Lab ID
1	MW-14	WT	6/8/22	1330	6				X				X	X	X	X	001
2	MW-13	WT	6/8/22	1335	6				X				X	X	X	X	002
3	MW-16	WT	6/8/22	1340	6				X				X	X	X	X	003
4	MW-12	WT	6/8/22	1345	6				X				X	X	X	X	004
5	MW-15	WT	6/8/22	1350	6				X				X	X	X	X	005
6	MW-18	WT	6/8/22	1355	6				X				X	X	X	X	006
7	MW-19	WT	6/8/22	1400	6				X				X	X	X	X	007
8	MW-17	WT	6/8/22	1405	6				X				X	X	X	X	008
9	TRIP BLANK	WT	6/8/22	0900	3				X				X				009
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		6-9-22	1200		6-9-22	1200
		6-9-22	1500	UPS		
		6/10/22	1005		6/10/22	1005

SAMPLE CONDITION:

Temp in C	3.1
Received on Ice	(Y) N
Sealed Cooler	(Y) / N
Sample Intact	(Y) / N

SAMPLE NOTES: 2017 BUSTR GROUP 1

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Imburgia

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/9/22

Sample Preservation Receipt Form

Client Name: Atlas

Project # 410246333

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

	Glass							Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																										6						2.5 / 5 / 10
002																										6						2.5 / 5 / 10
003																										6						2.5 / 5 / 10
004																										6						2.5 / 5 / 10
005																										6						2.5 / 5 / 10
006																										6						2.5 / 5 / 10
007																										6						2.5 / 5 / 10
008																										6						2.5 / 5 / 10
009																										6						2.5 / 5 / 10
010																3																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

6/10/25 AM

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☐Yes ☒No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	40mL amber vial HCL

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR
Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40246333

40246333

Client Name: Atlas

Courier: ~~CS Logistics~~ ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

6/10/22 AJ

Tracking #: 12 90E 6F3 13 9347 7307

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 108 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3.1

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 6/10/22 /Initials: AJ

Labeled By Initials: MH

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no proj. # & ph. 6/10/22 AJ
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 477		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

ATTACHMENT E

LABORATORY SUMMARY FORMS

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: August 28, 2020 FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool		
List the cooler temperature upon receipt:	2.0 °F ☒	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☐	NA ☒
Were the soil sample containers filled?	Yes ☒	No ☐	NA ☐
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☐	No ☒
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☐	No ☒
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☐	No ☒
Matrix spike duplicates or matrix duplicates	Yes ☐	No ☒
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒			
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA	
	☐ Other (list):				

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Laurie Woelfel, Project Manager		

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40213785

40213785

Client Name: ATC

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7713 8670 8094

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 97 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 8/13/20 Initials: SMW

Labeled By Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished: SMW 8/13/20	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 447		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: **March 29, 2022** FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☐	No ☒	
Sampler signature included?	Yes ☐	No ☒	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool		
List the cooler temperature upon receipt:	3.0 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☐	NA ☒
Were the soil sample containers filled?	Yes ☒	No ☐	NA ☐
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

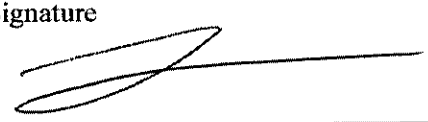
SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☒	No ☐
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒		
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA
	☐ Other (list):			

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Steve Mleczko, Project Manager		3/29/22

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: **April 8, 2022** FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☒	No ☐	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool, HCL		
List the cooler temperature upon receipt:	0.3 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☒	NA ☐
Were the soil sample containers filled?	Yes ☐	No ☐	NA ☒
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☒	No ☐
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒		
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA
	☐ Other (list):			

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Steve Mleczko, Project Manager		4/8/2022

Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations (BUSTR)

LABORATORY ANALYSIS QA/QC SUMMARY FORM

(To be included with each laboratory chemical analysis report)

REPORT DATE: **June 16, 2022** FACILITY ID#: _____

SAMPLE RECEIPT

Was the chain of custody present for all samples?	Yes ☒	No ☐	
Sampler name included?	Yes ☒	No ☐	
Sampler signature included?	Yes ☒	No ☐	
Sample date included?	Yes ☒	No ☐	
Sample time included?	Yes ☒	No ☐	
List the preservation method(s):	Cool, HCl		
List the cooler temperature upon receipt:	3.1 °F ☐	°C ☒	
Was headspace present in any sample vials?	Yes ☐	No ☒	NA ☐
Were the soil sample containers filled?	Yes ☐	No ☐	NA ☒
Were sample containers tightly sealed?	Yes ☒	No ☐	
Were the correct laboratory containers used?	Yes ☒	No ☐	

SAMPLE ANALYSIS

Were all analysis performed using SW-846 & ASTM methods? If not, identify the other methods used:	Yes ☒	No ☐
Were dates of sample extraction provided?	Yes ☒	No ☐
Were the matrix spike results within the control limit range established by the USEPA?	Yes ☒	No ☐
Were surrogate recoveries within the control limit range established by the USEPA?	Yes ☒	No ☐
Were control samples used to establish appropriate control limits for precision and bias?	Yes ☒	No ☐
Were instrument blanks, calibration standards, and method blanks submitted and analyzed?	Yes ☒	No ☐
Were matrix spike samples analyzed and either matrix spike duplicates or matrix duplicate samples analyzed?	Yes ☒	No ☐
Were the following QC samples used for each analytical batch:		
Lab control samples	Yes ☒	No ☐
Method blanks	Yes ☒	No ☐
Matrix spikes	Yes ☒	No ☐
Matrix spike duplicates or matrix duplicates	Yes ☒	No ☐
Were there any problems noted with surrogate recovery, % recovery, or % RSD? If so, list sample IDs: See Report Qualifier Page	Yes ☐	No ☒
Were there any data qualifiers noted by the lab? If so, list sample IDs: See Report Qualifier Page	Yes ☒	No ☐

LAB CERTIFICATION

Is the laboratory affiliated with the sampling company?	Yes ☐	No ☒		
Check lab certification that applies:	☐ Ohio EPA DDGW	☐ Ohio EPA VAP	☒ NELAP	☐ A2LA
	☐ Other (list):			

COMPLETED BY

Print Name of Lab Representative and Title:	Signature	Date
Steve Mleczko, Project Manager		6/16/2022

ATTACHMENT F

CHAINS OF CUSTODY

4021347

Chain-of-Custody-Record

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

COC ID # 00053678

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Colin McNulty		
Shipped:	FedExp		
Tracking #:	7713 0055 3512		

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-15 (2-4')	08/18/2020 11:25am	S	2	4 OZ	NONE	2017 VOC Adders	8260	001
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-15 (4-6')	08/18/2020 11:40am	S	2	4 OZ	NONE	2017 VOC Adders	8260	002
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-16 (4-6')	08/18/2020 12:15pm	S	2	4 OZ	NONE	2017 VOC Adders	8260	003
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fed Ex	Date 8/20/20	Time 1000	Received by laboratory: Sam Kipp Pace	Date 8/20/20	Time 1000
Special Reporting Requirements:			Lab Notes:	Temp 2.0°C	

40213247

Chain-of-Custody-Record

COC ID # 00053678

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Colin McNulty		
Shipped:	FedExp		
Tracking #:	7713 0055 3512		

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
MW-16 (6-8')	08/18/2020 12:25pm	S	2	4 OZ	NONE	2017 VOC Adders	8260	004
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-17 (2-4')	08/18/2020 02:10pm	S	2	4 OZ	NONE	2017 VOC Adders	8260	005
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	
MW-17 (4-6')	08/18/2020 02:25pm	S	2	4 OZ	NONE	2017 VOC Adders	8260	006
				4 OZ	NONE	8015 TPH (C6 - C12)	8015	
				4 OZ	NONE	8260 BTEX and MTBE	8260	

Relinquished by:	**Date**	**Time**	**Received by:**	**Date**	**Time**
Relinquished by: Fed Ex	**Date** 8/20/20	**Time** 1000	**Received by laboratory:** Sean Kpp Pace	**Date** 8/20/20	**Time** 1000
Special Reporting Requirements:			**Lab Notes:**	**Temp** 2.0	

40213247

Chain-of-Custody-Record

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

COC ID # 00053678

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Colin McNulty		
Shipped:	FedExp		
Tracking #:	7713 0055 3512		

Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks

Relinquished by: Colin McNulty	Date 8/19/20	Time 1113	Received by:	Date	Time
Relinquished by: Fed Ex	Date 8/20/20	Time 1000	Received by laboratory: Sean Kipp-Pace	Date 8/20/20	Time 1000
Special Reporting Requirements:			Lab Notes:	Temp 2.0 °C	

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ATL Project # 4023247

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																				2												2.5 / 5 / 10
002																				2												2.5 / 5 / 10
003																				2												2.5 / 5 / 10
004																				2												2.5 / 5 / 10
005																				2												2.5 / 5 / 10
006																				2												2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																									6/20/20 SRK							2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40213247

40213247

Client Name: ATC

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7713 0055 3512

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 98 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Person examining contents:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Date: 8/20/20 /Initials: SRK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☒No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:				8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes	☒No	☐N/A	
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
Trip Blank Present:	☐Yes	☐No	☒N/A	13.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

40213785

Page 1 of 2

Chain-of-Custody-Record

COC ID # 00053733

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Colin McNulty		
Shipped:	FedExp		
Tracking #:	7713 7255 3154		

	Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
001	MW-12	08/27/2020 02:50pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
002	MW-13	08/27/2020 02:35pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
003	MW-14	08/27/2020 02:20pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
004	MW-15	08/27/2020 02:00pm	W	6	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	

40213785

Page 2 of 2

Chain-of-Custody-Record

COC ID # 00053733

TURN AROUND TIME
STANDARD

Speedway Project Information

Speedway Store #:	C210003642	**Facility ID**	87000087
Address:	939 Dixie Hwy		
City:	Rossford	**State:**	OH
Phone #:		**Fax #:**	
Speedway Proj. Mgr:	Michael Byrne	****INVOICE TO CONSULTANT****	
AFE #:		**Work Order #:**	

Lab Information

Lab:	Pace Analytical Services (WI)		
Consultant:	ATC Group Services - Cleveland, OH		
Project Mgr:	Ms Bethany Weeder		
Address:	8100 Snowville Road Brecksville, Oh 44141-3478		
Phone #:	O:440-838-7177 x	**Fax #:**	Fax: 440-838-7181
Sampler:	Colin McNulty		
Shipped:	FedExp		
Tracking #:	7713 7255 3154		

	Sample ID	Date/Time Sampled	Matrix	Count	Container Type	Preservative	Analysis to be Performed	Method	Remarks
005	MW-16	08/27/2020 01:45pm	W	2	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
006	MW-17	08/27/2020 01:30pm	W	4	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	
007	TRIP BLANK	08/27/2020 01:00pm	W	2	40 MIL AMBER VIAL	HCL	2017 VOC Adders 1 of 2	8260	
					40 MIL AMBER VIAL	HCL	2017 VOC Adders 2 of 2	8011	
					VOA - 40 MILL	HCL	8260 BTEX and MTBE	8260	

Relinquished by:	Date 8/28/20	Time 1015	**Received by:**	Date	Time
Relinquished by: FedEx	Date 8/31/20	Time 1045	**Received by Laboratory:** Pace	Date 8/31/20	Time 1045
Special Reporting Requirements:			**Lab Notes:**	**Temp** 2.0	

40213785

Chain of Custody Analysis to be Performed
COC ID # 53733

Chain-of-Custody-Record
Printed: 10/13/2020

Analysis Name: 2017 VOC Adders 1 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 1 of 2 / 8260

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2,4-Trimethylbenzene ug/L, 1,2-Dichloroethane ug/L, Naphthalene ug/L

Analysis Name: 2017 VOC Adders 2 of 2 (Water)

Analysis Description / Method: 2017 VOC Adders 2 of 2 / 8011

Container Type / Preservative: 40 MIL AMBER VIAL / HCL

Analytes: 1,2-Dibromoethane ug/L

Analysis Name: 8260 BTEX and MTBE (Water)

Analysis Description / Method: Benzene, Toluene, Ethylbenzene, o m and p Xylenes, and Methyl tertiary-butyl ether (MTBE) / 8260

Container Type / Preservative: VOA - 40 MILL / HCL

Analytes: Benzene ug/L, Ethylbenzene ug/L, Methyl tert butyl ether ug/L, Toluene ug/L, Total Xylenes ug/L

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: ATC Project # 40213785

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																										6	2					2.5 / 5 / 10
002																										6	1					2.5 / 5 / 10
003																										6						2.5 / 5 / 10
004																										6	2					2.5 / 5 / 10
005																										2						2.5 / 5 / 10
006																										4						2.5 / 5 / 10
007																	2										2						2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: (VOA) Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☑Yes □No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	40mL amberglass HCl

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40213785

40213785

Client Name: ATC

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7713 8670 8094

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 97 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 8/13/20 Initials: SMW

Labeled By Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished: SMW 8/13/20	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 447		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

40242217

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: | of

Required Client Information: **Section A**	Required Client Information: **Section B**	**Client Information (Check quote/contract):**	To Be Completed by Pace Analytical Client: **Section C**
Company: Atlas Technical Consultants LLC	Report To: Bethany Weeder	Requested Due Date:	Quote Reference:
Address: 8100 Snowville Road	Copy To: Colin McNulty	*TAT:	Project Manager: Bethany Weeder
Brecksville, Ohio 44141	Invoice To:	* Turn around times less than 14 days subject	Project #: 240116 0345
	P.O.	laboratory and contractual obligations and may	Profile #:
	Project Name: Speedway 3642	in a Rush Turnaround Surcharge.	
Phone: 440-838-7177 Fax:	Project Number:	Turn Around Time (TAT) in calender days.	

Required Client Information: **Section D**

Valid Matrix Codes: Matrix / Code — Water WT; Soil SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM NUMBER	SAMPLE ID (One charater per box.)	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	BTEX 8260	MTBE 8260	NAP 8260	1,2,4-TMB 8260	EDB 8260	EDC 8260	TPH C6-C12 8015	REMARKS / Lab ID
1	MW-18-2-4	SL	3/17/22	1013	2	X							X	X	X	X	X	X	X	001
2	MW-18-4-6	SL	3/17/22	1017	2	X							X	X	X	X	X	X	X	002
3	MW-19-2-4	SL	3/17/22	1157	2	X							X	X	X	X	X	X	X	003
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					Andrew Januzzi / Atlas	3/21/22	0800		3-21-22	0800
						3-21-22	1540	UPS		
					UPS	3/22/22	1330	Susan Kilgore	3/22/22	1330

SAMPLE CONDITION:

Temp in C	3
Received on Ice	(Y) / N
Sealed Cooler	(Y) / N
Sample Intact	(Y) / N

SAMPLE NOTES:

8260: BTEX, MTBE, Naphthalene, 1,2,4-Trimethyl benzene, EDB, EDC

8015: TPH C6-C12

Additional Comments:

AFE #: 190243

Work order #: 1104839378

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andrew Januzzi

SIGNATURE of SAMPLER: [signature] DATE Signed: 3/17/22

Sample Preservation Receipt Form

Client Name: Atlas Technical Project # 402422117

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																				2													2.5 / 5 / 10
002																				2													**2.5 / 5 / 10**
003																				2													2.5 / 5 / 10
004																																	**2.5 / 5 / 10**
005																																	2.5 / 5 / 10
006																																	**2.5 / 5 / 10**
007																																	2.5 / 5 / 10
008																																	**2.5 / 5 / 10**
009																																	2.5 / 5 / 10
010																																	**2.5 / 5 / 10**
011																																	2.5 / 5 / 10
012																																	**2.5 / 5 / 10**
013																																	2.5 / 5 / 10
014																																	**2.5 / 5 / 10**
015																																	2.5 / 5 / 10
016																																	**2.5 / 5 / 10**
017																																	2.5 / 5 / 10
018																																	**2.5 / 5 / 10**
019																																	2.5 / 5 / 10
020																																	**2.5 / 5 / 10**

3/23/22 SW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: Atlas Technical Project #:

WO# : 40242217

40242217

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: 1290E6F 323100 2

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3

Person examining contents:
Date: 3/22/22 /Initials: SKW

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: BP

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

40242853

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Required Client Information: Section A	Required Client Information: Section B	Client Information (Check quote/contract):	To Be Completed by Pace Analytical Client: Section C
Company: Atlas Technical	Report To: Bethany Weeder	Requested Due Date: Standard	Quote Reference:
Address: 8100 Snowville Road	Copy To: Colin McNulty & Sue Sprouse	*TAT:	Project Manager:
Brecksville, Ohio 44141	Invoice To: Bethany & Sue	* Turn around times less than 14 days subject	Project #:
	P.O.	laboratory and contractual obligations and may	Profile #:
	Project Name: Speedway 3642	in a Rush Turnaround Surcharge.	
Phone: 440-838-7177 Fax:	Project Number:	Turn Around Time (TAT) in calender days.	

Required Client Information: **Section D**

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM NUMBER	SAMPLE ID (One charater per box.)	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Preservatives: # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: BTEXM 8260	NAP,TMB8260	EDC 8260	EDB 8011	REMARKS / Lab ID
1	MW-19	WT	3/30/22	1100	4				X				X	X	X	X	001
2	MW-13	WT	3/30/22	1105	6				X				X	X	X	X	002
3	MW-14	WT	3/30/22	1110	6				X				X	X	X	X	003
4	MW-16	WT	3/30/22	1115	6				X				X	X	X	X	004
5	MW-12	WT	3/30/22	1120	6				X				X	X	X	X	005
6	MW-15	WT	3/30/22	1125	6				X				X	X	X	X	006
7	MW-17	WT	3/30/22	1130	6				X				X	X	X	X	007
8	MW-18	WT	3/30/22	1135	6				X				X	X	X	X	008
9	TRIP BLANK	WT	3/30/22	0900	3				X				X				009
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
						4-4-22	1225		4-4-22	1225
						4-4-22	1500	UPS		
					UPS	4/5/22	1140		4/5/22	1140

SAMPLE CONDITION:

Temp in C	3
Received on Ice	(Y) N
Sealed Cooler	(Y) N
Sample Intact	(Y) N

SAMPLE NOTES: 2017 BUSTR GROUP 1

Additional Comments:

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Kristen Imburgia
SIGNATURE of SAMPLER	DATE Signed: 3/31/22

Sample Preservation Receipt Form

Client Name: Atlas Project # 40242853

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	6										1						2.5 / 5 / 10
002																	6																2.5 / 5 / 10
003																	6																2.5 / 5 / 10
004																	6																2.5 / 5 / 10
005																	6																2.5 / 5 / 10
006																	6																2.5 / 5 / 10
007																	6										2						2.5 / 5 / 10
008																	6																2.5 / 5 / 10
009																	3																2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
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018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

4/5/22 dgv

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☒Yes ☐No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40242853

40242853

Client Name: Atlas

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z 90E GE3 13 9900 9479

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 107 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 3

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 4/5/22 /Initials: AL

Labeled By Initials: NK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no proj. # 4/5/22 AL
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: L	☐Yes ☒No ☐N/A	12 COC three vials no date 4/5/22 AL
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 467		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page 2 of 2

402463333

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Required Client Information: **Section A**	Required Client Information: **Section B**	Client Information (Check quote/contract):	To Be Completed by Pace Analytical Client: **Section C**
Company: Atlas Technical	Report To: Bethany Weeder	Requested Due Date: Standard	Quote Reference:
Address: 8100 Snowville Road	Copy To: Zac Turner & Sue Sprouse	*TAT:	Project Manager:
Brecksville, Ohio 44141	Invoice To: Bethany & Sue	* Turn around times less than 14 days subject	Project #:
	P.O.	laboratory and contractual obligations and may	Profile #:
	Project Name: Speedway 3642	in a Rush Turnaround Surcharge.	
Phone: 440-838-7177 Fax:	Project Number:	Turn Around Time (TAT) in calendar days.	

Required Client Information: **Section D**

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM NUMBER	SAMPLE ID (One charater per box.)	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Preservatives: # Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Requested Analysis: BTEXM 8260	NAP,TMB 8260	EDC 8260	EDB 8011	REMARKS / Lab ID
1	MW-14	WT	6/8/22	1330	6				X				X	X	X	X	001
2	MW-13	WT	6/8/22	1335	6				X				X	X	X	X	002
3	MW-16	WT	6/8/22	1340	6				X				X	X	X	X	003
4	MW-12	WT	6/8/22	1345	6				X				X	X	X	X	004
5	MW-15	WT	6/8/22	1350	6				X				X	X	X	X	005
6	MW-18	WT	6/8/22	1355	6				X				X	X	X	X	006
7	MW-19	WT	6/8/22	1400	6				X				X	X	X	X	007
8	MW-17	WT	6/8/22	1405	6				X				X	X	X	X	008
9	TRIP BLANK	WT	6/8/22	0900	3				X				X				009
10																	
11																	
12																	

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS

ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		6-9-22	1200		6-9-22	1200
		6-9-22	1500	UPS		
		6/10/22	1005		6/10/22	1005

SAMPLE CONDITION:

Temp in C	3.1
Received on Ice	(Y) N
Sealed Cooler	(Y) / N
Sample Intact	(Y) / N

SAMPLE NOTES: 2017 BUSTR GROUP 1

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kristen Imburgia

SIGNATURE of SAMPLER: [signature] DATE Signed: 6/9/22

Sample Preservation Receipt Form

Client Name: Atlas

Project # 410246333

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

	Glass							Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																										6						2.5 / 5 / 10
002																										6						2.5 / 5 / 10
003																										6						2.5 / 5 / 10
004																										6						2.5 / 5 / 10
005																										6						2.5 / 5 / 10
006																										6						2.5 / 5 / 10
007																										6						2.5 / 5 / 10
008																										6						2.5 / 5 / 10
009																										6						2.5 / 5 / 10
010																3																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

6/10/25 AM

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☐Yes ☒No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	40mL amber vial HCL

DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR
Revision: 3 | Effective Date: | Issued by: Green Bay

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40246333

40246333

Client Name: Atlas

Courier: ~~CS Logistics~~ ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

6/10/22 AJ

Tracking #: 12 90E 6F3 13 9347 7307

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 108 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3.1

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 6/10/22 /Initials: AJ

Labeled By Initials: MH

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. no proj. # & ph. 6/10/22 AJ
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 477		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

ATTACHMENT G

DRINKING WATER EVALUATION SUPPORTING DOCUMENTATION

—AN ATLAS COMPANY—

8100 Snowville Road
Brecksville, OH 44141
Telephone 440-838-7177
Fax 440-838-7181
www.atcgroupservices.com

May 7, 2020

Northwestern Water and Sewer District
12560 Middleton Pike
Bowling Green, OH 43402
Phone: (419) 354-9090
E-mail: sgundy@nwwsd.org

ATC Group Services LLC (ATC), on behalf of Speedway LLC, is collecting information regarding potable water resources for the preparation of a Tier 1 Evaluation Report at the request of the Bureau of Underground Storage Tank Regulations (BUSTR), which is a division of the State Fire Marshall. The site for which this information is being collected is **Speedway 3642** located at **939 Dixie Highway,** in **Rossford, Ohio**. The purpose of this survey is to document if the site and surrounding area are supplied potable water by a public water supply system, and if the public water supply system is supplied from a source other than the uppermost saturated zone underlying the underground storage tank site (**939 Dixie Highway, Rossford, Ohio**) and surrounding area according to Ohio Administrative Code (OAC) *1301:7-9-13 (H)*. This survey will also help to determine whether groundwater within the search area may be used in the future as a drinking water source.

Please confirm whether the following properties (within 300 feet of the source) are connected to the public water supply system (i.e., have accounts) by circling yes or no in the table.

Property	Address	Connected to City Water
Residential **City of Rossford**	Brandvold, Brian & Bethany 916 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Commercial **City of Rossford**	Brian International Inc. 859 N. Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Deck, Cynthia L 958 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Commercial **City of Rossford**	DG Rossford LLC. 961 Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Commercial **City of Rossford**	Elyon Enterprise Ltd. 849 Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Commercial **City of Rossford**	Jordan Michael Tersigni LLC. 943 N. Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Kemper, Mills F Jr. 964 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**

Residential **City of Rossford**	Ocheske Bill J & Dawn M. 118 Rossway Avenue, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Rombach Lora J 968 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Ross, Nathan D 120 Rossway Avenue, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Rossview Hills Apartments LLC. 91 Rossway Avenue Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Rossview LLC 80 Rossway Avenue, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Schick, Daniel L & Wanda V. 129 Eagle Point Road. Rossford, Ohio 43460	**Yes** **No**
Commercial **City of Rossford**	Schmidt, Robert A & Linda A. 930 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Vicary, Helen E. 962 N Dixie Highway, Rossford, Ohio 43460	**Yes** **No**
Residential **City of Rossford**	Walters, Judith C Trustee 116 Rossway Avenue, Rossford, Ohio 43460	**Yes** **No**

In addition, please answer the following questions:

1. Is there an ordinance requiring mandatory tie-in to a municipal water system for all properties in the surrounding area? (Circle: Yes or **No**)

   a. If yes, please site the ordinance number.

   b. If yes, please attach a copy of the ordinance or provide information on how we may obtain a copy.

2. Is there an ordinance that prohibits the installation of potable water wells at all properties in the surrounding area? (Circle: Yes or No) Not in our ordinances but check with City of Rossford about this.

3. Are private potable wells allowed within the city limits? (Circle: Yes or No) Unknown. (Check with City of Rossford)

4. Are 100% of the occupied properties within 300 feet of the site tied into a municipal water source? (Circle: Yes or No)

5. Is a municipal water source is readily available for properties within 300 feet of the site? (Circle: Yes or No)

6. What is the source of the potable water? (Circle: Surface Water or Groundwater)

7. What is the name of the potable water source? City of Toledo

8. Is there a wellhead protection plan? (Circle: Yes or No)

9. Where is the well field or public water intake in relation to the site? 10-15 miles away

Please sign and print your name below to verify that the above information is correct to the best of your knowledge.

Signature

Simon Gundy
Print name

Please email (bethany.weeder@atcgs.com) the completed information at your earliest convenience and feel free to send an e-mail if you have any questions. Please provide this information as soon as possible. Thank you for your time and have a great day.

Bethany Weeder
Project Geologist
ATC Group Services

Speedway 3642

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: None

Brian & Bethany Brandvold
916 N Dixie Highway
Rossford, Ohio 43460

Brian Brandvold

Signature of property owner/manager: _____ **Date:** 6-1-20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Daniel & Wanda Schick
129 Eagle Point Road
Rossford, Ohio 43460

Signature of property owner/manager: Wanda Schick **Date:** 6-1-2020

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Elyon Enterprise Ltd.
849 Dixie Highway
Rossford, Ohio 43460

Signature of property owner/manager: _____ **Date:** 6/1/2020

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. **If YES** to #1: Is the water well still in use (if no, please explain)? Y N N/A
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Jordan Michael Tersigni LLC
943 N Dixie Highway
Rossford, Ohio 43460

Signature of property owner/manager: _____ **Date:** 6/4/20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Judith Walters Trustee
116 Rossway Avenue
Rossford, Ohio 43460

Signature of property owner/manager: Judith Walters **Date:** 5-31-20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Lora Rombach
968 N Dixie Highway
Rossford, Ohio 43460

Signature of property owner/manager: Lora J Rombach **Date:** 6/1/20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Robert & Linda Schmidt
930 N Dixie Highway
Rossford, Ohio 43460

Signature of property owner/manager: Robert & Schmidt **Date:** 6/18/20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Rossview Hills Apartments LLC.
91 Rossway Avenue
Rossford, Ohio 43460

Signature of property owner/manager: _____ **Date:** 6/3/20

Speedway #3642
B. Weeder

Enclosure: Self-Addressed Stamped Envelope

Please answer the following questions by circling "Y" (YES) OR "N" (NO).

1. Is a water well installed on your property for drinking, irrigation or other purposes? Y (N) Unsure
2. If **YES** to #1: Is the water well still in use (if no, please explain)? Y N
3. Are you obtaining your drinking water from a municipal or private source (i.e. from the city or village)? (Y) N
4. Are you aware of any water wells in the area (if yes, please explain)? Y (N)

Comments: _____

_____

Rossview LLC.
80 Rossway Avenue
Rossford, Ohio 43460

Signature of property owner/manager: _____ **Date:** 6/3/20

Speedway #3642
B. Weeder

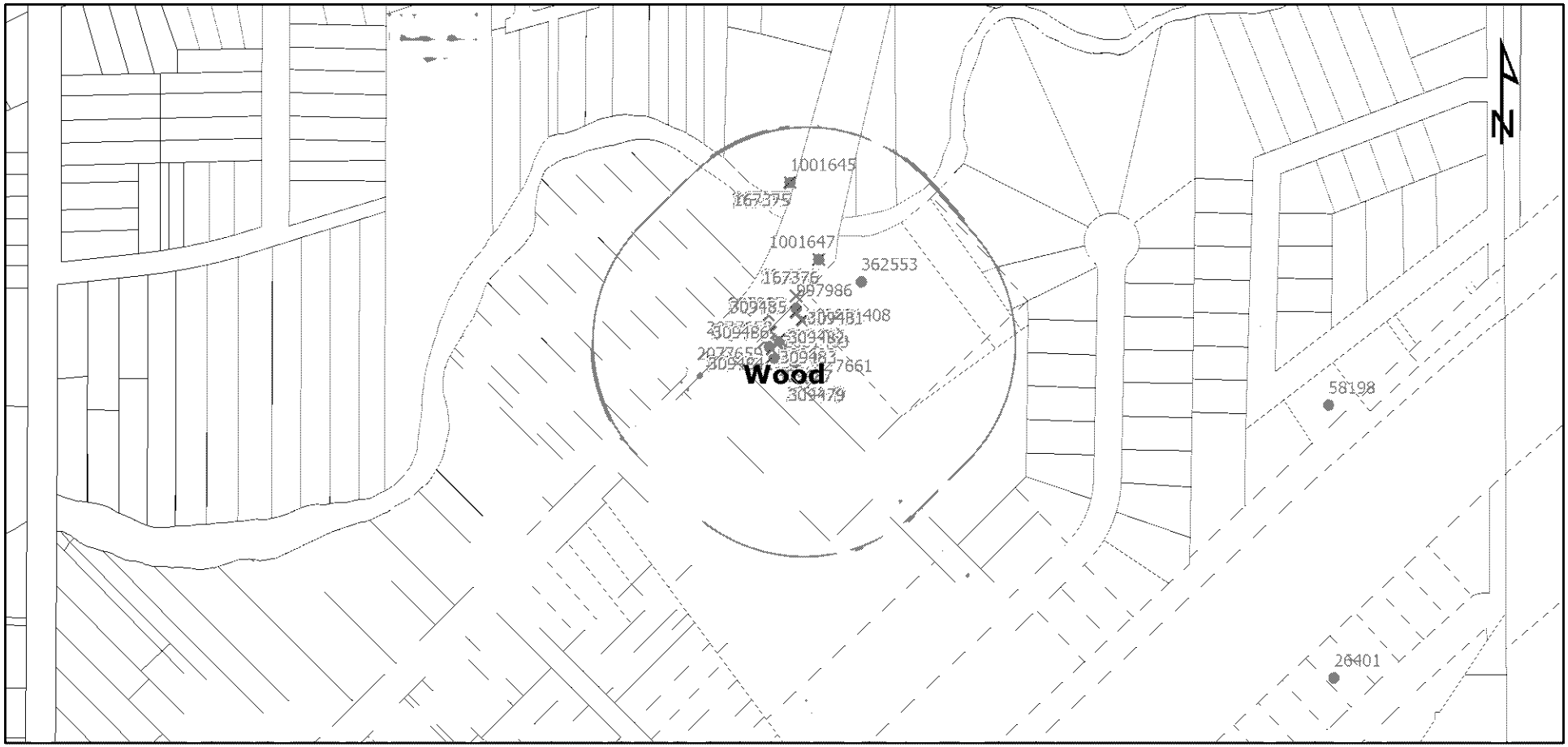
Enclosure: Self-Addressed Stamped Envelope

Speedway 3642 - 300 ft. Radius Letter Recipients					
Address	**Name**	**Parcel Number**	**Connected to City Water**	**Response**	**Comments**
0 N Dixie Highway (133 Osborn St., Rossford OH 43460)	City of Rossford [NR]	T68-300-80041407000	NA	NA	Vacant Land, no letter sent
859 N. Dixie Highway (5062 Secretariat Road, Toledo OH 43615)	Brian International Inc. [NR]	T68-300-800414016000	**Yes** or No	City	Owner Letter came back No Such Number (NSN)
849 Dixie Highway, Rossford OH 43460	Elyon Enterprise Ltd. [NR]	T68-300-800414015201	**Yes** or No	City & Owner	Office Condominiums, Intersecting Land Area Forested?
120 Rossway Ave., Rossford OH 43460	Ross Nathan D [R]	T68-300-800414040000	**Yes** or No	City	
0 N Dixie Highway (118 Rossway Avenue, Rossford OH 43460)	Ocheske Bill J & Dawn M [R]	T68-300-800414039000	**Yes** or No	City	
		T68-300-800414036000			
118 Rossway Avenue, Rossford OH 43460		T68-300-800414038000			
0 Rossway Avenue (118 Rossway Avenue, Rossford OH 43460)		T68-300-800414037000			
0 Rossway Avenue (116 Rossway Avenue, Rossford OH 43460)	Walters Judith C Trustee [R]	T68-300-800414034000	**Yes** or No	City & Owner	
		T68-300-800414033000			
943 N Dixie Highway (806 Starr Avenue, Toledo OH 43605)	Jordan Michael Tersigni LLC [NR]	T68-300-800414018000	**Yes** or No	City & Owner	
0 Rossway Avenue (806 Starr Ave, Toledo OH 43605)		T68-300-800414019000			
		T68-300-800414022000			
80 Rossway Avenue (1090 W South Boundary, Perrysburg OH 43551)	Rossview LLC [R]	T68-300-800414023000	**Yes** or No	City & Owner	Apartments

91 Rossway Avenue (1090 W South Boundary Ste 100, Perrysburg OH 43551)	Rossview Hills Apartments LLC [R]	T68-300-800413003000	**Yes** or No	City & Owner	Apartments
961 Dixie Highway (1316 142 ND Place NE, Bellevue WA 98007)	HMKS 2019 10 LLC [NR]	T68-300-800413004500	**Yes** or No	City	Rossford Lanes Bowling Alley gone, DORN also lists property as being with DG Rossford LLC
0 Dixie Highway (2152 14th Circle North, Saint Petersburg, FL 33713)	DG Rossford LLC [NR]	T68-300-800413004501			Dollar General, Owner Letter came back No Such Number (NSN)
0 N Dixie Highway (968 Dixie Highway, Rossford OH 43460)	Rombach Lora J [R]	T68-300-800409009000	**Yes** or No	City & Owner	
968 N Dixie Highway, Rossford OH 43460		T68-300-800409008000			
964 N Dixie Highway, Rossford OH 43460	Kemper Mills F Jr [R]	T68-300-800409007000	**Yes** or No	City	
0 N Dixie Highway (964 N Dixie Highway, Rossford OH 43460)		T68-300-800409006000			
962 N Dixie Highway (101 Conant St., Maumee OH 43537)	Vicary Helen E [R]	T68-300-800409005000	**Yes** or No	City	Owner Letter came back No Such Number (NSN)
916 N Dxiie Highway (3030 South Adrian Highway, Adrian MI 49221)	Brandvold Brian & Bethany [R]	T68-300-800409004000	**Yes** or No	City & Owner	
0 N Dixie Highway (3030 South Adrian Highway, Adrican MI 49221)		T68-300-800409003000			
958 N Dixie Highway (29615 Duxbury Ln, Perrysburg OH 43551)	Deck Cynthia L [R]	T68-300-800409002000	**Yes** or No	City	
		T68-300-800409001000			
129 Eagle Point Road, Rossford OH 43460	Schick Daniel L & Wanda V [R]	T68-300-800408012000	**Yes** or No	City & Owner	
930 N Dixie Highway, Rossford OH 43460	Schmidt Robert A & Linda A [NR]	T68-300-800408001201	**Yes** or No	City & Owner	Office Condominiums

ODNR Water Wells Within 300 Feet of Site

Speedway #3642



Statewide Parcels
Current Township
Counties
Sealing Reports
Well Logs

July 8, 2022

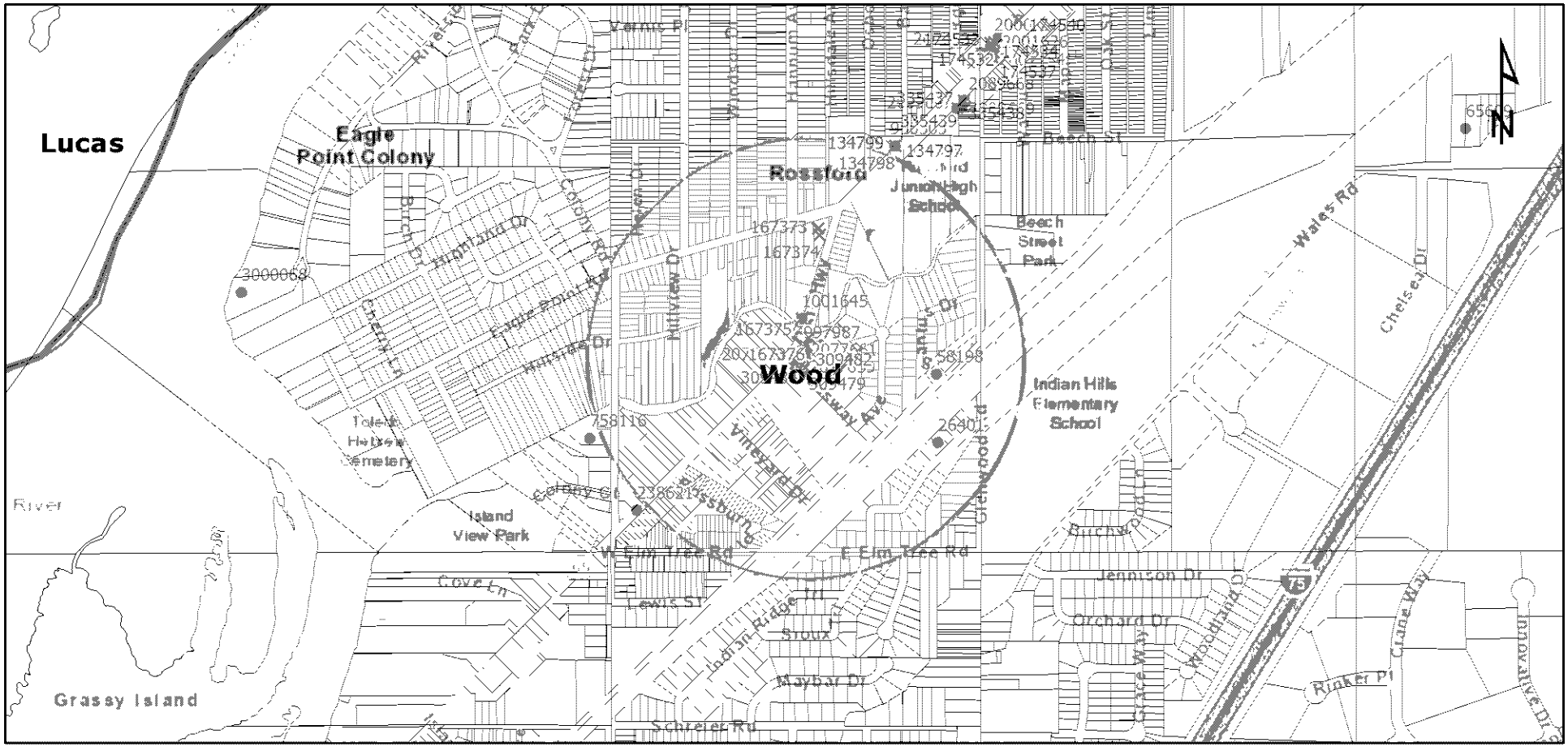
Scale: 1:4,514

0 0.03 0.05 0.1 mi

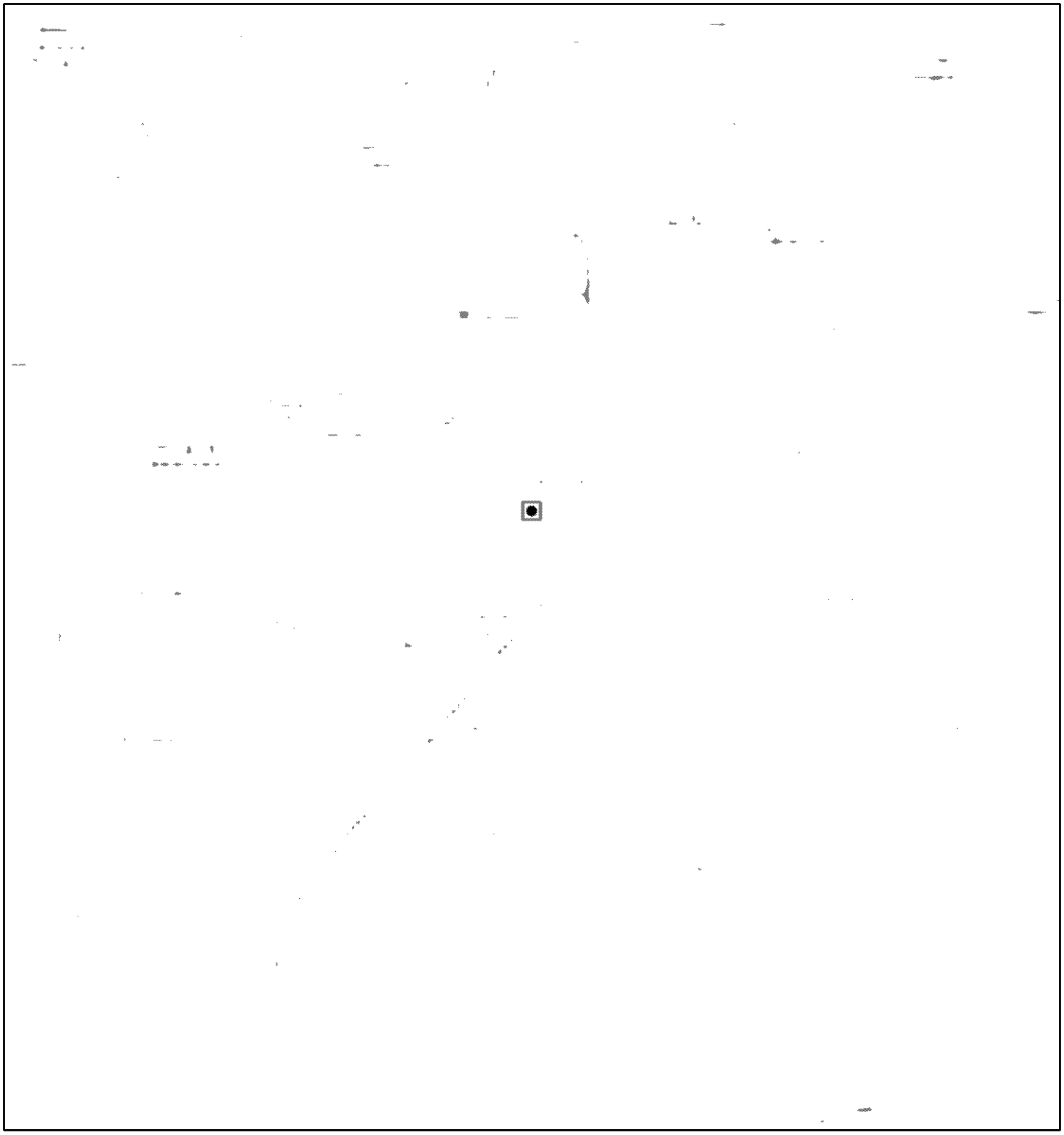
0 0.05 0.1 0.2 km

ODNR Water Wells Within 1500 Feet of Site

Speedway #3642



Speedway #3642 - Drinking Water Source Protection Area Map



7/12/2022 9:27:53 AM

1:144,448

0 0.75 1.5 3 mi

0 1.5 3 6 km

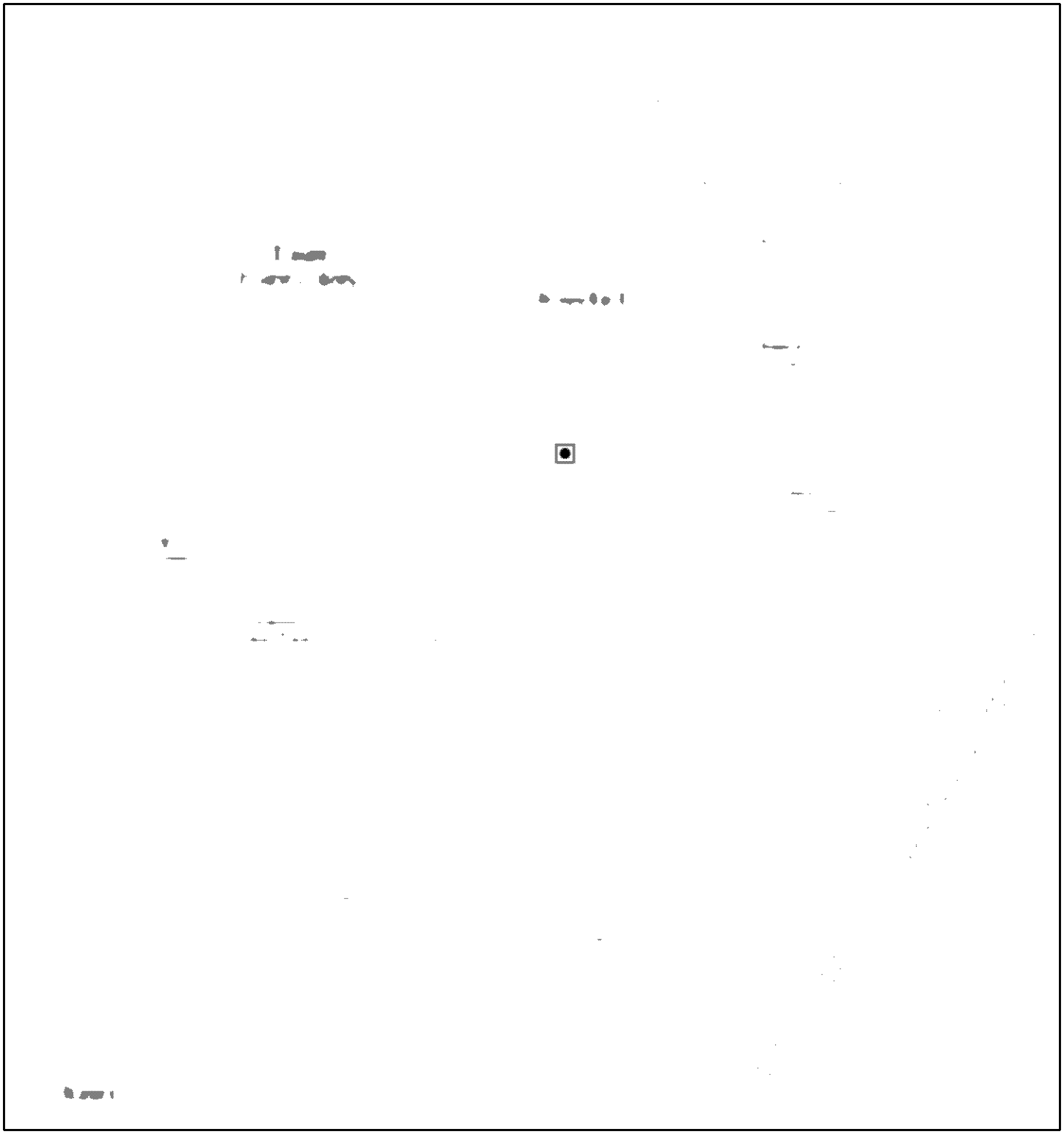
Source Water Protection Area

Inner Management Zone

Division of Drinking and Ground Waters, Ohio EPA, County of Wood, OH, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

Ohio EPA
Division of Drinking and Ground Waters

Speedway 3642 - Urban Setting Designation Map



5/6/2020 10:43:55 AM

1:18,056

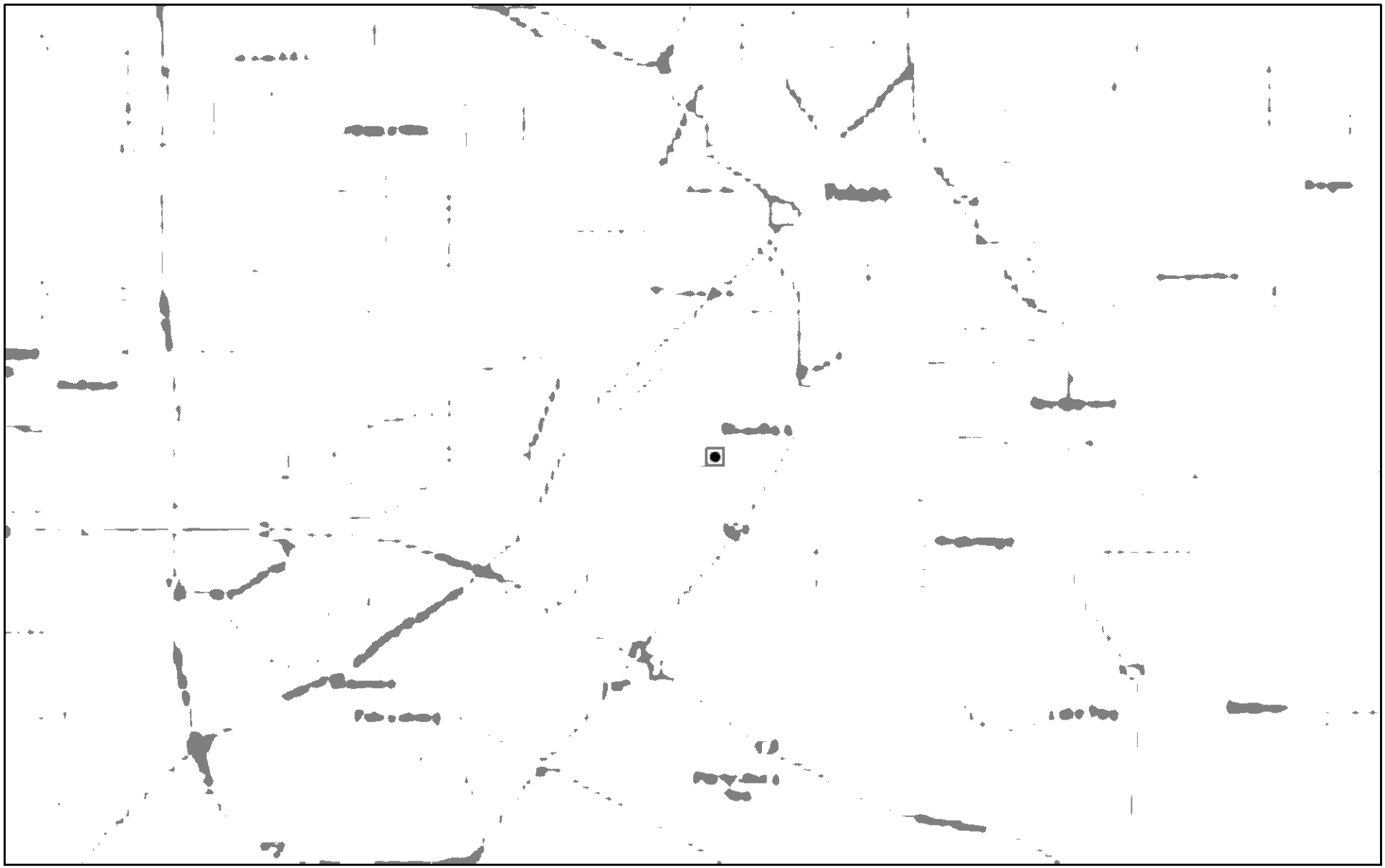
0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Ohio EPA
Division of Environmental Response and Revitalization

Speedway #3642 - Sole Source Aquifer Map



7/12/2022 9:31:12 AM

1:144,448

0 0.75 1.5 3 mi

0 1.5 3 6 km

County of Wood, Esri, HERE, Garmin, NGA, USGS, NPS

U.S. Environmental Protection Agency

Speedway #3642 - Wells Within 1500 Feet of Site

Record No	Street Number	Street Name	County	Township	Owner First Name	Owner Last Name	Static Water Level	Test Rate	Aquifer Type	Total Depth	Bedrock Depth	Well Use	Comp. Date	Latitude	Longitude	Comments
2081403	939	DIXIE	WOOD	ROSS		SPEEDWAY	0		CLAY	13		MONITOR	8/18/2020	41.60504	-83.56254	
2077661	939	DIXIE	WOOD	ROSS		SPEEDWAY	8		CLAY	13		MONITOR	1/9/2020	41.60501	-83.56243	
2077659	939	DIXIE	WOOD	ROSS		SPEEDWAY	11		CLAY	15		MONITOR	1/8/2020	41.60504	-83.56256	
1001647	904	DIXIE	WOOD	ROSS		GAS STATI(	0		CLAY	19		MONITOR	3/1/2006	41.60553	-83.56227	7-11 MW-4, Sealed 12/18/2006
1001645	904	DIXIE	WOOD	ROSS		GAS STATI(	0			19		MONITOR	3/1/2006	41.60591	-83.56246	7-11 MW-3, Sealed 12/18/2006
997987	939	DIXIE	CLARK	SPRINGFIEL		SPEEDWAY				14		MONITOR	1/17/2006	41.60529	-83.56242	
362553		DIXIE HIGH	WOOD	ROSS	AMEIL	MATHIS	75	20	LIMESTONI	201	77	DOMESTIC	4/16/1968	41.60542	-83.56199	
58198			WOOD	ROSS	RUDY	SANTUS	110	15	LIMESTONI	168	70	DOMESTIC	10/2/1950	41.60481	-83.5589	
26401		GLENWOO	WOOD	ROSS	ANTHONY	PASTOREK	55	10	LIMESTONI	178	68	DOMESTIC	11/21/1947	41.60346	-83.55887	
2081408	939	DIXIE	WOOD	ROSS		SPEEDWAY	0		CLAY	13		MONITOR	8/18/2020	41.60523	-83.56231	
2081405	393	DIXIE	WOOD	ROSS		SPEEDWAY	0		CLAY	13		MONITOR	8/18/2020	41.6051	-83.5626	
2077658	939	DIXIE	WOOD	ROSS		SPEEDWAY	11		CLAY	15		MONITOR	1/8/2020	41.60513	-83.56252	
997986	939	DIXIE	CLARK	SPRINGFIEL		SPEEDWAY				22		MONITOR	1/17/2006	41.60529	-83.56242	

OHIO WATER RESOURCES BOARD

Well Record No. 122

87 16

Co. Wood Twp. Ross Sec.

Well Location 500' S. of B.&O. RR Size 4" x 72'

racks on Glenwood Rd. Map Toledo

Owner Anthony Pastorek Address Rossford, Ohio

Driller John Bihn and Son Date 11/21/47

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: 10 GPM for 2 hrs.; 70' D.D.

Static Level 55' Date 11/21/47

Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation

Source of Data Bihn

Collected by mt Date Jan 1948

26401 STRATA	DEPTH From	DEPTH To
Blue clay	0	68
Hard gray rock		92
Brown sandstone ← Ls ?		150
Blue rock		160
Gray rock		178
Some water at 80' and 165'		

X= 1,710,400

Y= 707,100-N

* Chief Aquifer

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 26401

Original Owner & Location

Original Owner Name: *ANTHONY PASTOREK*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *GLENWOOD RD*
City:
State: *OH*
Zip Code:
Location Number: *122*
Location Map Year: *1945*
Location Area:
Latitude: *41.603463*
Longitude: *-83.558865*

Construction Details

Borehole Diameter 1: *in.*
Borehole Depth 1: *178 ft.*
Depth to Bedrock: *68 ft.*
Casing Diameter 1: *4 in.*
Casing Length 1: *72 ft.*
Casing Thickness 1: *in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *LIMESTONE*
Well Use: *DOMESTIC*
Date of Completion: *11/21/1947*
Total Depth: *178*
Drilling Company Name:

Well Test Details

Static Water Level: *55 ft.*
Test Rate: *10 gpm*
Drawdown: *70 ft.*
Test Duration: *2 hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	68
LIMESTONE	68	92
SANDSTONE	92	150
LIMESTONE	150	160
LIMESTONE	160	178
WATER AT	0	80
WATER AT	0	165

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Office No. 827 PRES
Log form No. 58198
Quad. Rossford

Co. 57 Wood Twp. 16 Ross Sec.

Owner Rudy Santus
Address Rossford, Ohio
Well location

Construction Details	Pumping Test
Casing: Diam. 4¼ length 72	Rate: 15GPM
Screen:	Hrs: 2
Type of pump:	D. D. 10
Capacity:	S.L. 110
Depth of setting:	Date 10/2/50

Owner's Well No.
Driller John Bihn & Son
Located by JWC Date

Remarks

STRATA	Depth From	Depth To
Elevation		
Blue Clay	0	70
" Shale	70	72
" Limestone	72	116
Brown Limestone	116	160
/	160	168

X= 1,710,500
Y= 708,200-N

* Approximate Location

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 58198

Original Owner & Location

Original Owner Name: *RUDY SANTUS*
Township: *ROSS*
Section Number:
County: *WOOD*
Address:
City:
State: *OH*
Zip Code:
Location Number: *627*
Location Map Year: *1945*
Location Area:
Latitude: *41.604811*
Longitude: *-83.558902*

Construction Details

Borehole Diameter 1: *in.*
Borehole Depth 1: *168 ft.*
Depth to Bedrock: *70 ft.*
Casing Diameter 1: *4.25 in.*
Casing Length 1: *72 ft.*
Casing Thickness 1: *in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *LIMESTONE*
Well Use: *DOMESTIC*
Date of Completion: *10/02/1950*
Total Depth: *168*
Drilling Company Name:

Well Test Details

Static Water Level: *110 ft.*
Test Rate: *15 gpm*
Drawdown: *10 ft.*
Test Duration: *2 hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	45	70
SHALE	70	72
LIMESTONE	72	160
LIMESTONE	160	168

WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

No. 362553

County Wood Township Ross Section of Township Rossford

Owner Ameil Mathis Address 937 Dixie Highway, Rossford, Ohio

Location of property On Dixie Highway next to new A & P Store

CONSTRUCTION DETAILS

Casing diameter 4¼ Length of casing 81' 4"

Type of screen none Length of screen

Type of pump 1/2 H.P. Sub

Capacity of pump 15 G.P.M.

Depth of pump setting 120 ft.

Date of completion 11/30/1967

BAILING OR PUMPING TEST

Pumping Rate 20 G.P.M. Duration of test 3 hrs.

Drawdown 10 ft. Date 11/21/1967

Static level-depth to water 75 ft.

Quality (clear, cloudy, taste, odor) clear

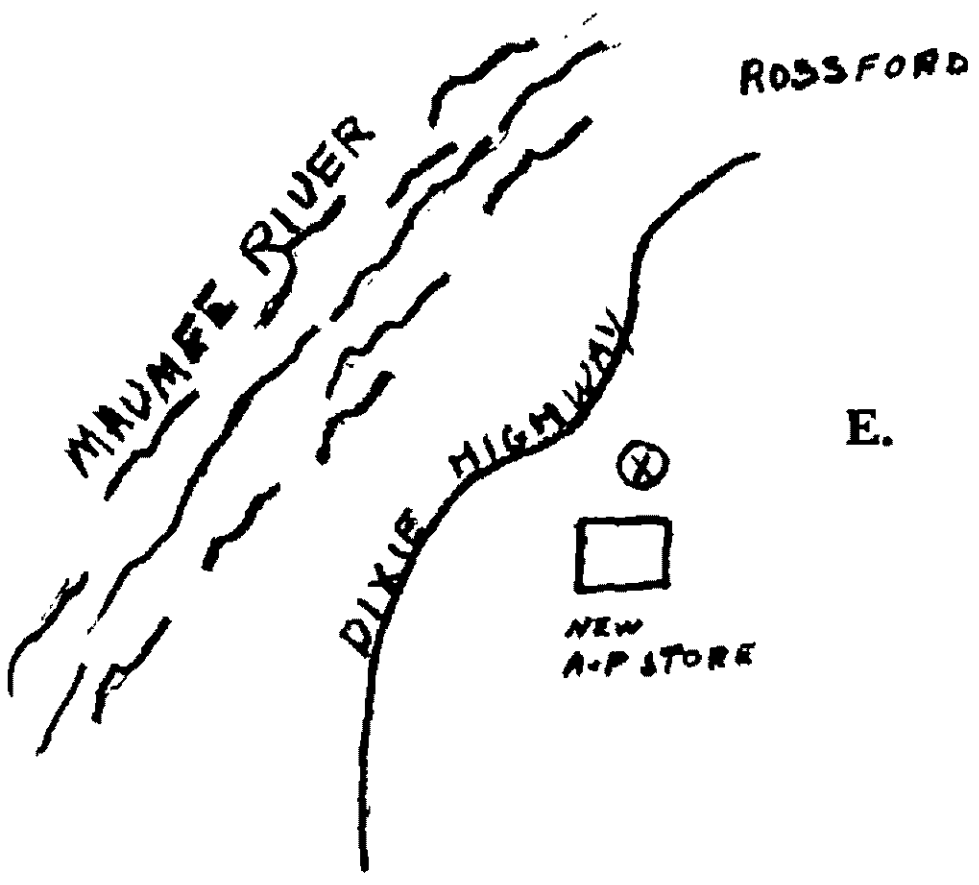
Pump installed by Larson Drilling & MAch. Inc.

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Yellow Clay	0 Feet	18 Ft.
Blue Clay	18 ft.	35 ft
Soft Blue Clay	35 ft.	65 ft
Hard Pan	65 ft.	70 ft
Soft Blue Clay	70 ft.	77 ft
Broken Brown Lime	77 ft.	80 ft
Hard Brown Lime	80 ft.	102 ft
Hard Gray Lime	102 ft.	115 ft
Light Brown Lime	115 ft.	130 ft
Tan Brown Lime	130 ft.	161 ft
Hard Brown Lime	161 ft.	166 ft
Blueish Gray Lime Hard Traverse	166 ft.	191 ft
Light Brown Lime	191 ft.	201 ft

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Larson Drilling & Mach. Inc. Date 4/16/1968

Address 211 W. Sophia St. Maumee, Ohio Signed

112

*If additional space is needed to complete well log, use next consecutive numbered form.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 362553

Original Owner & Location

Original Owner Name: *AMEIL MATHIS*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *DIXIE HIGHWAY HGWY*
City:
State: *OH*
Zip Code:
Location Number: *112*
Location Map Year: *1984*
Location Area:
Latitude: *41.60542*
Longitude: *-83.561989*

Construction Details

Borehole Diameter 1: *in.*
Borehole Depth 1: *201 ft.*
Depth to Bedrock: *77 ft.*
Casing Diameter 1: *4.25 in.*
Casing Length 1: *82 ft.*
Casing Thickness 1: *in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *LIMESTONE*
Well Use: *DOMESTIC*
Date of Completion: *04/16/1968*
Total Depth: *201*
Drilling Company Name: *LARSON DRILLING & MACHINE INC*

Well Test Details

Static Water Level: *75 ft.*
Test Rate: *20 gpm*
Drawdown: *10 ft.*
Test Duration: *3 hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	18
CLAY	18	35
CLAY	35	65
HARDPAN	65	70
CLAY	70	77
LIMESTONE	77	80
LIMESTONE	80	102
LIMESTONE	102	115
LIMESTONE	115	130
LIMESTONE	130	161
LIMESTONE	161	166
LIMESTONE	166	191
LIMESTONE	191	201

DNR 7802.05

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

0997986

WELL LOCATION

County Ottawa Township ~~Carroll~~ Springfield

Owner/Builder (Circle One or Both) Speedway (First) Retail Store (Last)

Address of Well Location 939 (Number) Dixie Hwy (Street Name)

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N X +/- ft. or m

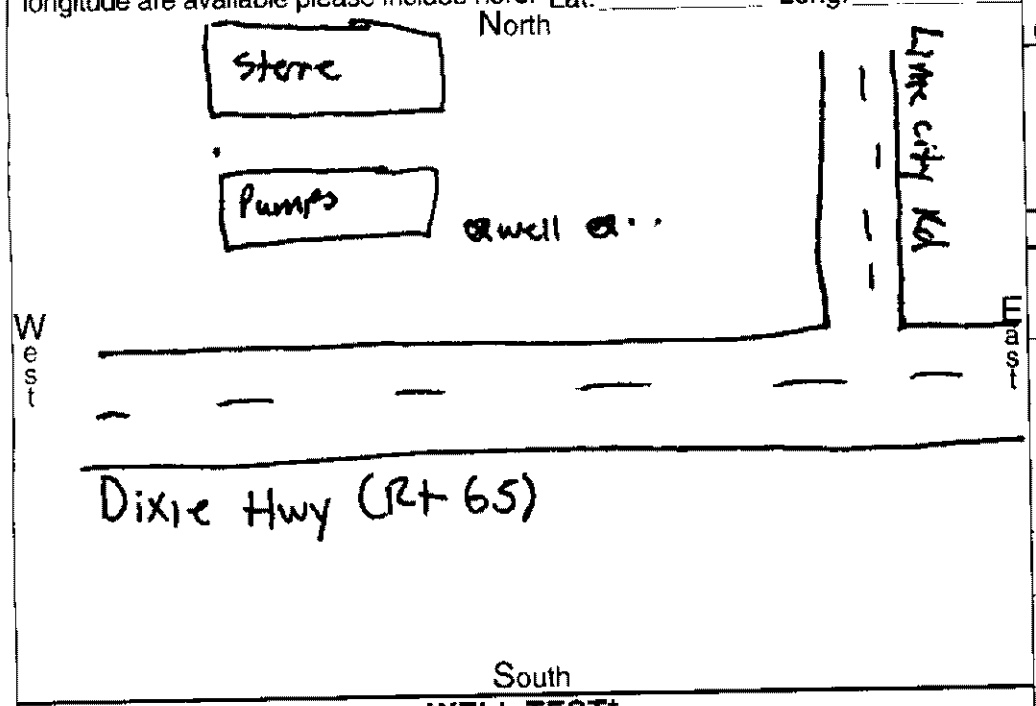
S Y +/- ft. or m

Elevation of Well +/- ft. or m

Datum Plain: NAD27 NAD83 Elevation Source

Source of Coordinates: GPS Survey Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level ft. Date

Measured from: Top of Casing Ground Level Other

Air Bailing Pumping* Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record per section 1521.05, ORC)

Is Copy Attached? Yes No Flowing Well? Yes No

Quality N/A

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Pitless Type N/A

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling SVC

Address 1519 Alum Creek Dr

City, State, Zip Columbus OH 43209

Signed Date 1-23-06

ODH Registration Number

CONSTRUCTION DETAILS

Rotary Cable Augered Driven Other

BOREHOLE/CASING (measured from ground surface)

1 Borehole Diameter 8 inches Depth 22 ft.

Casing Diameter 2" in. Length 12 ft. Thickness in.

2 Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type 1 Steel 2 Galv. 1 PVC 2 Other

Joints 1 Threaded 2 Welded 1 Solvent 2 Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.

Type Slotted Material PVC

Set Between 22' ft. and 12' ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 300 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 22 ft. TO 10 ft.

GROUT

Material Bentonite chips Volume/Weight Used 100 lbs

Method of Installation Poured through H.S.A

Depth: Placed FROM 10 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Asphalt & Base	0	1
Brown silty clay	1	5
Gray silty clay	5	22

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 1-17-06 Total Depth of Well 22 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 997986

Original Owner & Location

Original Owner Name: *SPEEDWAY RETAIL* **Township:** *SPRINGFIELD* **Section Number:**
County: *CLARK*
Address: *939 DIXIE HGWY*
City: *ROSSFORD* **State:** *OH* **Zip Code:**
Location Number: **Location Map Year:** **Location Area:**
Latitude: *41.60529* **Longitude:** *-83.56242*

Construction Details

Borehole Diameter 1: *8 in.* **Borehole Depth 1:** *22 ft.* **Depth to Bedrock:** *ft.*
Casing Diameter 1: *2 in.* **Casing Length 1:** *12 ft.* **Casing Thickness 1:** *in.*
Casing Height Above Ground: *ft.* **Aquifer Type:** **Well Use:** *MONITOR*
Date of Completion: *01/17/2006* **Total Depth:** *22*
Drilling Company Name: *BELASCO DRILLING INC*
Screen Diameter: *0 in.* **Slot Size:** *0.01 in.* **Screen Length:** *0 ft.*
Type: **Material:**
Set Between: *12 and 22 ft.*

Well Test Details

Static Water Level: *ft.* **Test Rate:** *gpm*
Drawdown: *ft.* **Test Duration:** *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	1	5
CLAY	5	22

DNR 7802.05

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

0997987

WELL LOCATION

County Ottawa Township Springfield

Owner/Builder (Circle One or Both) Speedway First Retail Store Last

Address of Well Location 939 Number Dixie Hwy Street Name

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N X . +/- ft. or m

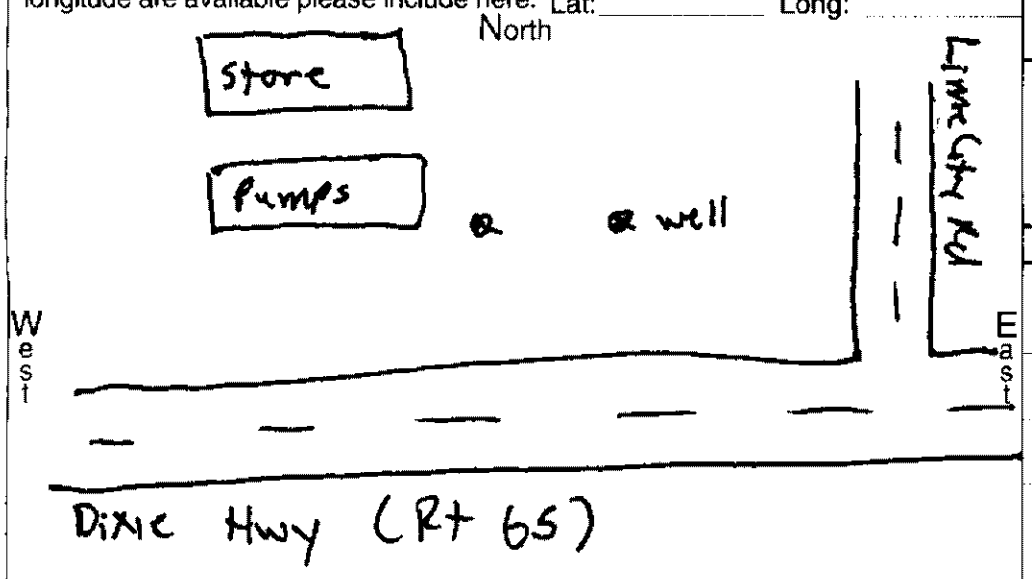
S Y . +/- ft. or m

Elevation of Well . +/- ft. or m

Datum Plain: NAD27 NAD83 Elevation Source

Source of Coordinates: GPS Survey Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level ft. Date

Measured from: Top of Casing Ground Level Other

Air Bailing Pumping* Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? Yes No Flowing Well? Yes No

Quality N/A

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Press Type N/A

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Belasco Drilling LLC

Address 1519 Alum Creek Dr

City, State, Zip Columbus OH 43209

Signed Date 1-23-06

ODH Registration Number

CONSTRUCTION DETAILS

Rotary Cable Augered Driven Other

BOREHOLE/CASING (measured from ground surface)

1 Borehole Diameter 8 inches Depth 14 ft.

Casing Diameter 2 in. Length 4 ft. Thickness in.

2 Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground ft.

Type 1 Steel 2 1 Galv. 2 1 PVC 2 1 2 Other

Joints 1 Threaded 2 1 Welded 2 1 Solvent 2 1 2 Other

SCREEN

Diameter 2" Slot Size .010 Screen Length 10 ft.

Type slotted Material PVC

Set Between 14 ft. and 4 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Volume/Weight Used 250 lbs

Method of Installation Poured through HSA

Depth: Placed FROM 14 ft. TO 3 ft.

GROUT

Material Bentonite Chips Volume/Weight Used 50 lbs

Method of Installation Poured through HSA

Depth: Placed FROM 3 ft. TO 1 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Asphalt & Base	0	1
Brown sand	1	5
Gray silty clay	5	14

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 1-17-06 Total Depth of Well 14 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 997987

Original Owner & Location

Original Owner Name: *SPEEDWAY* | **Township:** *SPRINGFIELD* | **Section Number:**
County: *CLARK*
Address: *939 DIXIE HGWY*
City: *ROSSFORD* | **State:** *OH* | **Zip Code:**
Location Number: | **Location Map Year:** | **Location Area:**
Latitude: *41.60529* | **Longitude:** *-83.56242*

Construction Details

Borehole Diameter 1: *8 in.* | **Borehole Depth 1:** *14 ft.* | **Depth to Bedrock:** *ft.*
Casing Diameter 1: *2 in.* | **Casing Length 1:** *4 ft.* | **Casing Thickness 1:** *in.*
Casing Height Above Ground: *ft.* | **Aquifer Type:** | **Well Use:** *MONITOR*
Date of Completion: *01/17/2006* | **Total Depth:** *14*
Drilling Company Name: *BELASCO DRILLING INC*
Screen Diameter: *0 in.* | **Slot Size:** *0.01 in.* | **Screen Length:** *0 ft.*
Type: | **Material:**
Set Between: *4 and 14 ft.*

Well Test Details

Static Water Level: *ft.* | **Test Rate:** *gpm*
Drawdown: *ft.* | **Test Duration:** *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
SAND	1	5
CLAY	5	14

DNR 7802.05

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

1001645

WELL LOCATION

County ~~Lucas~~ Wood Township Ross

Owner/Builder (Circle One or Both) First: Former Last: gas station

Address of Well Location: Number 904 Street Name Dixie Hwy

City Rossford Zip Code +4

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N ☐ X ____ +/- ____ ft. or m

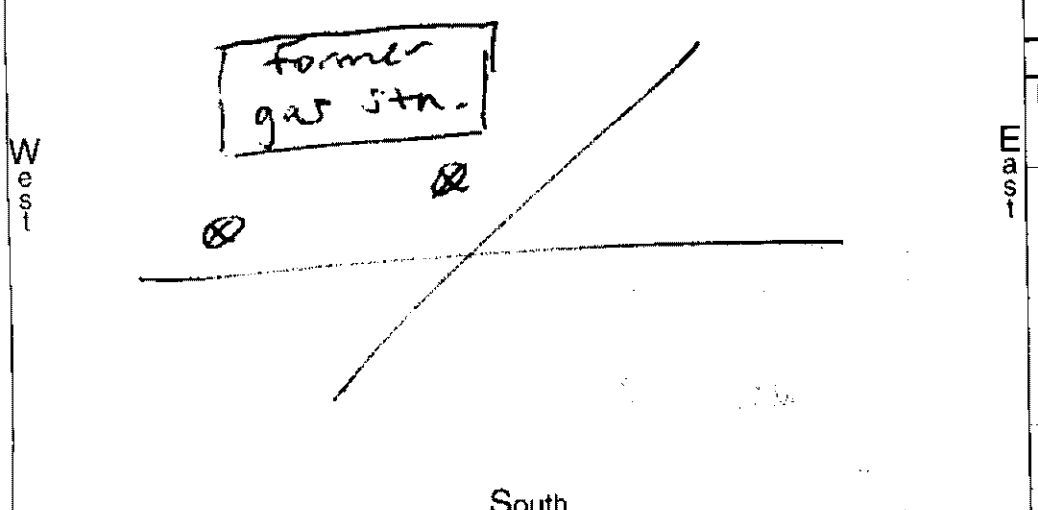
S ☐ Y ____ +/- ____ ft. or m

Elevation of Well ____ +/- ____ ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level 0 ft. Date 3/1/06

Measured from: ☒ Top of Casing ☐ Ground Level ☐ Other

☐ Air ☐ Bailing ☐ Pumping* ☐ Other

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Enviro Cone Ltd.

Address 6250 Estates Pkwy #C

City, State, Zip Plain City OH 43064

Signed Joe Fleck Date 3/26/06

ODH Registration Number

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8¼ inches Depth 19 ft.
Casing Diameter 2 in. Length 9 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.
Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground 0' ft.

Type: 1 ☐ 2 ☐ Steel; 1 ☐ 2 ☐ Galv.; 1 ☒ 2 ☐ PVC; 1 ☐ 2 ☐ Other

Joints: 1 ☒ 2 ☐ Threaded; 1 ☐ 2 ☐ Welded; 1 ☐ 2 ☐ Solvent; 1 ☐ 2 ☐ Other

SCREEN

Diameter 2" Slot Size 10 Screen Length 10 ft.
Type Flush joint Material PVC
Set Between 9 ft. and 19 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 sand Volume/Weight Used 300#
Method of Installation poured thru augers
Depth: Placed FROM 19 ft. TO 3' ft.

GROUT

Material bentonite Volume/Weight Used 75#
Method of Installation poured from surface
Depth: Placed FROM 3 ft. TO 0' ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
brown clay	0	8'
around 8' clay became wet		
8 - 16' brown clay very moist / wet	8	16'
Same as above	16	19'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 3/1/06 Total Depth of Well 16 19 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 1001645

Original Owner & Location

Original Owner Name: *GAS STATION*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *904 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code:
Location Number:
Location Map Year:
Location Area:
Latitude: *41.60591*
Longitude: *-83.56246*

Construction Details

Borehole Diameter 1: *8 in.*
Borehole Depth 1: *19 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *9 ft.*
Casing Thickness 1: *in.*
Casing Height Above Ground: *0 ft.*
Aquifer Type:
Well Use: *MONITOR*
Date of Completion: *03/01/2006*
Total Depth: *19*
Drilling Company Name: *ENVIROCORE INC*
Screen Diameter: *0 in.*
Slot Size: *0 in.*
Screen Length: *0 ft.*
Type:
Material:
Set Between: *4 and 19 ft.*

Well Test Details

Static Water Level: *0 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	8
CLAY	8	16
CLAY	16	19

DNR 7802.05

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

1001647

WELL LOCATION

County Wood Township ~~not known~~ Ross

Owner/Builder (Circle One or Both) First Former Last gas station

Address of Well Location 904 Number Dixie Hwy Street Name

City Rossford Zip Code +4 43460

Permit No. Section/Lot No. (Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Monitoring

N ☐ X . +/- ft. or m

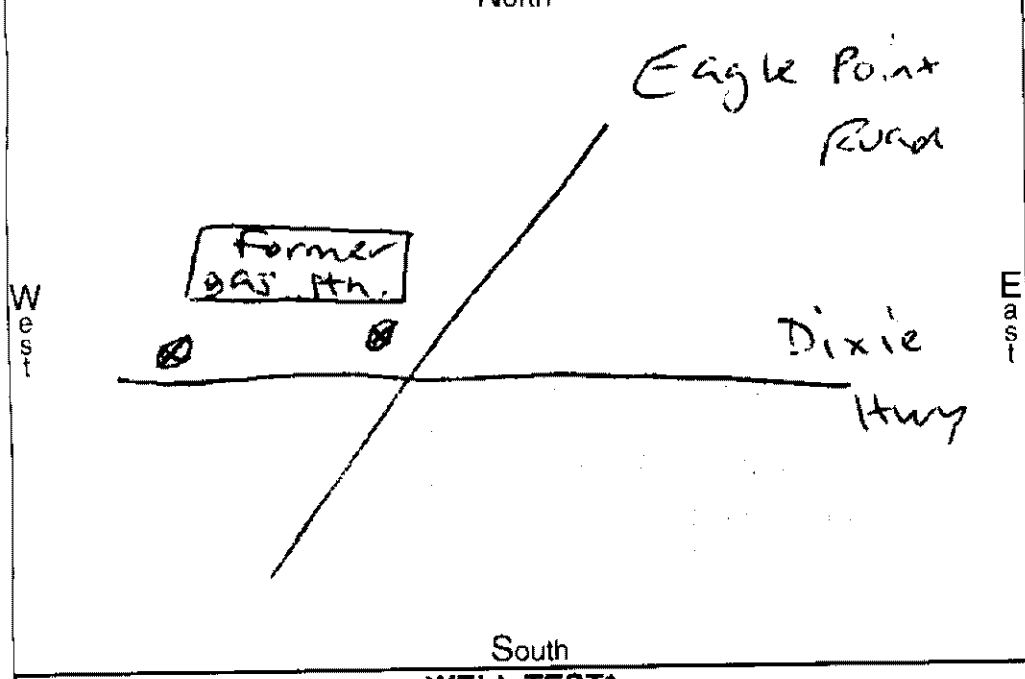
S ☐ Y . +/- ft. or m

Elevation of Well . +/- ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source

Source of Coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: Long:



WELL TEST*

Pre-Pumping Static Level 0 ft. Date 3/1/06

Measured from: ☒ Top of Casing ☐ Ground Level ☐ Other

☐ Air ☐ Bailing ☐ Pumping* ☐ Other

Test Rate gpm Duration of Test hrs.

Feet of Drawdown ft. Sustainable Yield gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality

PUMP/PITLESS

Type of pump Capacity gpm

Pump set at ft. Pitless Type

Pump installed by

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm Enviro Core Ltd.

Address 8250 Estates Pkwy #C

City, State, Zip Plain City OH 43064

Signed Joe Flack Date 3/26/06

ODH Registration Number

CONSTRUCTION DETAILS

☐ Rotary ☐ Cable ☒ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 8 3/4 inches Depth ~~16~~ 19 ft.

Casing Diameter 2 in. Length 6 ft. Thickness in.

2 ☐ Borehole Diameter inches Depth ft.

Casing Diameter in. Length ft. Thickness in.

Casing Height Above Ground 0 ft.

Type 1 ☐ 2 ☐ Steel 1 ☐ 2 ☐ Galv. 1 ☒ 2 ☐ PVC 1 ☐ 2 ☐ Other

Joints 1 ☒ 2 ☐ Threaded 1 ☐ 2 ☐ Welded 1 ☐ 2 ☐ Solvent 1 ☐ 2 ☐ Other

SCREEN

Diameter 2 Slot Size 10 Screen Length 10 ft.

Type Flush thread Material PVC

Set Between 16 ft. and ~~6~~ 5 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 sand Volume/Weight Used 300 #

Method of Installation poured thru auger

Depth: Placed FROM 16 ft. TO ~~4~~ 3 ft.

GROUT

Material bentonite Volume/Weight Used 100 #

Method of Installation poured thru rods

Depth: Placed FROM ~~4~~ 3 ft. TO 0 ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
0 - 8' brown clay	0	8'
8' clay turned wet		
8 - 16' brown clay very wet / moist	8	16'

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion ~~3/1/06~~ 3/1/06 Total Depth of Well 19 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 1001647

Original Owner & Location

Original Owner Name: *GAS STATION*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *904 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code: *43460*
Location Number:
Location Map Year:
Location Area:
Latitude: *41.60553*
Longitude: *-83.56227*

Construction Details

Borehole Diameter 1: *8 in.*
Borehole Depth 1: *19 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *6 ft.*
Casing Thickness 1: *in.*
Casing Height Above Ground: *0 ft.*
Aquifer Type: *CLAY*
Well Use: *MONITOR*
Date of Completion: *03/01/2006*
Total Depth: *19*
Drilling Company Name: *ENVIROCORE INC*
Screen Diameter: *0 in.*
Slot Size: *0 in.*
Screen Length: *0 ft.*
Type:
Material:
Set Between: *5 and 16 ft.*

Well Test Details

Static Water Level: *0 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	8
CLAY	8	16

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2077658
Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY LLC
Owner/Builder

939 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. _____ Section; _____ and or Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605125 Longitude: -83.562523

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 11 ft. Date 1/8/2020

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ENVIROCORE, INC.

Address ESTATES PK

City, State, Zip PLAIN CITY OH 43064

Signed JOE FLECK (Filed Electronically) Date 1/16/2020

ODH Registration Number 003259

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 15 ft.
Casing Diameter 2 in. Length 4.5 ft. Thickness 0.125 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground _____ ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.1 in. Screen Length 10 ft.

Type PREPACKED SLOTTED Material PVC

Set Between 5 ft. and 15 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Vol/Wt. Used 50

Method of Installation Poured (gravity)

Depth: Placed From: 3 ft. To: 15 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 20 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 3 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN	SILTY	CLAY	0	15
		Water Encountered At	11	15

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 1/8/2020 Total Depth of Well 15 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2077658

Original Owner & Location

Original Owner Name: *SPEEDWAY LLC* | **Township:** *ROSS* | **Section Number:**
County: *WOOD*
Address: *939 DIXIE HGWY*
City: *ROSSFORD* | **State:** *OH* | **Zip Code:** *43460*
Location Number: | **Location Map Year:** | **Location Area:**
Latitude: *41.605125* | **Longitude:** *-83.562523*

Construction Details

Borehole Diameter 1: *3.25 in.* | **Borehole Depth 1:** *15 ft.* | **Depth to Bedrock:** *ft.*
Casing Diameter 1: *2 in.* | **Casing Length 1:** *4.5 ft.* | **Casing Thickness 1:** *0.125 in.*
Casing Height Above Ground: *ft.* | **Aquifer Type:** *CLAY* | **Well Use:** *MONITOR*
Date of Completion: *01/08/2020* | **Total Depth:** *15*
Drilling Company Name: *ENVIROCORE INC*
Screen Diameter: *2 in.* | **Slot Size:** *0.1 in.* | **Screen Length:** *0 ft.*
Type: *Prepacked Slotted* | **Material:** *PVC*
Set Between: *5 and 15 ft.*
Gravel Pack Material/Size: *#5* | **Vol/Wt Used:** *50*
Method of Installation: *Poured (gravity)* | **Placed:** *3 to 15 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks* | **Vol/Wt Used:** *20 lbs*
Method of Installation: *Poured (gravity)* | **Placed:** *0.5 to 3 ft.*

Well Test Details

Static Water Level: *11 ft.* | **Test Rate:** *gpm*
Drawdown: *ft.* | **Test Duration:** *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	15
WATER AT	11	15

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2077659

Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY LLC
Owner/Builder

939 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. _____ Section; _____ and or Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605043 Longitude: -83.562564

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 11 ft. Date 1/8/2020

Measured from GROUND LEVEL

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ENVIROCORE, INC.

Address ESTATES PK

City, State, Zip PLAIN CITY OH 43064

Signed JOE FLECK (Filed Electronically) Date 1/16/2020

ODH Registration Number 003259

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 15 ft.
Casing Diameter 2 in. Length 4.5 ft. Thickness 0.125 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground _____ ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type PREPACKED SLOTTED Material PVC

Set Between 5 ft. and 15 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Vol/Wt. Used 50

Method of Installation Poured (gravity)

Depth: Placed From: 3 ft. To: 15 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 20 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 3 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN	SILTY	CLAY	0	15
		Water Encountered At	11	15

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 1/8/2020 Total Depth of Well 15 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2077659

Original Owner & Location

Original Owner Name: *SPEEDWAY LLC*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *939 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code: *43460*
Location Number:
Location Map Year:
Location Area:
Latitude: *41.605043*
Longitude: *-83.562564*

Construction Details

Borehole Diameter 1: *3.25 in.*
Borehole Depth 1: *15 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *4.5 ft.*
Casing Thickness 1: *0.125 in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *CLAY*
Well Use: *MONITOR*
Date of Completion: *01/08/2020*
Total Depth: *15*
Drilling Company Name: *ENVIROCORE INC*
Screen Diameter: *2 in.*
Slot Size: *0.01 in.*
Screen Length: *0 ft.*
Type: *Prepacked Slotted*
Material: *PVC*
Set Between: *5 and 15 ft.*
Gravel Pack Material/Size: *#5*
Vol/Wt Used: *50*
Method of Installation: *Poured (gravity)*
Placed: *3 to 15 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks*
Vol/Wt Used: *20 lbs*
Method of Installation: *Poured (gravity)*
Placed: *0.5 to 3 ft.*

Well Test Details

Static Water Level: *11 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	15
WATER AT	11	15

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2077661
Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY LLC
Owner/Builder

939 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. ____ Section; ____ and or Lot No. ____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X ____ +/- ____ ft.

S ☐ Y ____ +/- ____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605014 Longitude: -83.562426

Elevation of Well in feet: ____ +/- ____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source ____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 8 ft. Date 1/9/2020

Measured from GROUND LEVEL

Pumping test method ____

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump ____ Capacity ____ gpm

Pump set at ____ ft. Pitless Type ____

Pump installed by ____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm ENVIROCORE, INC.

Address ESTATES PK

City, State, Zip PLAIN CITY OH 43064

Signed JOE FLECK (Filed Electronically) Date 1/16/2020

ODH Registration Number 003259

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 13 ft.
Casing Diameter 2 in. Length 2.5 ft. Thickness 0.125 in.

2 Borehole Diameter ____ inches Depth ____ ft.
Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground ____ ft.

Type 1: PVC
Type 2: ____

Joints 1: Threaded
Joints 2: ____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type PREPACKED SLOTTED Material PVC

Set Between 3 ft. and 13 ft.

GRAVEL PACK (Filter Pack)

Material/Size #5 Vol/Wt. Used 50

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 13 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 12 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 2 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
BROWN	SILTY	CLAY	0	13
		Water Encountered At	8	13

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 1/9/2020 Total Depth of Well 13 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2077661

Original Owner & Location

Original Owner Name: *SPEEDWAY LLC* | **Township:** *ROSS* | **Section Number:**
County: *WOOD*
Address: *939 DIXIE HGWY*
City: *ROSSFORD* | **State:** *OH* | **Zip Code:** *43460*
Location Number: | **Location Map Year:** | **Location Area:**
Latitude: *41.605014* | **Longitude:** *-83.562426*

Construction Details

Borehole Diameter 1: *3.25 in.* | **Borehole Depth 1:** *13 ft.* | **Depth to Bedrock:** *ft.*
Casing Diameter 1: *2 in.* | **Casing Length 1:** *2.5 ft.* | **Casing Thickness 1:** *0.125 in.*
Casing Height Above Ground: *ft.* | **Aquifer Type:** *CLAY* | **Well Use:** *MONITOR*
Date of Completion: *01/09/2020* | **Total Depth:** *13*
Drilling Company Name: *ENVIROCORE INC*
Screen Diameter: *2 in.* | **Slot Size:** *0.01 in.* | **Screen Length:** *0 ft.*
Type: *Prepacked Slotted* | **Material:** *PVC*
Set Between: *3 and 13 ft.*
Gravel Pack Material/Size: *#5* | **Vol/Wt Used:** *50*
Method of Installation: *Poured (gravity)* | **Placed:** *2 to 13 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks* | **Vol/Wt Used:** *12 lbs*
Method of Installation: *Poured (gravity)* | **Placed:** *0.5 to 2 ft.*

Well Test Details

Static Water Level: *8 ft.* | **Test Rate:** *gpm*
Drawdown: *ft.* | **Test Duration:** *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
CLAY	0	13
WATER AT	8	13

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2081403
Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY
Owner/Builder

939 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. ____ Section; ____ and or Lot No. ____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X ____ +/- ____ ft.

S ☐ Y ____ +/- ____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605042 Longitude: -83.562535

Elevation of Well in feet: ____ +/- ____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source ____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:
SW OF SW CANOPY CORNER & MW-12
WELL ID MW-16

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 0 ft. Date ____

Measured from ____

Pumping test method ____

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump ____ Capacity ____ gpm

Pump set at ____ ft. Pitless Type ____

Pump installed by ____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm TERRA PROBE

Address 9209 WHITEFORD RD

City, State, Zip OTTAWA LAKE MI 49267

Signed STEVE OBERLE Date 8/24/2020
(Filed Electronically)

ODH Registration Number N/A

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 13 ft.
Casing Diameter 2 in. Length 13 ft. Thickness 0.154 in.

2 Borehole Diameter ____ inches Depth ____ ft.
Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground ____ ft.

Type 1: PVC
Type 2: ____

Joints 1: Threaded
Joints 2: ____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 3 ft. and 13 ft.

GRAVEL PACK (Filter Pack)

Material/Size 10/20 Vol/Wt. Used 50 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 13 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 30 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 2 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
GRAY	SOFT	SILT AND CLAY	0	2
GRAY	SOFT	CLAY	2	10
GRAY	SOFT	SILT AND CLAY	10	12
GRAY	SOFT	CLAY	12	13

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 8/18/2020 Total Depth of Well 13 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2081403

Original Owner & Location

Original Owner Name: *SPEEDWAY*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *939 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code: *43460*
Location Number:
Location Map Year:
Location Area:
Latitude: *41.605042*
Longitude: *-83.562535*

Construction Details

Borehole Diameter 1: *3.25 in.*
Borehole Depth 1: *13 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *13 ft.*
Casing Thickness 1: *0.154 in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *CLAY*
Well Use: *MONITOR*
Date of Completion: *08/18/2020*
Total Depth: *13*
Drilling Company Name: *TERRA PROBE*
Screen Diameter: *2 in.*
Slot Size: *0.01 in.*
Screen Length: *0 ft.*
Type: *Machine Slotted*
Material: *PVC*
Set Between: *3 and 13 ft.*
Gravel Pack Material/Size: *10/20*
Vol/Wt Used: *50 lbs*
Method of Installation: *Poured (gravity)*
Placed: *2 to 13 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks*
Vol/Wt Used: *30 lbs*
Method of Installation: *Poured (gravity)*
Placed: *0.5 to 2 ft.*

Well Test Details

Static Water Level: *0 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
SILT & CLAY	0	2
CLAY	2	10
SILT & CLAY	10	12
CLAY	12	13

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2081405
Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY
Owner/Builder

393 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. _____ Section; _____ and or Lot No. _____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X _____ +/- _____ ft.

S ☐ Y _____ +/- _____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605099 Longitude: -83.562596

Elevation of Well in feet: _____ +/- _____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source _____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:
SW OF SW CANOPY CORNER & MW-12

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 0 ft. Date _____

Measured from _____

Pumping test method _____

Test Rate _____ gpm Duration of Test _____ hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm TERRA PROBE

Address 9209 WHITEFORD RD

City, State, Zip OTTAWA LAKE MI 49267

Signed STEVE OBERLE Date 8/24/2020
(Filed Electronically)

ODH Registration Number N/A

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 13 ft.
Casing Diameter 2 in. Length 13 ft. Thickness 0.154 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground _____ ft.

Type 1: PVC
Type 2: _____

Joints 1: Threaded
Joints 2: _____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 3 ft. and 13 ft.

GRAVEL PACK (Filter Pack)

Material/Size 10/20 Vol/Wt. Used 50 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 13 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 30 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 2 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
GRAY	SOFT	SILT AND CLAY	0	2
GRAY	SOFT	CLAY	2	10
GRAY	SOFT	SILT AND CLAY	10	12
GRAY	SOFT	CLAY	12	13

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 8/18/2020 Total Depth of Well 13 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2081405

Original Owner & Location

Original Owner Name: *SPEEDWAY*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *393 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code: *43460*
Location Number:
Location Map Year:
Location Area:
Latitude: *41.605099*
Longitude: *-83.562596*

Construction Details

Borehole Diameter 1: *3.25 in.*
Borehole Depth 1: *13 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *13 ft.*
Casing Thickness 1: *0.154 in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *CLAY*
Well Use: *MONITOR*
Date of Completion: *08/18/2020*
Total Depth: *13*
Drilling Company Name: *TERRA PROBE*
Screen Diameter: *2 in.*
Slot Size: *0.01 in.*
Screen Length: *0 ft.*
Type: *Machine Slotted*
Material: *PVC*
Set Between: *3 and 13 ft.*
Gravel Pack Material/Size: *10/20*
Vol/Wt Used: *50 lbs*
Method of Installation: *Poured (gravity)*
Placed: *2 to 13 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks*
Vol/Wt Used: *30 lbs*
Method of Installation: *Poured (gravity)*
Placed: *0.5 to 2 ft.*

Well Test Details

Static Water Level: *0 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
SILT & CLAY	0	2
CLAY	2	10
SILT & CLAY	10	12
CLAY	12	13

DNR 7802.05e

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2081408
Page 1 of 1 for this record.

WELL LOCATION

County WOOD Township ROSS

SPEEDWAY
Owner/Builder

939 DIXIE HGWY
Address of Well Location

City ROSSFORD Zip Code +4 43460

Permit No. ____ Section; ____ and or Lot No. ____

Use of Well MONITOR

Coordinates of Well (Use only one of the below coordinate systems)

State Plane Coordinates

N ☐ X ____ +/- ____ ft.

S ☐ Y ____ +/- ____ ft.

Latitude, Longitude Coordinates

Latitude: 41.605232 Longitude: -83.562306

Elevation of Well in feet: ____ +/- ____ ft.

Datum Plane: ☐ NAD27 ☒ NAD83 Elevation Source ____

Source of Coordinates: GLOBAL POSITIONING SYSTEM

Well location written description:
SW OF SW CANOPY CORNER & MW-12

Comments on water quality/quantity and well construction:

WELL TEST *

Pre-Pumping Static Level 0 ft. Date ____

Measured from ____

Pumping test method ____

Test Rate ____ gpm Duration of Test ____ hrs.

Feet of Drawdown ____ ft. Sustainable Yield ____ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? ☐ Yes ☒ No Flowing Well? ☐ Yes ☒ No

PUMP/PITLESS

Type of pump ____ Capacity ____ gpm

Pump set at ____ ft. Pitless Type ____

Pump installed by ____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm TERRA PROBE

Address 9209 WHITEFORD RD

City, State, Zip OTTAWA LAKE MI 49267

Signed STEVE OBERLE Date 8/24/2020
(Filed Electronically)

ODH Registration Number N/A

CONSTRUCTION DETAILS

Drilling Method: DIRECT PUSH

BOREHOLE/CASING (Measured from ground surface)

1 Borehole Diameter 3.25 inches Depth 13 ft.
Casing Diameter 2 in. Length 13 ft. Thickness 0.154 in.

2 Borehole Diameter ____ inches Depth ____ ft.
Casing Diameter ____ in. Length ____ ft. Thickness ____ in.

Casing Height Above Ground ____ ft.

Type 1: PVC
Type 2: ____

Joints 1: Threaded
Joints 2: ____

SCREEN

Diameter 2 in. Slot Size 0.01 in. Screen Length 10 ft.

Type MACHINE SLOTTED Material PVC

Set Between 3 ft. and 13 ft.

GRAVEL PACK (Filter Pack)

Material/Size 10/20 Vol/Wt. Used 50 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 2 ft. To: 13 ft.

GROUT

Material Bentonite pellets/chunks Vol/Wt. Used 30 lbs

Method of Installation Poured (gravity)

Depth: Placed From: 0.5 ft. To: 2 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
GRAY	SOFT	SILT AND CLAY	0	2
GRAY	SOFT	CLAY	2	10
GRAY	SOFT	SILT AND CLAY	10	12
GRAY	SOFT	CLAY	12	13

Aquifer Type (Formation producing the most water.) CLAY

Date of Well Completion 8/18/2020 Total Depth of Well 13 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Deptartment.

WATER WELL LOG & DRILLING REPORT

Ohio Department of Natural Resources
Division of Geological Survey
Phone: 614-265-6740

Well Log Number: 2081408

Original Owner & Location

Original Owner Name: *SPEEDWAY*
Township: *ROSS*
Section Number:
County: *WOOD*
Address: *939 DIXIE HGWY*
City: *ROSSFORD*
State: *OH*
Zip Code: *43460*
Location Number:
Location Map Year:
Location Area:
Latitude: *41.605232*
Longitude: *-83.562306*

Construction Details

Borehole Diameter 1: *3.25 in.*
Borehole Depth 1: *13 ft.*
Depth to Bedrock: *ft.*
Casing Diameter 1: *2 in.*
Casing Length 1: *13 ft.*
Casing Thickness 1: *0.154 in.*
Casing Height Above Ground: *ft.*
Aquifer Type: *CLAY*
Well Use: *MONITOR*
Date of Completion: *08/18/2020*
Total Depth: *13*
Drilling Company Name: *TERRA PROBE*
Screen Diameter: *2 in.*
Slot Size: *0.01 in.*
Screen Length: *0 ft.*
Type: *Machine Slotted*
Material: *PVC*
Set Between: *3 and 13 ft.*
Gravel Pack Material/Size: *10/20*
Vol/Wt Used: *50 lbs*
Method of Installation: *Poured (gravity)*
Placed: *2 to 13 ft.*
Grout Material/Size: *Bentonite Pellets/Chunks*
Vol/Wt Used: *30 lbs*
Method of Installation: *Poured (gravity)*
Placed: *0.5 to 2 ft.*

Well Test Details

Static Water Level: *0 ft.*
Test Rate: *gpm*
Drawdown: *ft.*
Test Duration: *hrs.*
Associated Documents:

Comments

Drilling Log

Formations:	From:	To:
SILT & CLAY	0	2
CLAY	2	10
SILT & CLAY	10	12
CLAY	12	13

DNR 7810.04

MW-1

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0167373

LOCATION

County Lucas Township _____ Section/Lot Number _____ (Circle One or Both)

Owner/Builder 7-Eleven Convenience Stores #19772 (Circle One or Both)

Address of Well Location 904 (Number) Dixie Hwy (Street Name)

City Rossford Zip Code 43460

Property Location Description: 0 miles ~~N~~ S (n, e, s, w) of Eagle View (nearest intersection) Road

on the ~~N~~ W (n, e, s, w) side of Dixie Highway (road name)

Location of Well in either: State Plane (N ☐ S ☐) X 14|13|62|7.|33| +/- 20 (ft. or m) Y 8|33|34|3.|31| +/- 20 (ft. or m)

OR Latitude/Longitude (Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☒ Degrees Min. Sec.)

Latitude _____ Longitude _____

Elevation of Well 6|11|.|68| +/- 0.01 (ft. or m) Datum Plain: ☐ NAD27 ☐ NAD83

Source of Coordinates: ☐ GPS ☒ Survey ☐ Other _____

ORIGINAL WELL ODNR Well Log Number not known Copy attached? (circle one) Yes or (No)

MEASURED CONSTRUCTION DETAILS MW-1 Date of measurements 12/18/05

Depth of Well 14.25' Static Water Level 5.32

Size of Casing 2-inch i.d. PVC Length of casing 4.25'

Well Condition good

SEALING PROCEDURE

				Sealing Material	Volume
Method of Placement				bentonite chipped	50 lbs.
Placement:	From 14.25'	To 0'			
	From _____	To _____			
	From _____	To _____			

Was Casing Removed? (Yes) or No (circle one)

Condition of Casing good

Perforations: From 0 n/a To n/a

From _____ To _____

Date Sealing Performed 12/18/06

Reason(s) for Sealing monitoring well no longer in use

JRC

CONTRACTOR

Name ENVIRO CORE LLC ODH Registration # n/a (monitoring well)

Address 8250 Estates Pkwy Suite C

City/State/Zip Plain City, OH 43064

Signature Joseph J. Flock

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7810.04

MW-2

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0167374

LOCATION

County Lucas Township _____ Section/Lot Number _____ (Circle One or Both)

Owner/Builder 7-Eleven Convenience Stores #19772 (Circle One or Both)

Address of Well Location 904 (Number) Dixie Highway (Street Name)

City Rossford Zip Code 43460

Property Location Description: 0 miles mm S (n, e, s, w) of Eagle View Road (nearest intersection) on the mm W (n, e, s, w) side of Dixie Hwy (road name)

Location of Well in either: State Plane N ☐ S ☐ X _____ +/- _____ ft. or m Y _____ +/- _____ ft. or m
OR
Latitude/Longitude (Check ONE ☒ In Decimal Degrees ☐ Degrees Minutes ☐ Degrees Min. Sec.) Latitude 41.607563 Longitude -83.561990

Elevation of Well 610.916 +/- 0.01 (ft.) or m Datum Plain: ☐ NAD27 ☐ NAD83

Source of Coordinates: ☐ GPS ☒ Survey ☐ Other _____

ORIGINAL WELL ODNR Well Log Number not known Copy attached? Yes or (No) (circle one)

MEASURED CONSTRUCTION DETAILS

MW-2 Date of measurements 12/18/05

Depth of Well 12.56' Static Water Level 2.56'
Size of Casing 2-inch Length of casing 2.56'
Well Condition good

SEALING PROCEDURE

Method of Placement bentonite chipped Sealing Material 40 lbs Volume

Placement: From 12.56' To 0'
From _____ To _____
From _____ To _____

Was Casing Removed? (Yes) or No (circle one)

Condition of Casing good
Perforations: From n/a To n/a
From _____ To _____

JRC

Date Sealing Performed 12/18/06
Reason(s) for Sealing monitoring well no longer in use

CONTRACTOR

Name ENVIRO CORE LLC ODH Registration # n/a (monitoring well)
Address 8050 Estates Pkwy Suite C
City/State/Zip Plain City, OH 43064

Signature Joseph J. Flack
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
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DNR 7810.04

MW-3

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0167375

LOCATION

County Lucas Township _____ Section/Lot Number _____ (Circle One or Both)

Owner/Builder 7-Eleven Convenience Stores (Circle One or Both)

Address of Well Location 904 (Number) Dixie Hwy (Street Name)

City Rossford Zip Code 43460

Property Location Description: 0 miles S (n, e, s, w) of Eagle View Road (nearest intersection) on the ~~S~~ W (n, e, s, w) side of Dixie Hwy (road name)

Location of Well in either: State Plane N ☐ S ☐ X 14113628 7.114 +/- 20 (ft. or m) Y 18133141 3.415 +/- 20 (ft. or m)
OR Latitude/Longitude {Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☒ Degrees Min. Sec.}
Latitude _____ Longitude _____

Elevation of Well 611.412 +/- 0.01 (ft. or m) Datum Plain: ☐ NAD27 ☐ NAD83

Source of Coordinates: ☐ GPS ☒ Survey ☐ Other _____

ORIGINAL WELL ODNR Well Log Number ~~Not Known~~ 1001645 Copy attached? (circle one) (Yes) or No

MEASURED CONSTRUCTION DETAILS MW-3

Date of measurements 12/18/06

Depth of Well 19.81' Static Water Level 7.54'
Size of Casing 2-inch PVC Length of casing 9.31'
Well Condition good

SEALING PROCEDURE

Method of Placement bentonite chipped Sealing Material 70 lbs Volume

Placement: From 18.8' To 0'
From _____ To _____
From _____ To _____

Was Casing Removed? (Yes) or No (circle one)

Condition of Casing good
Perforations: From 0 n/a To n/a
From _____ To _____

SRC

Date Sealing Performed 12/18/06
Reason(s) for Sealing monitoring well no longer in use

CONTRACTOR

Name ENVIRO CORE LLC ODH Registration # n/a (monitoring well)
Address 8250 Estates Pkwy Suite C
City/State/Zip Plain City, OH 43064

Signature Joseph J. Flack
I hereby certify the information given is accurate and correct to the best of my knowledge.

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DNR 7810.04

WATER WELL SEALING REPORT
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Water
2045 Morse Rd., Bldg B
Columbus, OH 43229-6605
Voice: (614) 265-6740 Fax: (614) 265-6767

0167376

MW-4

LOCATION

County Lucas Township _____ Section/Lot Number _____ (Circle One or Both)

Owner/Builder 7-Eleven Convenience Stores (Circle One or Both)

Address of Well Location 904 (Number) Dixie Hwy (Street Name)

City Rossford Zip Code 43460

Property Location Description: 0 miles W (n, e, s, w) of Eagle View Road (nearest intersection) on the N (n, e, s, w) side of Dixie Hwy (road name)

Location of Well in either: State Plane (N ☐ S ☐) X 4136261.68 +/- 20 (ft or m) Y 8133471.19 +/- 20 (ft or m)
OR
Latitude/Longitude {Check ONE ☐ In Decimal Degrees ☐ Degrees Minutes ☒ Degrees Min. Sec.} Latitude _____ Longitude _____

Elevation of Well 609.010 +/- 0.01 (ft or m) Datum Plain: ☐ NAD27 ☐ NAD83

Source of Coordinates: ☐ GPS ☒ Survey ☐ Other _____

ORIGINAL WELL ODNR Well Log Number ~~not known~~ 100647 Copy attached? (circle one) Yes or No Yes

MEASURED CONSTRUCTION DETAILS MW-4

Date of measurements 12/18/06

Depth of Well 18.96' Static Water Level 8.00'
Size of Casing 2-inch PVC Length of casing 8.96'
Well Condition good

SEALING PROCEDURE

Method of Placement	Sealing Material	Volume
bentonite chipped		75 lbs.

Placement:
From 18.96' To 0'
From _____ To _____
From _____ To _____

Was Casing Removed? Yes or No (circle one)

Condition of Casing good
Perforations: From n/a To n/a
From _____ To _____

JRC

Date Sealing Performed 12/18/06
Reason(s) for Sealing monitoring well no longer in use

CONTRACTOR

Name EnviroCore LLC ODH Registration # n/a (monitoring well)
Address 8250 Estates Pkwy Suite C
City/State/Zip Plain City OH 43064

Signature Joseph J. Flock
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05 (B) (9), Ohio Revised Code - file within 30 days after completion of sealing.
ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 2045 MORSE ROAD, COLS., OHIO 43229-6605
Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309479

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City PRSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X ____ +/- ____ ft. Y ____ +/- ____ ft.
OR
Latitude/Longitude Latitude 41.604946 Longitude -83.56238

Elevation of Well ____ +/- ____ ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number ____ Project Well ID MW-1

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/1/2015
Depth of Well 34 Static Water Level 10.8 ft.
Borehole Depth 34 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 24 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0 ft. To	1 ft.	Concrete	80 LBS	Poured (gravity)
From	1 ft. To	34 ft.	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From	ft. To	ft.			
From	ft. To	ft.			

Condition of Casing ____ Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ____ ft. To ____ ft.

Date Sealing Performed 7/1/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration # ____
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309481

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605268 Longitude -83.56242

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-2

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/1/2015
Depth of Well 40 Static Water Level 20.8 ft.
Borehole Depth 40 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 30 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From 0	To 1		Concrete	80 LBS	Poured (gravity)
From 1	To 40		Bentonite pellets/chunks	100 LBS	Poured (gravity)
From	To				
From	To				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309482

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft. OR Latitude/Longitude Latitude 41.605231 Longitude -83.56238

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS

Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-3

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/1/2015

Depth of Well 40 Static Water Level 21.6 ft.

Borehole Depth 40 Borehole Diameter 8 in.

Casing Diameter 2 Casing Length 30 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From 0	To 1		Concrete	80 LBS	Poured (gravity)
From 1	To 40		Bentonite pellets/chunks	100 LBS	Poured (gravity)
From	To				
From	To				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015

Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #

Address P O BOX 8980

City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309483

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605134 Longitude -83.56253

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-4

MEASURED CONSTRUCTION DETAILS

Date of measurements 7/1/2015
Depth of Well 16 Static Water Level 6.6 ft.
Borehole Depth 16 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 6 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From 0	To	1	Concrete	80 LBS	Poured (gravity)
From 1	To	16	Bentonite pellets/chunks	30 LBS	Poured (gravity)
From	To				
From	To				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309484

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605086 Longitude -83.56258

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-5

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/1/2015
Depth of Well 33 Static Water Level 8.2 ft.
Borehole Depth 33 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 23 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0	To 1	Concrete	80 LBS	Poured (gravity)
From	1	To 33	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From		To			
From		To			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
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Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309485

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.60535 Longitude -83.56242

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-6

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/1/2015
Depth of Well 38 Static Water Level 16.9 ft.
Borehole Depth 38 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 28 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From 0	To	1	Concrete	80 LBS	Poured (gravity)
From 1	To	38	Bentonite pellets/chunks	100 LBS	Poured (gravity)
From	To				
From	To				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/1/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309486

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605255 Longitude -83.5626

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-7

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/2/2015
Depth of Well 19 Static Water Level 7.6 ft.
Borehole Depth 19 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 9 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From 0 ft.	To 1 ft.		Concrete	80 LBS	Poured (gravity)
From 1 ft.	To 19 ft.		Bentonite pellets/chunks	50 LBS	Poured (gravity)
From ft.	To ft.				
From ft.	To ft.				

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309487

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605013 Longitude -83.56262

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-8

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/2/2015
Depth of Well 19 Static Water Level 10.1 ft.
Borehole Depth 19 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 9 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0	To 1	Concrete	80 LBS	Poured (gravity)
From	1	To 19	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From		To			
From		To			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309488

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605122 Longitude -83.56263

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-9

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/2/2015
Depth of Well 14 Static Water Level 6.9 ft.
Borehole Depth 14 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 4 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0	To 1	Concrete	80 LBS	Poured (gravity)
From	1	To 14	Bentonite pellets/chunks	30 LBS	Poured (gravity)
From		To			
From		To			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309489

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X +/- ft. Y +/- ft.
OR
Latitude/Longitude Latitude 41.605173 Longitude -83.56259

Elevation of Well +/- ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number Project Well ID MW-10

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/2/2015
Depth of Well 22 Static Water Level 9.3 ft.
Borehole Depth 22 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 12 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0	To 1	Concrete	80 LBS	Poured (gravity)
From	1	To 22	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From		To			
From		To			

Condition of Casing Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ft. To ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration #
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

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Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

309490

LOCATION

County WOOD Township ROSS Section No. Lot No.

Owner SPEEDWAY SUPERAMERICA LLC

Address of Well Location 939 DIXIE HGWY

City ROSSFORD Zip Code

Well Location Description (120 Characters)

Location of Well in either: State Plane N ☐ S ☐ X ____ +/- ____ ft. Y ____ +/- ____ ft.
OR
Latitude/Longitude Latitude 41.60512 Longitude -83.56255

Elevation of Well ____ +/- ____ ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other MAP-OTHERS
Source of Elevation: ☐ GPS ☐ Survey ☐ Other

WELL IDENTIFICATION ODNR Well Log Number ____ Project Well ID MW-11

MEASURED CONSTRUCTION DETAILS

Date of measurement 7/2/2015
Depth of Well 24 Static Water Level 6.9 ft.
Borehole Depth 24 Borehole Diameter 8 in.
Casing Diameter 2 Casing Length 14 ft. Casing Type PVC

SEALING PROCEDURE

Placement			Sealing Material	Volume/Weight Used Units Required	Placement Method
From	0 ft. To	1 ft.	Concrete	80 LBS	Poured (gravity)
From	1 ft. To	24 ft.	Bentonite pellets/chunks	50 LBS	Poured (gravity)
From	ft. To	ft.			
From	ft. To	ft.			

Condition of Casing ____ Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From ____ ft. To ____ ft.

Date Sealing Performed 7/2/2015
Comments/Reason for Sealing WELL NO LONGER MONITORED

CONTRACTOR

Name SCS ENVIRONMENTAL CONTRACTING ODH Registration # ____
Address P O BOX 8980
City/State/Zip FORT WAYNE, IN 46898

e-Signature CURT LUEBBERT Filed electronically on 8/3/2015
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Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

January 03, 2001

JULIUS BLANCO
SPEEDWAY SUPERAMERICA LLC
PO BOX 1500
SPRINGFIELD OH 45501

SITE: GASTOWN #3642
939 RIVER RD
ROSSFORD OH
WOOD COUNTY
RELEASE #87000087-N00005

RE: SUSPECTED RELEASE DISPROVED

Dear Mr. Blanco:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed the information submitted for the suspected release reported on November 28, 2000, for this site. Based upon the information in the file, BUSTR considers this suspected release disproved and requires no additional work for this incident.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Kelly J. Gill
Corrective Action Supervisor

xc: Site File
Chief John Vedra Rossford Fire Department
Larry Sorrells, RS, MSEPH, Wood County Combined General Health District

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RCRAInfo Facility Information

<< Return

SPEEDWAY 3642 Handler ID: OHD987004082 939 DIXIE HWY ROSSFORD, OH 43460 **County Name:** WOOD **Latitude:** 41.605243 **Longitude:** -83.562732 **Hazardous Waste Generator:** Very Small Quantity Generator **Owner Name:** SPEEDWAY LLC		**You can navigate within the map with your mouse.*

No BIENNIAL REPORT data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BESSE A CHARLES	PO BOX 1500	SPRINGFIELD	OH	45501	937-863-6272	Public
CHARLES BESSE	PO BOX 1500	SPRINGFIELD	OH	45501	937-863-6272	Permit

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE
Very Small Quantity Generator

No PROCESS INFORMATION is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
44711	GASOLINE STATIONS WITH CONVENIENCE STORES

LIST OF WASTE CODES AND DESCRIPTIONS

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE
D018	BENZENE

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Total Number of Facilities Retrieved: 1

Data Refresh Information <https://epa.gov/resources/echo-data/about-the-data#sources>

RMR REGUALTORY FILE REVIEW FORM

RM Number, Tenant/Address:	RM-23, Rossford Laundry & Tan (Formerly known as D&D Cleaners and Laundry Center). 945 Dixie Hwy, Rossford, OH 43460. Parcel number (T68-300-800414018000).
Report Author(s):	Eric P. Slosser
Affiliation:	CAP-STONE & Associates, Inc. dba Stone Environmental Engineering & Science

Certification *(Must be acknowledged by Prequalified Individual)*

☒ I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.

Name:	Eric Slosser	**Signature:**	Eric P. Slosser
Title:	Senior Environmental Scientist	**Date:**	1/6/2023
Email:	ericslosser@stoneenvironmental.com	**Phone:**	614-865-1874

SECTION 1 - BUSTR

BUSTR 1:	Is this a BUSTR site? *	NO
*If answer to BUSTR 1 is NO, skip to Section 2.		
BUSTR 2:	Release investigation in progress on Property?	Choose response.
BUSTR 3:	Does Property have NFA(s)?	Choose response.
BUSTR 4:	Does Property have soils above BUSTR Re-use?	Choose response.
BUSTR 5:	Is Property in BUSTR Enforcement?	Choose response.
BUSTR 6:	Ohio Attorney General's Office involved on Property?	Choose response.
Summary:		

SECTION 2 - OEPA

OEPA 1:	Is this an OEPA site? *	NO
*If answer to OEPA 1 is NO, skip to Section 3.		
OEPA 2:	Does Property have OEPA records?	Choose response.
OEPA 3:	Is Property undergoing OEPA directed actions?	Choose response.
OEPA 4:	Does Property have soils above VAP Residential levels?	Choose response.

OEPA 5:	Does Property have soils above VAP Commercial/Industrial levels?	Choose response.
OEPA 6:	Does Property have NFA or Covenant Not to Sue?	Choose response.
OEPA 7:	Does Property have deed restrictions?	Choose response.
OEPA 8:	Is OEPA Office of Legal Services involved on Property?	Choose response.
OEPA 9:	Is Ohio Attorney General's office involved on Property?	Choose response.
Summary:		

SECTION 3 – USEPA

USEPA 1:	Is this a USEPA site?	YES
*If answer to USEPA 1 is NO, skip remaining questions.		
USEPA 2:	Does Property have USEPA records?	YES
USEPA 3:	Is Property undergoing USEPA directed actions?	NO
USEPA 4:	Does Property have NFRAP?	NO
USEPA 5:	Does Property have deed restrictions and/or contamination left in place?	NO
USEPA 6:	Is US Department of Justice involved on Property?	NO
Summary: The site has a listing for RCRA VSQG and its handler/facility classification is “unspecified universe.” As of 01/06/2023, no violations have been reported in regards to the RCRA VSQG listing. The Waste Code for this facility is F002.		

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RCRAInfo Facility Information

<< Return

D & D CLEANERS Handler ID: OHD147199129 945 S DIXIE HWY ROSSFORD, OH 43460 **County Name:** WOOD **Latitude:** 41.604927 **Longitude:** -83.562771 **Hazardous Waste Generator:** Very Small Quantity Generator **Owner Name:** DURICK GLENN AND DICK GREG		**You can navigate within the map with your mouse.*

No BIENNIAL REPORT data is available for the facility listed above.

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WAGER LEN	945 S DIXIE HWY	ROSSFORD	OH	43460		Public
LEN WAGER	945 S DIXIE HWY	ROSSFORD	OH	43460		Permit

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE
Very Small Quantity Generator

No PROCESS INFORMATION is available for the facility listed above.

No NAICS Codes are available for the facility listed above.

LIST OF WASTE CODES AND DESCRIPTIONS

WASTE CODE	WASTE DESCRIPTION

F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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Total Number of Facilities Retrieved: 1

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