

VAR-District 12/District 3 Environmental Services
Agreement No. 33582, PID 106457

Task Order No. 33582-3
CUY-271-0.00, PID 113799

Quarter 4, 2020 - PIP Inspections and Water Sampling

Prepared for:



Ohio Department of Transportation
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ES Project No.: 13815
Date: 12/21/2020

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1.0 INTRODUCTION

In accordance with the Reconnaissance & Sampling Plan for CUY/SUM-271-0.00/14.87 approved by the Ohio EPA, EnviroScience, Inc. conducted inspections of Potential Impact Points at 24 locations and sampling at four locations along the IR-271 corridor. A Potential Impact Point (PIP) is where a drainage channel exits the ODOT property within the IR-271 project limits. A map of the PIP locations is provided in Appendix A.

2.0 METHODS

EnviroScience inspected each PIP for milky discharge and/or sulfuric odor consistent with slag leachate. Quarterly PIP inspections were conducted within three hours of receiving precipitation that created a measurable discharge. EnviroScience documented the following for each PIP inspection:

- Inspector, Company
- Date of Inspection
- PIP Location ID
- Photographs
- Observation of water color
- Observation of water odor
- Weather conditions

Analytical samples and real time water quality data were collected if a milky white discharge or a sulfuric odor was observed at a PIP. Water samples were collected directly into new laboratory supplied sample containers and immediately placed into a cooler with ice. Analytical samples were hand delivered under chain of custody procedures to Eurofins TestAmerica in North Canton, Ohio and analyzed for:

- Total Dissolved Solids by Method 2540 C-2011
- Sulfate by Method 300.0

Dissolved Oxygen and pH were measured in the field if a milky white discharge or a sulfuric odor was observed at a PIP using a YSI proDSS that was calibrated daily according to the manufacturer's specifications.

3.0 RESULTS

A summary of the visual inspections conducted at each of the 24 PIP locations is provided in Table 1.

Table 1. Summary of PIP Inspections

PIP	Inspector	Company	Date	Water Color	Water Odor	Weather	Sample Collected?
1	Kyle Lawrence	EnviroScience	11/25/20	Clear	No odor	Light Rain	No
2	Kyle Lawrence	EnviroScience	11/25/20	Clear	No odor	Light Rain	No
3	Kyle Lawrence	EnviroScience	11/25/20	Clear	No odor	Light Rain	No
5	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Light rain	No
6	Ben Wilde	EnviroScience	11/25/20	Opaque	Mild sulfur	Moderate rain	Yes
8	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Light Rain	No
9	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Moderate rain	No
10	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Moderate rain	No
11	Kyle Lawrence	EnviroScience	11/25/20	Clear	Mild sulfur	Light Rain	Yes
12	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Light Rain	No
13	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Light Rain	No
14	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Light Rain	No
15	Ben Wilde	EnviroScience	10/29/20	Slightly Cloudy	No odor	Light Rain	No
16	Ben Wilde	EnviroScience	10/29/20	Suspended Solids	No odor	Moderate rain	No
17	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Moderate rain	No
18	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Moderate rain	No
19	Ben Wilde	EnviroScience	10/15/20	Clear	No odor	Moderate rain	No
21	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Moderate rain	No
22	Ben Wilde	EnviroScience	11/25/20	Slightly Cloudy	No odor	Light Rain	No
23	Ben Wilde	EnviroScience	11/25/20	Clear	No odor	Light Rain	No
24	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Light Rain	No
25	Ben Wilde	EnviroScience	10/29/20	Clear	No odor	Light Rain	No
26	Ben Wilde	EnviroScience	11/25/20	Clear	Mild sulfur	Moderate rain	Yes
27	Ben Wilde	EnviroScience	11/25/20	Clear	Mild sulfur	Light Rain	Yes

Photographs of the PIPs are provided in Appendix B and precipitation reports for the sampling days are provided in Appendix C.

A summary of the analytical results and real time water quality data is provided in Table 2.

Table 2. Analytical Results and Real Time Water Quality Data

Sample ID	Analyte	Analysis Method	Screening Criteria	Result	Units
PIP11_112520	Total Dissolved Solids	2540 C-2011	1500	800	mg/L
	Sulfate	300.0	NE	270	mg/L
	pH	Field (YSI)	<6.5 or >9.0	8.04	SU
	Dissolved Oxygen	Field (YSI)	<4.0	11.09	mg/L
PIP11DWS_112520	Total Dissolved Solids	2540 C-2011	1500	1100	mg/L
	Sulfate	300.0	NE	350	mg/L
	pH	Field (YSI)	<6.5 or >9.0	7.35	SU
	Dissolved Oxygen	Field (YSI)	<4.0	10.81	mg/L
PIP6_112520	Total Dissolved Solids	2540 C-2011	1500	2800	mg/L
	Sulfate	300.0	NE	1400	mg/L
	pH	Field (YSI)	<6.5 or >9.0	8.86	SU
	Dissolved Oxygen	Field (YSI)	<4.0	1.3	mg/L
PIP6DWS_112520	Total Dissolved Solids	2540 C-2011	1500	2900	mg/L
	Sulfate	300.0	NE	1300	mg/L
	pH	Field (YSI)	<6.5 or >9.0	NA	SU
	Dissolved Oxygen	Field (YSI)	<4.0	NA	mg/L
PIP26_112520	Total Dissolved Solids	2540 C-2011	1500	540	mg/L
	Sulfate	300.0	NE	88	mg/L
	pH	Field (YSI)	<6.5 or >9.0	8.39	SU
	Dissolved Oxygen	Field (YSI)	<4.0	9.21	mg/L
PIP26DWS_112520	Total Dissolved Solids	2540 C-2011	1500	770	mg/L
	Sulfate	300.0	NE	100	mg/L
	pH	Field (YSI)	<6.5 or >9.0	NA	SU
	Dissolved Oxygen	Field (YSI)	<4.0	NA	mg/L
PIP27_112520*	Total Dissolved Solids	2540 C-2011	1500	2600	mg/L
	Sulfate	300.0	NE	680	mg/L
	pH	Field (YSI)	<6.5 or >9.0	8.94	SU
	Dissolved Oxygen	Field (YSI)	<4.0	8.66	mg/L

* Downstream sample not collected because there was not an adequate volume of water to collect downstream

Bold results exceed water quality screening criteria

NE - Not Established

NA - Data Not Available

SU - Standard Units

Screening criteria for total dissolved solids was exceeded at PIP 6 and PIP 27. Dissolved Oxygen was outside of the screening criteria at PIP 6. All other samples were within their respective screening criteria ranges. In accordance with the Reconnaissance & Sampling Plan for CUY/SUM-271-0.00/14.87, PIP 6 and PIP 27 will be sampled monthly until there are no screening criteria exceedances for four consecutive quarters.

The laboratory report from Eurofins TestAmerica is Provided in Appendix D.

APPENDIX A

Map of PIP Locations

PIP #	Station #	Lat	Long
PIP1	229+64	41.345342	-81.510525
PIP2	246+27	41.349934	-81.510642
PIP3	272+58	41.35671	-81.514418
PIP5	301+93	41.364625	-81.51741
PIP6	302+07	41.364764	-81.515676
PIP8	328+50	41.371554	-81.513428
PIP9	341+56	41.375471	-81.514949
PIP10	350+00	41.377696	-81.514402
PIP11	357+50	41.37962	-81.512492
PIP12	361+00	41.380547	-81.512023
PIP13	363+50	41.381236	-81.511976
PIP14	364+24	41.381434	-81.512173
PIP15	368+50	41.382604	-81.512159
PIP16	377+70	41.385055	-81.511952
PIP17	384+45	41.387142	-81.513131
PIP18	402+18	41.391962	-81.511852
PIP19	409+65	41.393958	-81.511162
PIP21	480+67	41.412965	-81.506717
PIP22	486+35	41.414334	-81.508257
PIP23	499+19	41.4178	-81.509084
PIP24	500+94	41.41843	-81.508099
PIP25	523+45	41.424598	-81.509259
PIP26	529+42	41.426288	-81.508915
PIP27	532+00	41.426539	-81.506963

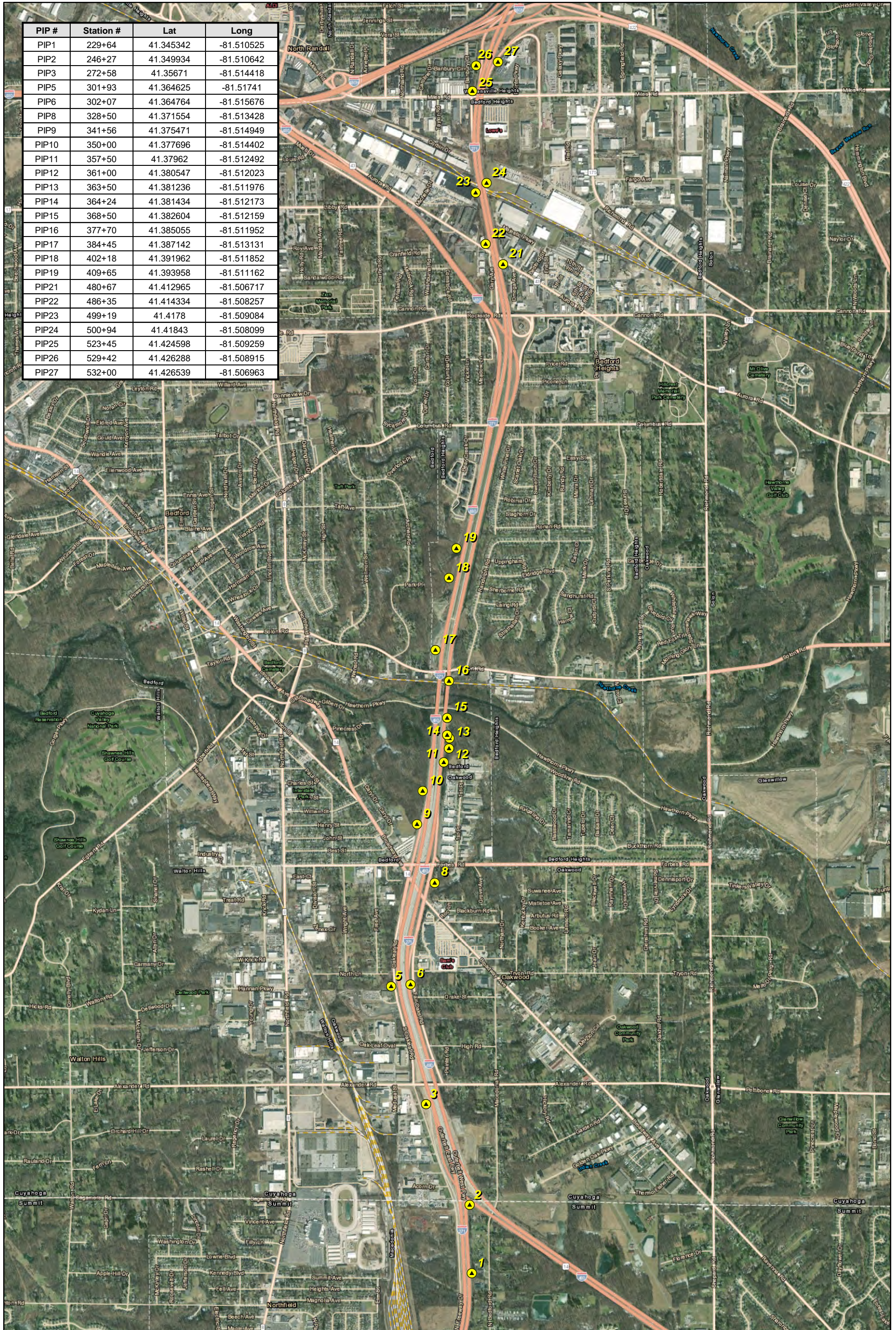
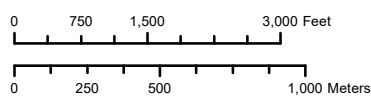


Figure 1. Site Map of Potential Impact Locations, CUY-271-0.00 (PID 80418).

Potential Impact Point



APPENDIX B

PIP Photographs

Q4, 2020 – PIP Inspections



Photo 1. PIP 1 – 11/25/20 – Clear Water, No Odor



Photo 2. PIP 1 – 11/25/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 3. PIP 2 – 11/25/20 – Clear Water, No Odor



Photo 4. PIP 2 – 11/25/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 5. PIP 3 – 11/25/20 – Clear Water, No Odor



Photo 6. PIP 3 – 11/25/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 7. PIP 5 – 10/15/20 – Clear Water, No Odor



Photo 8. PIP 5 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 9. PIP 6 – 11/25/20 – Opaque Water, Mild Sulfur Odor – Sample Collected



Photo 10. PIP 6 – 11/25/20 – Opaque Water, Mild Sulfur Odor – Sample Collected

Q4, 2020 – PIP Inspections



Photo 11. PIP 8 – 10/15/20 – Clear Water, No Odor



Photo 12. PIP 8 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 13. PIP 9 – 10/15/20 – Clear Water, No Odor



Photo 14. PIP 9 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 15. PIP 10 – 10/15/20 – Clear Water, No Odor



Photo 16. PIP 10 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 17. PIP 11 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected



Photo 18. PIP 11 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected

Q4, 2020 – PIP Inspections



Photo 19. PIP 12 – 10/29/20 – Clear Water, No Odor



Photo 20. PIP 12 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 21. PIP 13 – 10/29/20 – Clear Water, No Odor



Photo 22. PIP 13 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 23. PIP 14 – 10/29/20 – Clear Water, No Odor



Photo 24. PIP 14 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 25. PIP 15 – 10/29/20 – Slightly Cloudy Water, No Odor



Photo 26. PIP 15 – 10/29/20 – Slightly Cloudy Water, No Odor

Q4, 2020 – PIP Inspections



Photo 27. PIP 16 – 10/29/20 – Suspended Solids in Water, No Odor



Photo 28. PIP 16 – 10/29/20 – Suspended Solids in Water, No Odor

Q4, 2020 – PIP Inspections



Photo 29. PIP 17 – 10/29/20 – Clear Water, No Odor



Photo 30. PIP 17 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 31. PIP 18 – 10/15/20 – Clear Water, No Odor



Photo 32. PIP 18 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 33. PIP 19 – 10/15/20 – Clear Water, No Odor



Photo 34. PIP 19 – 10/15/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 35. PIP 21 – 10/29/20 – Clear Water, No Odor



Photo 36. PIP 21 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 37. PIP 22 – 11/25/20 – Slightly Cloudy Water, No Odor



Photo 38. PIP 22 – 11/25/20 – Slightly Cloudy Water, No Odor

Q4, 2020 – PIP Inspections



Photo 39. PIP 23 – 11/25/20 – Clear Water, No Odor



Photo 40. PIP 23 – 11/25/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 41. PIP 24 – 10/29/20 – Clear Water, No Odor



Photo 42. PIP 24 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 43. PIP 25 – 10/29/20 – Clear Water, No Odor



Photo 44. PIP 25 – 10/29/20 – Clear Water, No Odor

Q4, 2020 – PIP Inspections



Photo 45. PIP 26 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected



Photo 46. PIP 26 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected

Q4, 2020 – PIP Inspections



Photo 47. PIP 27 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected



Photo 48. PIP 27 – 11/25/20 – Clear Water, Mild Sulfur Odor – Sample Collected

APPENDIX C

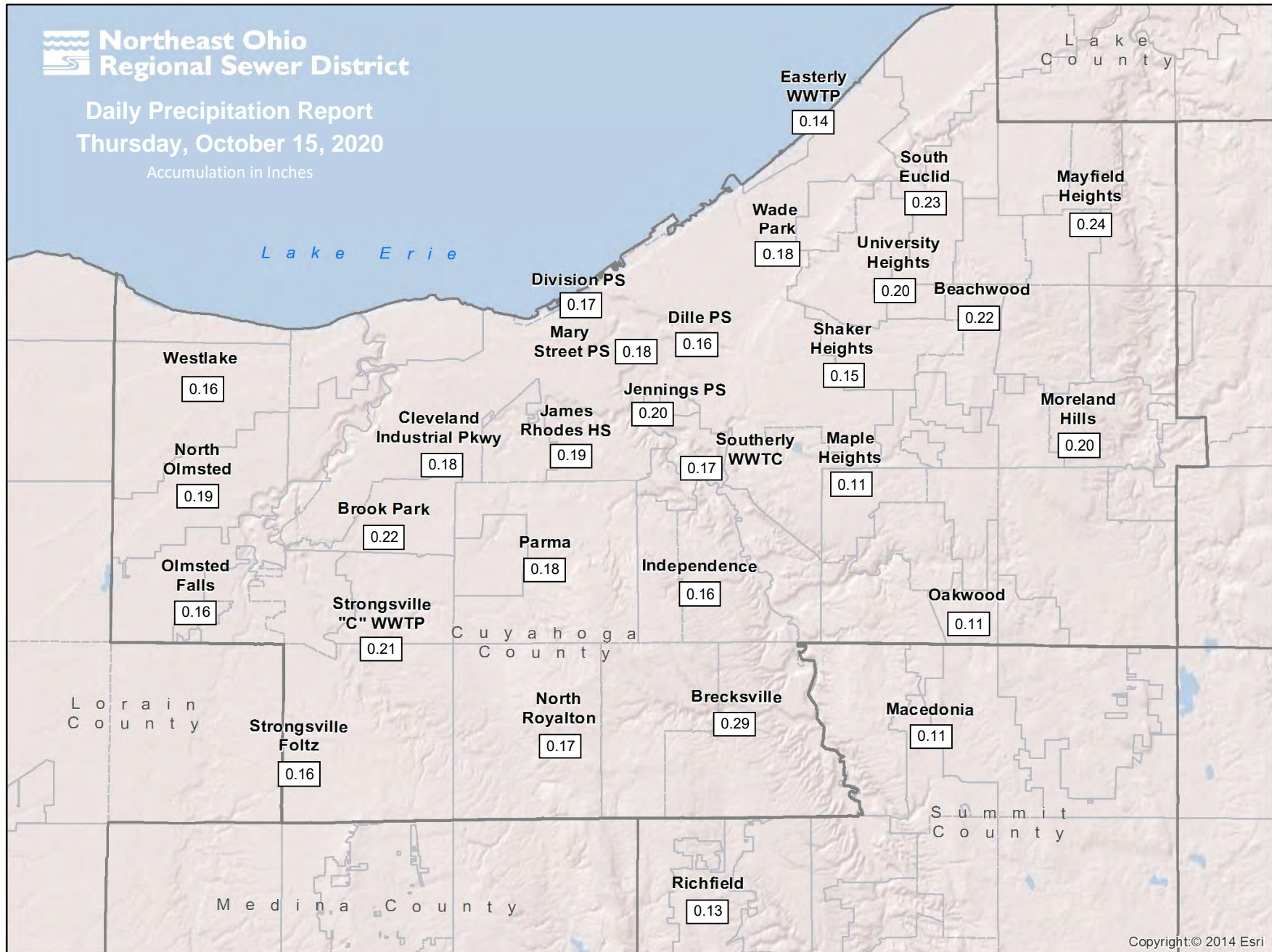
Precipitation Reports



Northeast Ohio Regional Sewer District

Daily Precipitation Report Thursday, October 15, 2020

Accumulation in Inches



Northeast Ohio Regional Sewer District

Daily Precipitation Report

Thursday, October 15, 2020

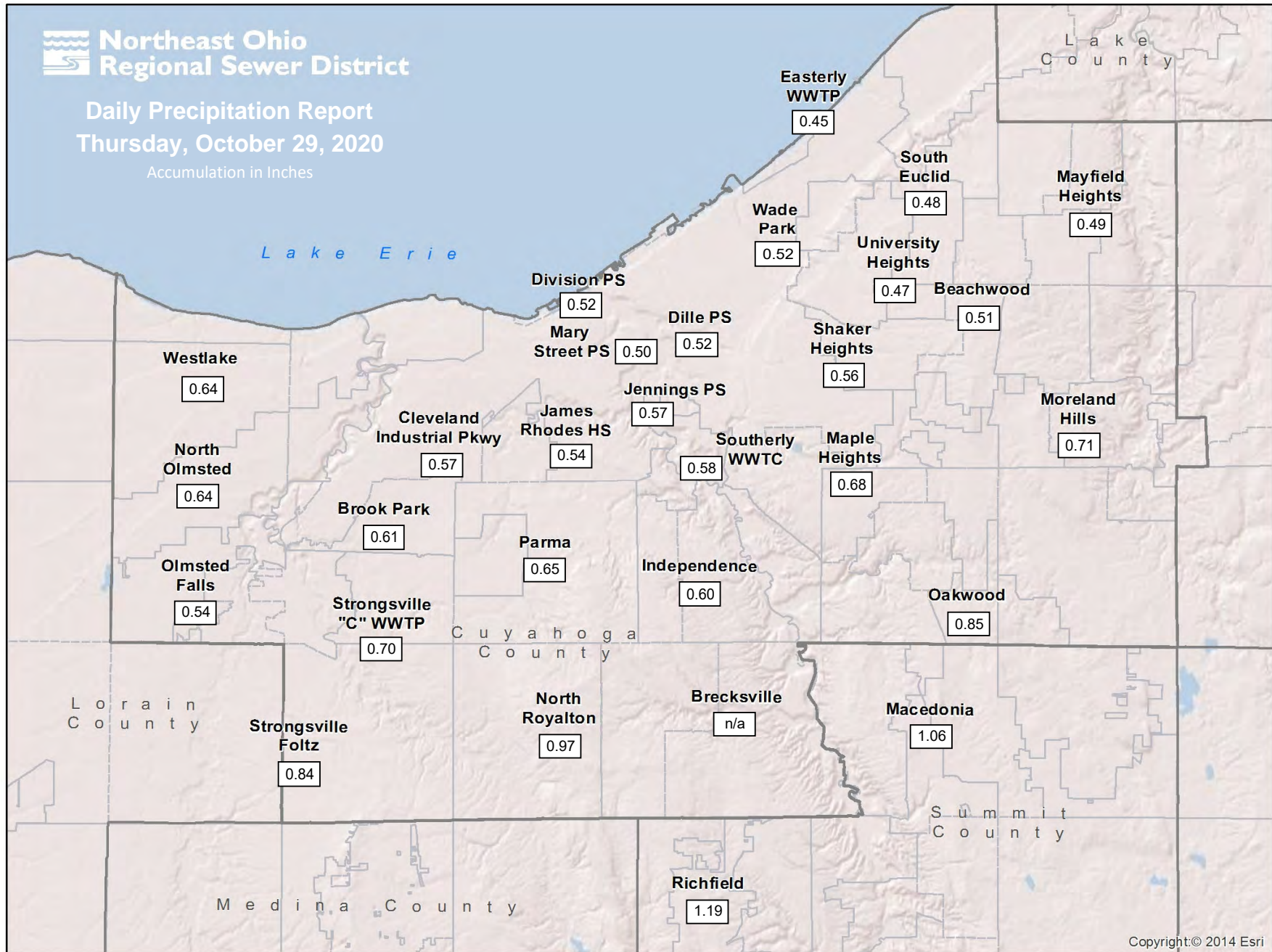
<u>Site Location</u>	Peak Accumulation (inches)					
	<u>24-Hour</u>	<u>6-Hour</u>	<u>3-Hour</u>	<u>1-Hour</u>	<u>15-Minute</u>	<u>5-Minute</u>
Beachwood	0.22	0.22	0.15	0.07	0.03	0.02
Brecksville	0.29	0.29	0.18	0.09	0.05	0.02
Brook Park	0.22	0.22	0.14	0.08	0.03	0.01
Cleveland Industrial Pkwy	0.18	0.18	0.13	0.07	0.03	0.01
Dille Ave PS	0.16	0.16	0.10	0.06	0.02	0.01
Division Ave PS	0.17	0.17	0.12	0.06	0.02	0.01
Easterly WWTP	0.14	0.14	0.10	0.06	0.02	0.01
Independence	0.16	0.16	0.10	0.05	0.02	0.01
James Rhodes HS	0.19	0.19	0.12	0.07	0.03	0.01
Jennings PS	0.20	0.20	0.12	0.06	0.03	0.01
Macedonia	0.11	0.10	0.07	0.03	0.02	0.01
Maple Heights	0.11	0.11	0.07	0.04	0.02	0.01
Mary Street PS	0.18	0.18	0.12	0.06	0.02	0.01
Mayfield Heights	0.24	0.24	0.15	0.09	0.03	0.02
Moreland Hills	0.20	0.20	0.14	0.08	0.04	0.02
North Olmsted	0.19	0.19	0.14	0.07	0.03	0.01
North Royalton	0.17	0.17	0.11	0.05	0.03	0.01
Oakwood	0.11	0.11	0.07	0.03	0.02	0.01
Olmsted Falls	0.16	0.16	0.12	0.07	0.03	0.01
Parma	0.18	0.18	0.12	0.07	0.03	0.01
Richfield	0.13	0.13	0.09	0.04	0.03	0.01
Shaker Heights	0.15	0.15	0.10	0.05	0.02	0.01
South Euclid	0.23	0.23	0.14	0.07	0.03	0.01
Southerly WWTC	0.17	0.17	0.11	0.06	0.02	0.01
Strongsville C WWTP	0.21	0.21	0.14	0.07	0.03	0.01
Strongsville Foltz	0.16	0.16	0.11	0.05	0.03	0.01
University Heights	0.20	0.20	0.13	0.06	0.02	0.01
Wade Park	0.18	0.18	0.12	0.07	0.03	0.01
Westlake	0.16	0.16	0.13	0.06	0.02	0.01



Northeast Ohio Regional Sewer District

Daily Precipitation Report Thursday, October 29, 2020

Accumulation in Inches



Northeast Ohio Regional Sewer District

Daily Precipitation Report

Thursday, October 29, 2020

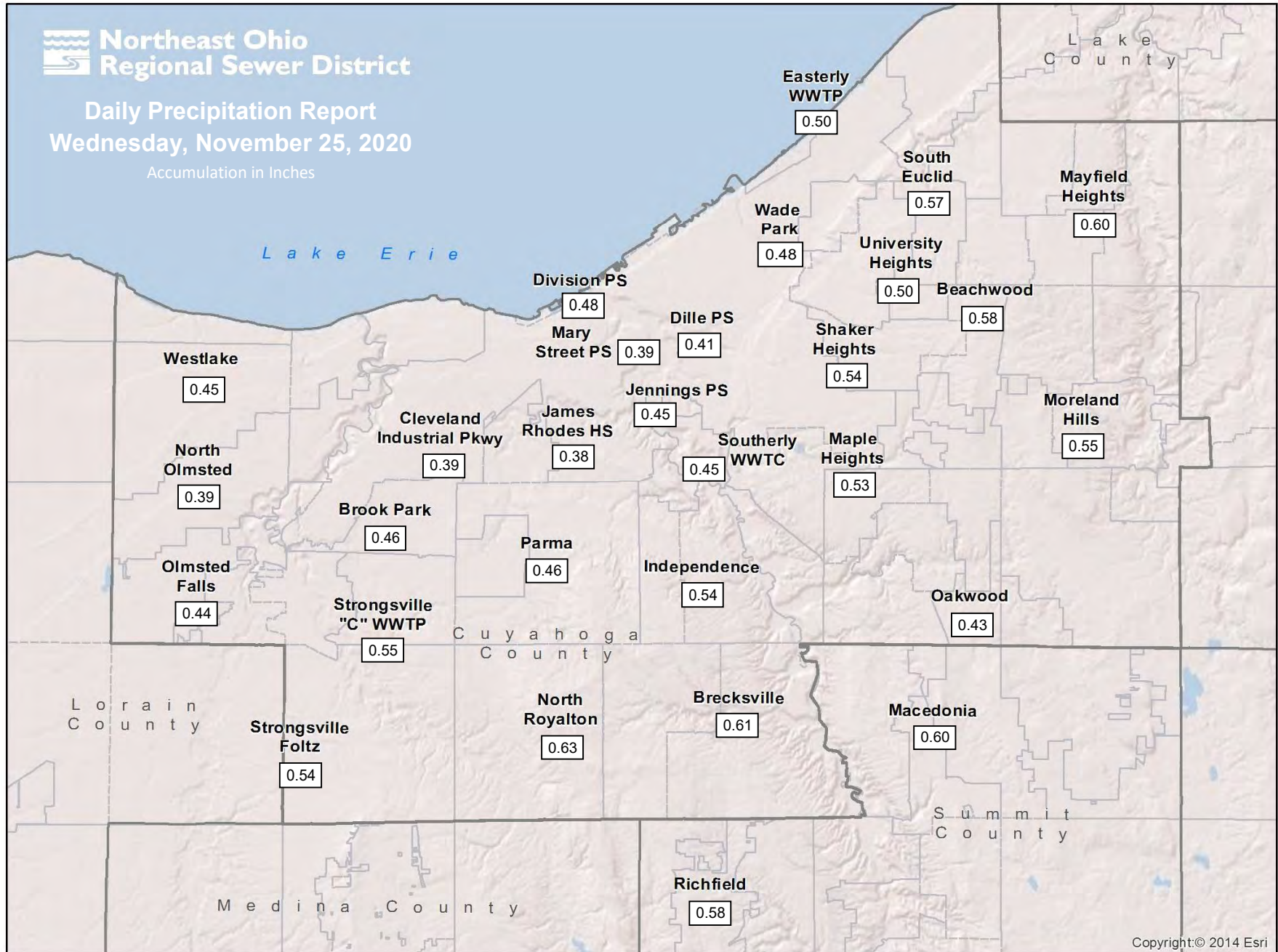
<u>Site Location</u>	Peak Accumulation (inches)					
	<u>24-Hour</u>	<u>6-Hour</u>	<u>3-Hour</u>	<u>1-Hour</u>	<u>15-Minute</u>	<u>5-Minute</u>
Beachwood	0.51	0.39	0.23	0.09	0.03	0.01
Brecksville	n/a	n/a	n/a	n/a	n/a	n/a
Brook Park	0.61	0.49	0.28	0.11	0.03	0.02
Cleveland Industrial Pkwy	0.57	0.46	0.26	0.10	0.04	0.02
Dille Ave PS	0.52	0.39	0.23	0.10	0.03	0.02
Division Ave PS	0.52	0.42	0.25	0.10	0.04	0.02
Easterly WWTP	0.45	0.36	0.23	0.09	0.03	0.02
Independence	0.60	0.46	0.29	0.13	0.04	0.02
James Rhodes HS	0.54	0.43	0.25	0.10	0.03	0.01
Jennings PS	0.57	0.43	0.26	0.10	0.03	0.01
Macedonia	1.06	0.76	0.48	0.18	0.05	0.02
Maple Heights	0.68	0.51	0.30	0.12	0.04	0.02
Mary Street PS	0.50	0.38	0.23	0.09	0.03	0.01
Mayfield Heights	0.49	0.36	0.21	0.09	0.03	0.01
Moreland Hills	0.71	0.49	0.31	0.13	0.04	0.02
North Olmsted	0.64	0.47	0.26	0.10	0.04	0.02
North Royalton	0.97	0.68	0.45	0.18	0.05	0.02
Oakwood	0.85	0.58	0.37	0.15	0.04	0.02
Olmsted Falls	0.54	0.43	0.26	0.11	0.04	0.02
Parma	0.65	0.51	0.29	0.12	0.04	0.02
Richfield	1.19	0.81	0.50	0.19	0.06	0.02
Shaker Heights	0.56	0.42	0.25	0.10	0.03	0.01
South Euclid	0.48	0.37	0.23	0.10	0.03	0.01
Southerly WWTC	0.58	0.44	0.25	0.10	0.03	0.01
Strongsville C WWTP	0.70	0.55	0.32	0.13	0.04	0.02
Strongsville Foltz	0.84	0.62	0.39	0.17	0.05	0.02
University Heights	0.47	0.37	0.22	0.09	0.03	0.01
Wade Park	0.52	0.36	0.22	0.09	0.05	0.03
Westlake	0.64	0.47	0.28	0.11	0.04	0.02



Northeast Ohio Regional Sewer District

Daily Precipitation Report Wednesday, November 25, 2020

Accumulation in Inches



Northeast Ohio Regional Sewer District

Daily Precipitation Report

Wednesday, November 25, 2020

<u>Site Location</u>	Peak Accumulation (inches)					
	<u>24-Hour</u>	<u>6-Hour</u>	<u>3-Hour</u>	<u>1-Hour</u>	<u>15-Minute</u>	<u>5-Minute</u>
Beachwood	0.58	0.40	0.25	0.15	0.09	0.05
Brecksville	0.61	0.39	0.24	0.18	0.08	0.05
Brook Park	0.46	0.27	0.18	0.17	0.11	0.06
Cleveland Industrial Pkwy	0.39	0.23	0.15	0.14	0.09	0.04
Dille Ave PS	0.41	0.29	0.17	0.11	0.05	0.03
Division Ave PS	0.48	0.26	0.20	0.20	0.13	0.08
Easterly WWTP	0.50	0.36	0.24	0.12	0.06	0.03
Independence	0.54	0.38	0.25	0.15	0.07	0.04
James Rhodes HS	0.38	0.26	0.16	0.11	0.06	0.04
Jennings PS	0.45	0.31	0.18	0.13	0.07	0.04
Macedonia	0.60	0.38	0.23	0.19	0.09	0.06
Maple Heights	0.53	0.33	0.20	0.17	0.10	0.06
Mary Street PS	0.39	0.27	0.15	0.11	0.06	0.03
Mayfield Heights	0.60	0.41	0.26	0.17	0.11	0.06
Moreland Hills	0.55	0.38	0.24	0.13	0.08	0.04
North Olmsted	0.39	0.24	0.15	0.14	0.09	0.05
North Royalton	0.63	0.39	0.25	0.19	0.10	0.06
Oakwood	0.43	0.28	0.18	0.14	0.06	0.03
Olmsted Falls	0.44	0.27	0.17	0.15	0.09	0.05
Parma	0.46	0.31	0.20	0.14	0.06	0.04
Richfield	0.58	0.36	0.20	0.17	0.07	0.03
Shaker Heights	0.54	0.42	0.28	0.19	0.09	0.04
South Euclid	0.57	0.42	0.26	0.14	0.08	0.04
Southerly WWTC	0.45	0.31	0.20	0.14	0.07	0.04
Strongsville C WWTP	0.55	0.32	0.21	0.18	0.09	0.04
Strongsville Foltz	0.54	0.34	0.20	0.15	0.06	0.03
University Heights	0.50	0.39	0.26	0.16	0.06	0.03
Wade Park	0.48	0.33	0.20	0.13	0.08	0.03
Westlake	0.45	0.28	0.17	0.15	0.11	0.07

APPENDIX D
Eurofins TestAmerica Laboratory Report

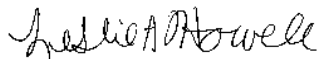
ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-141000-1
Client Project/Site: EnviroScience Project # 13815

For:
EnviroScience Inc
5070 Stow Rd.
Stow, Ohio 44224

Attn: Kyle Lawrence



Authorized for release by:
12/7/2020 5:18:04 PM

Leslie Howell, Project Manager I
(330)966-9266
Leslie.Howell@Eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Chain of Custody	20

Definitions/Glossary

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Job ID: 240-141000-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-141000-1**

Comments

No additional comments.

Receipt

The samples were received on 11/25/2020 3:20 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

General Chemistry

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to client request(190-24613-D-1) and (190-24613-D-1 DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Method Summary

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Method	Method Description	Protocol	Laboratory
2540 C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-141000-1	PIP11_112520	Water	11/25/20 12:25	11/25/20 15:20	
240-141000-2	PIP11DWS_112520	Water	11/25/20 12:30	11/25/20 15:20	
240-141000-3	PIP6_112520	Water	11/25/20 11:32	11/25/20 15:20	
240-141000-4	PIP6DWS_112520	Water	11/25/20 11:37	11/25/20 15:20	
240-141000-5	PIP26_112520	Water	11/25/20 12:46	11/25/20 15:20	
240-141000-6	PIP26DWS_112520	Water	11/25/20 12:50	11/25/20 15:20	
240-141000-7	PIP27_112520	Water	11/25/20 12:22	11/25/20 15:20	

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Detection Summary

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP11_112520

Lab Sample ID: 240-141000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	800		10	7.8	mg/L	1		2540 C-2011	Total/NA
Sulfate	270		5.0	1.7	mg/L	5		300.0	Total/NA

Client Sample ID: PIP11DWS_112520

Lab Sample ID: 240-141000-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100		20	16	mg/L	1		2540 C-2011	Total/NA
Sulfate	350		5.0	1.7	mg/L	5		300.0	Total/NA

Client Sample ID: PIP6_112520

Lab Sample ID: 240-141000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2800		40	31	mg/L	1		2540 C-2011	Total/NA
Sulfate	1400		20	7.0	mg/L	20		300.0	Total/NA

Client Sample ID: PIP6DWS_112520

Lab Sample ID: 240-141000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2900		40	31	mg/L	1		2540 C-2011	Total/NA
Sulfate	1300		20	7.0	mg/L	20		300.0	Total/NA

Client Sample ID: PIP26_112520

Lab Sample ID: 240-141000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	540		10	7.8	mg/L	1		2540 C-2011	Total/NA
Sulfate	88		5.0	1.7	mg/L	5		300.0	Total/NA

Client Sample ID: PIP26DWS_112520

Lab Sample ID: 240-141000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	770		10	7.8	mg/L	1		2540 C-2011	Total/NA
Sulfate	100		5.0	1.7	mg/L	5		300.0	Total/NA

Client Sample ID: PIP27_112520

Lab Sample ID: 240-141000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2600		50	39	mg/L	1		2540 C-2011	Total/NA
Sulfate	680		20	7.0	mg/L	20		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP11_112520

Lab Sample ID: 240-141000-1

Date Collected: 11/25/20 12:25

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10	7.8	mg/L			12/01/20 10:16	1
Sulfate	270		5.0	1.7	mg/L			11/25/20 23:40	5

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP11DWS_112520

Lab Sample ID: 240-141000-2

Date Collected: 11/25/20 12:30

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		20	16	mg/L			12/01/20 10:16	1
Sulfate	350		5.0	1.7	mg/L			11/26/20 00:02	5

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP6_112520

Lab Sample ID: 240-141000-3

Date Collected: 11/25/20 11:32

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2800		40	31	mg/L			12/01/20 10:16	1
Sulfate	1400		20	7.0	mg/L			11/26/20 00:24	20

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP6DWS_112520

Lab Sample ID: 240-141000-4

Date Collected: 11/25/20 11:37

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2900		40	31	mg/L			12/02/20 08:57	1
Sulfate	1300		20	7.0	mg/L			11/26/20 00:46	20

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP26_112520

Lab Sample ID: 240-141000-5

Date Collected: 11/25/20 12:46

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		10	7.8	mg/L			12/02/20 08:57	1
Sulfate	88		5.0	1.7	mg/L			11/26/20 01:07	5

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP26DWS_112520

Lab Sample ID: 240-141000-6

Date Collected: 11/25/20 12:50

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	770		10	7.8	mg/L			12/02/20 08:57	1
Sulfate	100		5.0	1.7	mg/L			11/26/20 01:29	5

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Client Sample Results

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP27_112520

Lab Sample ID: 240-141000-7

Date Collected: 11/25/20 12:22

Matrix: Water

Date Received: 11/25/20 15:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2600		50	39	mg/L			12/02/20 08:57	1
Sulfate	680		20	7.0	mg/L			11/26/20 01:51	20

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QC Sample Results

Client: EnviroScience Inc
 Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Method: 2540 C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 240-463473/1
Matrix: Water
Analysis Batch: 463473

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<7.8		10	7.8	mg/L			12/01/20 10:16	1

Lab Sample ID: LCS 240-463473/2
Matrix: Water
Analysis Batch: 463473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	624	610		mg/L		98	80 - 120

Lab Sample ID: 240-141000-3 DU
Matrix: Water
Analysis Batch: 463473

Client Sample ID: PIP6_112520
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2800		3240		mg/L		13	20

Lab Sample ID: MB 240-463627/1
Matrix: Water
Analysis Batch: 463627

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<7.8		10	7.8	mg/L			12/02/20 08:57	1

Lab Sample ID: LCS 240-463627/2
Matrix: Water
Analysis Batch: 463627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	624	540		mg/L		87	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-462899/3
Matrix: Water
Analysis Batch: 462899

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.35		1.0	0.35	mg/L			11/25/20 22:57	1

Lab Sample ID: LCS 240-462899/4
Matrix: Water
Analysis Batch: 462899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.5		mg/L		103	90 - 110

QC Association Summary

Client: EnviroScience Inc
 Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

General Chemistry

Analysis Batch: 462899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-141000-1	PIP11_112520	Total/NA	Water	300.0	
240-141000-2	PIP11DWS_112520	Total/NA	Water	300.0	
240-141000-3	PIP6_112520	Total/NA	Water	300.0	
240-141000-4	PIP6DWS_112520	Total/NA	Water	300.0	
240-141000-5	PIP26_112520	Total/NA	Water	300.0	
240-141000-6	PIP26DWS_112520	Total/NA	Water	300.0	
240-141000-7	PIP27_112520	Total/NA	Water	300.0	
MB 240-462899/3	Method Blank	Total/NA	Water	300.0	
LCS 240-462899/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 463473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-141000-1	PIP11_112520	Total/NA	Water	2540 C-2011	
240-141000-2	PIP11DWS_112520	Total/NA	Water	2540 C-2011	
240-141000-3	PIP6_112520	Total/NA	Water	2540 C-2011	
MB 240-463473/1	Method Blank	Total/NA	Water	2540 C-2011	
LCS 240-463473/2	Lab Control Sample	Total/NA	Water	2540 C-2011	
240-141000-3 DU	PIP6_112520	Total/NA	Water	2540 C-2011	

Analysis Batch: 463627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-141000-4	PIP6DWS_112520	Total/NA	Water	2540 C-2011	
240-141000-5	PIP26_112520	Total/NA	Water	2540 C-2011	
240-141000-6	PIP26DWS_112520	Total/NA	Water	2540 C-2011	
240-141000-7	PIP27_112520	Total/NA	Water	2540 C-2011	
MB 240-463627/1	Method Blank	Total/NA	Water	2540 C-2011	
LCS 240-463627/2	Lab Control Sample	Total/NA	Water	2540 C-2011	

Lab Chronicle

Client: EnviroScience Inc
 Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP11_112520

Lab Sample ID: 240-141000-1

Date Collected: 11/25/20 12:25

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463473	12/01/20 10:16	AJ	TAL CAN
Total/NA	Analysis	300.0		5	462899	11/25/20 23:40	JWW	TAL CAN

Client Sample ID: PIP11DWS_112520

Lab Sample ID: 240-141000-2

Date Collected: 11/25/20 12:30

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463473	12/01/20 10:16	AJ	TAL CAN
Total/NA	Analysis	300.0		5	462899	11/26/20 00:02	JWW	TAL CAN

Client Sample ID: PIP6_112520

Lab Sample ID: 240-141000-3

Date Collected: 11/25/20 11:32

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463473	12/01/20 10:16	AJ	TAL CAN
Total/NA	Analysis	300.0		20	462899	11/26/20 00:24	JWW	TAL CAN

Client Sample ID: PIP6DWS_112520

Lab Sample ID: 240-141000-4

Date Collected: 11/25/20 11:37

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463627	12/02/20 08:57	AJ	TAL CAN
Total/NA	Analysis	300.0		20	462899	11/26/20 00:46	JWW	TAL CAN

Client Sample ID: PIP26_112520

Lab Sample ID: 240-141000-5

Date Collected: 11/25/20 12:46

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463627	12/02/20 08:57	AJ	TAL CAN
Total/NA	Analysis	300.0		5	462899	11/26/20 01:07	JWW	TAL CAN

Client Sample ID: PIP26DWS_112520

Lab Sample ID: 240-141000-6

Date Collected: 11/25/20 12:50

Matrix: Water

Date Received: 11/25/20 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 C-2011		1	463627	12/02/20 08:57	AJ	TAL CAN
Total/NA	Analysis	300.0		5	462899	11/26/20 01:29	JWW	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Client Sample ID: PIP27_112520

Lab Sample ID: 240-141000-7

Date Collected: 11/25/20 12:22

Matrix: Water

Date Received: 11/25/20 15:20

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	2540 C-2011		1	463627	12/02/20 08:57	AJ	TAL CAN
Total/NA	Analysis	300.0		20	462899	11/26/20 01:51	JWW	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: EnviroScience Inc
Project/Site: EnviroScience Project # 13815

Job ID: 240-141000-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Client Information
 Client Contact: **Kyle Lawrence**
 Company: **EnviroScience Inc**
 Address: **5070 Slow Rd.**
 City: **Stow**
 State, Zip: **OH, 44224**
 Phone: **330-808-2386(Tel)**
 Email: **klawrence@enviroscienceinc.com**
 Project Name: **EnviroScience Project # 13815**
 Site:

Sampler: **KL3 BW**
 Lab PM: **Howell, Leslie**
 E-Mail: **Leslie.Howell@Eurofinset.com**

COC No: **240-76190-30523.1**
 Page: **Page 1 of 1**
 Job #:

Analysis Requested

Due Date Requested:
 TAT Requested (days): **Standard**
 PO #: **Purchase Order Requested 13815**
 WO #:
 Project #:
 SSOW#:

Perform MS/MSD (Yes or No) N
 Field Filtered Sample (Yes or No) N
 2540C_Calcd, 300.0_28D

Carrier Tracking No(s):
 Total Number of containers:

Preservation Codes:
 A - HCl
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NH4SO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil)	Preservation Code: (SI-Tissue, A-Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
PIP11-112520	11/25/20	1235	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
PIP11 DWS-112520		1230		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
PIP6-112520		1132		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
PIPG DWS-112520		1137		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
PIP26-112520		1246		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
PIP26 DWS-112520		1250		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	
AP27-112520		1222		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N	



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:

Relinquished by: **Ben White** Date: **11/25/20 3:20** Company: **ES**

Relinquished by: **Young Berg** Date/Time: **11/25/20 3:20** Company: **ETA**

Relinquished by: Date/Time: Company:

Custody Seals Intact: Yes No Custody Seal No.:

Method of Shipment: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login #: 141 060

Canton Facility

Client ENVIROscience

Site Name

Cooler unpacked by:

Cooler Received on 11-25-20

Opened on 11-25-20

Jamy Page

FedEx: 1st Grd Exp UPS FAS Clipper

Client Drop Off

TestAmerica Courier

Other

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # TA

Foam Box

Client Cooler

Box

Other

Packing material used: Bubble Wrap

Foam

Plastic Bag

None

Other

COOLANT: Wet Ice

Blue Ice

Dry Ice

Water

None

1. Cooler temperature upon receipt

See Multiple Cooler Form

IR GUN# IR-11 (CF +0.9 °C)

Observed Cooler Temp. 05 °C

Corrected Cooler Temp. 14 °C

IR GUN #IR-12 (CF +0.5 °C)

Observed Cooler Temp. °C

Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1

Yes No

-Were the seals on the outside of the cooler(s) signed & dated?

Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

Yes No

-Were tamper/custody seals intact and uncompromised?

Yes No NA

3. Shippers' packing slip attached to the cooler(s)?

Yes No

4. Did custody papers accompany the sample(s)?

Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC?

Yes No

7. Did all bottles arrive in good condition (Unbroken)?

Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?

Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N) and sample type of grab/comp (Y/N)?

Yes No

10. Were correct bottle(s) used for the test(s) indicated?

Yes No

11. Sufficient quantity received to perform indicated analyses?

Yes No

12. Are these work share samples and all listed on the COC?

Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt?

Yes No NA

pH Strip Lot# HC907861

14. Were VOAs on the COC?

Yes No

15. Were air bubbles >6 mm in any VOA vials? Larger than this.

Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #

Yes No

17. Was a LL Hg or Me Hg trip blank present?

Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____