
DESIGN MEMORANDUM

Date: May 22, 2023
To: Mr. Derek Johnson, Michael Baker International, Inc.
From: Brendan P. Andrews P.E., NEAS Inc.
RE: Subgrade - Geotechnical Design Memorandum
Project: CUY-90-16.28 (CCG3A)
PID: 82382
Cuyahoga County, Ohio

INTRODUCTION

Per your request, this memorandum presents our subgrade analysis and recommendations for CCG3A (CUY-90-16.28), part of the Cleveland Innerbelt Modernization Plan, for the improvement of the IR-77 / IR-90 interchange located approximately one mile south of the Cleveland, Ohio.

NEAS understands that Michael Baker International (MBI) is working with the Ohio Department of Transportation (ODOT) as a part of Construction Contract Group 3 (CCG3), a division of ODOT's comprehensive strategy for rebuilding and modernizing the Cleveland Innerbelt corridor into downtown, to develop construction plans for the proposed CUY-77/90-14.96/16.33 (PID 82380) project along portions of Interstate Route (IR) 90 and IR-77 located in the greater Cleveland, Ohio area. The overall project, designated as CCG3, extends west to east along IR-90 from approximately East 9th St (St) to Prospect Avenue (Ave) East, and south to north along IR-77 from approximately Croton Ave to the IR-77 / IR-90 interchange. Due to the size and scope of the overall CCG3 project, it is our understanding that the overall project has been divided into different projects and MBI is requesting a subgrade analysis and recommendations for the project designated as CCG3A.

Between October 2014 and July 2015, NEAS performed an initial subsurface exploration program for the overall CCG3 project which was developed based on the preliminary plan set at that time. As part of the newly developed CCG3A and based on the most recent plan set, NEAS reviewed the data from the previously performed boring and laboratory testing programs associated with the CCG3 project including the Subgrade Exploration Report developed by NEAS for the overall CCG3 project to determine if additional information is needed to satisfy ODOT SGE requirements for geotechnical design of the proposed CCG3A project. Between March 3, 2021 and July 2, 2021 an additional subsurface exploration was performed to supplement the previously performed 2014/2015 CCG3 investigation for use in the CCG3A project.

This memo presents a summary of the CCG3A project encountered surficial and subsurface conditions and our recommendations for subgrade stabilization and pavement design parameters. Please reference the Subgrade Exploration Report developed by NEAS for the overall CCG3 project for ODOT project report requirements as well as additional project information and data. The roadway analysis performed as part of this memo has been performed in accordance with ODOT's July 2023 revision of *ODOT Geotechnical Design Manual* (GB1) (ODOT [1], 2023) and *Pavement Design Manual* (PDM) (ODOT, 2022). Boring logs for the project are attached.

Proposed Construction

NEAS understands that the CCG3A project is to include roadway improvements and/or reconstruction of portions mainline IR-90 (Eastbound and Westbound), six connecting ramps (A1, A2, A3, B6, H5, H5 Interim, and H6) and three surface streets (E. 14th St., E. 18th St., and Carnegie Ave). It is also our understanding that the CCG3A project will include the construction/reconstruction of 6 bridge structures as well as multiple retaining walls. During the design phase of Bridge CUY-77-1587 (Bridge 9), it was determined that settlement magnitudes associated with the project proposed embankment fill near the referenced structure were too great. Therefore, based on our discussions with ODOT and the design team, it was recommended that lightweight fill (LWF) be utilized as embankment fill to support the proposed Ramp A1 and A2 alignment adjacent to the proposed Bridge CUY-77-1587 (Bridge 9) forward abutment as well as the realigned and widened IR-90 alignment adjacent to the proposed Bridge CUY-90-1653L&R (Bridge 10 and 11) forward abutments. Analysis data and recommendation associated with the use of LWF can be found in the Bridge CUY-77-1587 Structure Foundation Exploration Report.

ANALYSES AND RECOMMENDATIONS

We understand that reconstruction and reconfiguration of portions of IR-90 mainline freeway segments including connecting ramps and 3 different sections of adjacent surface streets is planned as part of the CCG3A project in Cuyahoga County, Ohio. For this purpose, a subgrade exploration and subsequent analysis was completed for the referenced project. The analysis completed for the proposed reconstruction and reconfiguration included a subgrade (GB1) analysis and embankment stability analyses (i.e., global stability and settlement). The subgrade (GB1) analysis performed in accordance with ODOT's GB1 criteria utilizing the ODOT provided *GB1: Subgrade Analysis Spreadsheet* (GB1_SubgradeAnalysis.xls, Version 14.6 dated February 11, 2022). Input information for the spreadsheet was based on the soil characteristics gathered during NEAS's subgrade explorations (i.e., SPT results, laboratory test results, etc.). A GB1 analysis was performed for each of the referenced mainline and ramp segments individually.

Per conversations with the design team, the recommendations included herein are to be limited to project interstates, ramps, and roadways where the subgrade material is planned to receive less than 3 ft of new Item 203 embankment fill. Additionally, embankment stability analyses and recommendations for project embankment sections proposed as part of the project are provided. Based on our evaluation of the subsurface conditions and our geotechnical engineering analyses of the proposed reconstruction/rehabilitation, it is our opinion that subgrade conditions are generally satisfactory, and pavement can be designed without the need for extreme levels of remediation. In general, the subgrade soils throughout the project can be stabilized by standard compaction (subgrade preparation) practices; however, isolated locations noted in the sections below will require further remediation consisting of 36 inches of excavate and replace with geotextile or 14 inches of chemical stabilization. The following sections provide further details about the analysis performed and the recommended remediation.

Subgrade Analysis

A GB1 analysis was performed to identify the method, location, and dimensions (including depth) of required subgrade stabilization for the project. In addition to identifying stabilization recommendations, pavement design parameters are also determined to aid in pavement section design. The subsections below present the results of our GB1 analysis including pavement design parameters and unsuitable subgrade conditions identified within the project limits. GB1 analysis spreadsheets are attached.

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Again, it should be noted that for the purposes of this report and our analysis, the term 'proposed subgrade' has been assumed to represent soils and/or soil conditions from 1.5 ft below proposed final pavement grades to a depth of 7.5 ft below the proposed pavement grades.

Pavement Design Recommendations

It is our understanding that pavement analysis and design is to be performed to determine the proposed pavement sections for the new alignments as well as roadway segments within the project limits to undergo full depth replacement. A GB1 analysis was performed using the subgrade soil data obtained during our field exploration programs to evaluate the soil characteristics and develop pavement parameters for use in pavement design. The subgrade parameters recommended for use in pavement design are presented in Table 1 below. Provided in the table are ranges of maximum, minimum and average N60L values for the indicated segments as well as the design CBR value recommended for use in pavement design.

Table 1: Pavement Design Values

Segment	Maximum N _{60L}	Minimum N _{60L}	Average N _{60L}	Average PI Values	Design CBR
IR-90 (EB)	30	3	21	-	13
IR-90 (WB)	26	3	14	10	10
Ramp A1	12	3	8	-	13
Ramp A2	30	13	21	-	10
Ramp A3	22	4	12	-	12
Ramp B6	16	16	16	-	13
Ramp H5	30	7	22	-	11
Ramp H5 Interim	30	29	30	14	12
Ramp H6	10	0	5	-	13
Carnegie Ave	14	3	8	-	13
East 14th St (NB)	22	6	11	-	13
East 14th St (SB)	8	6	7	-	13
East 18th St	30	8	15	-	13

Unsuitable Subgrade

Per ODOT's GB1, the presence of select subgrade conditions (i.e., unsuitable) are prohibited within the subgrade zone for new pavement construction. These unsuitable subgrade conditions generally include the presence of rock and specific soil types. With respect to the proposed reconstruction/rehabilitation project these subgrade conditions are further discussed in the following subsections.

Rock

Rock was not encountered at or close to subgrade elevation at the boring locations performed within the project limits.

Prohibited Soils

Prohibited soil types per the GB1 which include A-4b, A-2-5, A-5, A-7-5, A-8a, A-8b and soils with liquid limits greater than 65, were encountered within the subgrade of the referenced project roadway segments. Soil Type A-4b (Silt) was encountered within two (2) boring performed along the proposed IR-90 Eastbound and Westbound alignments. A summary of the prohibited soils encountered and the associated GB1 recommended remediation depths are shown in Table 2 below.

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Table 2: Prohibited Soils Location Summary

Boring ID	Prohibited Soil Type	Depth Below Subgrade (ft)	Remediation Depth (inches)	
			Excavate and Replace (Item 204 w/ Geotextile)	Chemical Stabilization (Item 206)
IR-90 (EB)				
B-169-7-20	A-4b	0.0 - 1.4	36	14
IR-90 (WB)				
B-087-2-20	A-4b	0.0 - 3.5	36	14

Unstable Soils

The GB1 recommends subgrade stabilization for soils considered unstable in which the N_{60} value of a particular soil sample (SS) at a referenced boring location is less than 12 bpf and in some cases less than 15 bpf (i.e., where moisture content is greater than optimum plus 3 percent). Based on the specific N_{60} value at the subject boring, *Figure B - Subgrade Stabilization* within the GB1 recommends a depth of subgrade stabilization for ODOT standard stabilization methods. Additionally, although a soil sample's N_{60} value may meet the criteria to be considered an unstable soil, the depth in which the unstable soil is encountered in relation to the proposed subgrade is considered when each individual subgrade boring is analyzed. For example, if the GB1 recommends an excavate and replace of 12 inches within a weak soil underlying 18 inches of stable material, it would be unreasonable to recommend the removal of both the stable and unstable material for a total of 30 inches of excavate and replace.

Based on N_{60} values encountered within the project borings, our GB1 analysis suggests the need for 12 to 33 inches of excavate and replace at select locations. A summary of the boring locations where unstable soils were encountered and determined to have a potential impact on subgrade performance are shown in Table 3 below. Also included is the associated GB1 recommended remediation depth at that location.

Table 3: Unstable Soil Locations Summary

Boring ID	Average HP (tsf)	N_{60L} (bpf)	Moisture Above Optimum (%)	Depth Below Subgrade (ft)	Remediation Depth (inches)
					Excavate and Replace (Item 204 w/ Geotextile)
IR-90 (EB)					
B-169-7-20	-	14	15	0.0 - 1.4	12
B-169-8-20	-	3	12	0.0 - 0.5	33
IR-90 (WB)					
B-087-2-20	-	8/9	3	0.0 - 2.4	12
East 14th St (NB)					
B-158-0-14	-	8	6	0.0 - 1.1	12

It should be noted that *Figure B - Subgrade Stabilization* does not apply to soil types A-1-a, A-1-b, A-3, or A-3a, nor to soils with N_{60L} values of 15 or more. Per GB1 guidance, *these soils should be reworked to stabilize the subgrade.*

High Moisture Content Soils

High moisture content soils are defined by the GB1 as soils that exceed the estimated optimum moisture content (per Figure A - Optimum Moisture Content within the GB1) for a given classification by 3 percent or more. Per the GB1, soils determined to be above the identified moisture content levels are a likely indication of the presence of an unstable subgrade and may require some form of subgrade stabilization.

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Similar to our analysis of unstable soils, although a soil sample’s moisture content may meet the criteria to be considered high, the depth in which the high moisture soil is encountered in relation to the proposed subgrade is considered when each individual subgrade boring is analyzed for stabilization recommendations. Summaries of the boring locations where high moisture content conditions were encountered in the top 3 ft of subgrade within the limits of each proposed roadway segment are shown in Table 4 below.

Table 4: High Moisture Content Soils Location Summary

Boring ID	Moisture Content (%)	Optimum Moisture Content (%)	Depth Below Subgrade (ft)
IR-90 (EB)			
B-169-7-20	26	11	0.0 - 1.4
B-169-8-20	22	10	0.0 - 0.5
IR-90 (WB)			
B-087-2-20	24	10	0.0 - 1.0
B-087-2-20	29	11	2.0 - 3.5
B-169-2-20	21	10	0.0 - 3.4
East 14th St (NB)			
B-158-0-14	17	11	0.0 - 1.1

The above noted high moisture content soil per the GB1 spreadsheet and others (i.e., granular soils with moisture contents greater than optimum plus 3 percent) are considered in the development of the recommendations provided below.

Stabilization Recommendations

Based on the results of our analysis, subgrade soils designated by ODOT’s GB1 as both “unstable” and “unsuitable” were present at minimal locations throughout the project. Subgrade soils designated as “unsuitable” consisted of soils classifying as A-4b (Silt) and were encountered within subgrade depths that require remediation in two borings (B-087-2-20 and B-169-7-20) performed along IR-90. Subgrade soils designated as “unstable” by ODOT’s GB1 were encountered within subgrade depths at two borings (B-169-2-20 and B-169-8-20) performed along IR-90 and one boring (B-158-0-14) performed along East 14th St NB. With the exception of the previously referenced boring locations the majority of the subgrade soils analyzed consists of suitable coarse-grained material (A-1-a, A-1-b, A-3, or A-3a) or exhibits favorable strength properties, it is recommended that the subgrade of the other project roadways be "reworked" and prepared in accordance with typical Subgrade Compaction and Proof Rolling (Item 204) procedures and specifications. For areas where “unsuitable” A-4b (Silt) soils or “unstable” soils were encountered, it is recommended that either Excavate and Replace with geotextile (Item 204) be performed to a depth of 36 inches below the proposed top of subgrade, or chemical stabilization be performed to a depth of 14 inches. Our recommended limits for the indicated project subgrade stabilization are provided in the second table below.

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Table 5: Summary of Stabilization

Start Station	End Station	Excavate and Replace w/ Item 204 ⁽¹⁾ (inches)	Chemical Stabilization (inches)	Unsuitable Subgrade Conditions	Borings Considered
IR-90 (EB)					
206+75	210+75	36	14	A-4b (Silt)	B-169-7-20, B-169-8-20
IR-90 (WB)					
203+50	208+25	36	14	A-4b (Silt)	B-087-2-20, B-169-2-20
Remainder of Project					
Begin Work	End Work	-	-	-	Subgrade Compaction and Proof Rolling (Item 204)

Embankment Stability Analysis

For purposes of evaluating stability of the planned roadway embankment cuts and/or fills proposed as part of the project, NEAS reviewed cross-sections along the length of the project roadway segments to identify sections that were interpreted to represent conditions that posed the greatest potential for slope instability as a result of the planned construction. In general, cross-sections along each of the proposed roadway and ramp alignments were reviewed to identify planned alterations that may present a combination of existing subsurface conditions and planned site grading (i.e., cutting and/or filling) that would potentially be critical to the stability of the existing and/or proposed slopes at the site. Based on our review of the available information along the referenced alignments and the associated soil properties, two cross-sections estimated to be most "critical" along the proposed roadways were selected and analyzed for global stability. The two cross-sections selected to be evaluated include: 1) one cross-section along Ramp A2 at approximate STA. 409+00; and, 2) one cross-section along Ramp IJ3 at approximate STA. 108+50.

For these cross-sections, NEAS developed a representative cross-sectional model to use as the basis for global stability analyses. The model was developed from NEAS's interpretation of the available information which included: 1) the proposed roadway plans provided by GPD via ProjectWise on May 21, 2024; 2) a live load surcharge of 250 pounds per square foot (psf), accounting for traffic induced loads; and, 3) test borings and laboratory data developed as part of this report.

For analysis purposes, borings performed along or adjacent to the indicated proposed embankment sections were reviewed and a generalized material profile was developed for analysis to represent worst case conditions at each cross-section location. Utilizing the generalized soil profile, engineering properties for each soil strata were estimated based on the field (i.e., SPT N₆₀ Values, hand penetrometer values, etc.) and laboratory (i.e., Atterberg Limits, grain size, etc.) test results using correlations provided in published engineering manuals, research reports and guidance documents. The developed soil profile and estimated engineering soil properties for use in analysis (with cited correlation/reference material) is summarized within Tables 6 and 7 below.

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Table 6: Soil Profile and Estimated Engineering Properties – Ramp A2 – STA. 409+00

STA. 409+00 (Ramp A2): Embankment Stability Analysis, B-134-0-14 & B-134-1-20				
Soil Description	Unit Weight⁽¹⁾ (pcf)	Undrained Shear Strength⁽²⁾ (psf)	Effective Cohesion⁽³⁾ (psf)	Effective Friction Angle⁽³⁾ (degrees)
Soil Type 1 Depth (697.9 ft - 681.4 ft)	130	-	-	40
Soil Type 2 Depth (681.4 ft - 676.4 ft)	122	-	-	30
Soil Type 3 Depth (676.4 ft - 670.3 ft)	108	-	-	27
Soil Type 4 Depth (670.3 ft - 660.3 ft)	122	-	-	29
Soil Type 5 Depth (660.3 ft - 645 ft)	125	-	-	31
<i>Notes:</i>				
1. Values interpreted from Geotechnical Bulletin 7 Table 1.				
2. Values calculated from Terzaghi and Peck (1967) if $N_{60} < 52$, else Stroud and Butler (1975) was used.				
3. Values interpreted from Geotechnical Bulletin 7 Table 2 for cohesive soils and Kulhawy & Mayne (1990) for granular soils.				

Table 7: Soil Profile and Estimated Engineering Properties – Ramp IJ3 – STA. 108+50

STA. 108+50 (Ramp IJ3): Embankment Stability Analysis, B-102-0-14				
Soil Description	Unit Weight⁽¹⁾ (pcf)	Undrained Shear Strength⁽²⁾ (psf)	Effective Cohesion⁽³⁾ (psf)	Effective Friction Angle⁽³⁾ (degrees)
Soil Type 1 Depth (679 ft - 674.5 ft)	120	-	-	31
Soil Type 2 Depth (674.5 ft - 672 ft)	132	-	-	40
Soil Type 3 Depth (672 ft - 667 ft)	128	-	-	36
Soil Type 4 Depth (667 ft - 662 ft)	110	-	-	29
Soil Type 5 Depth (662 ft - 630.7 ft)	128	-	-	33
<i>Notes:</i>				
1. Values interpreted from Geotechnical Bulletin 7 Table 1.				
2. Values calculated from Terzaghi and Peck (1967) if $N_{60} < 52$, else Stroud and Butler (1975) was used.				
3. Values interpreted from Geotechnical Bulletin 7 Table 2 for cohesive soils and Kulhawy & Mayne (1990) for granular soils.				

The above referenced slope stability models were analyzed for long-term (Effective Stress) and short-term (Total Stress) slope stability utilizing the software entitled *Slide2* by Rocscience, Inc. Specifically, the Modified Bishop and Spencer analysis methods were used to calculate a factor of safety (FOS) for circular and block type slope failures, respectively. The FOS is the ratio of the resisting forces and the driving forces, with the desired safety factor being more than about 1.33 which equates to an AASHTO resistance factor less than 0.75 (per AASHTO's LRFD BDS the specified resistance factors are essentially the inverse of the FOS that should be targeted in slope stability programs). For this analysis, a resistance factor of 0.75 or lower is targeted as the slopes analyzed do not contain or support a structural element.

Based on our slope stability analyses for the above referenced roadway embankment sections, the minimum slope stability safety factor is about 1.55 (0.65 resistance factor) for the section analyzed along Ramp IJ3 at STA. 108+50. The graphical output of the slope stability program (cross-sectional model, calculated safety factor, and critical failure plane) for each analyzed section is attached.

Embankment Construction Recommendations

As indicated above, each of the embankment cross-sections analyzed for slope stability were determined to be stable (i.e., FOS greater than about 1.33) as proposed. Therefore, the proposed embankment slopes can be constructed in accordance with Item 203 “Roadway Excavation and Embankment” of the ODOT CMS.

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In areas where additional embankment material is proposed along existing slopes (i.e., side-hill sliver fills) that are steeper than 8 Horizontal to 1 Vertical (8H:1V) but flatter than 4H:1V, it is recommended that the proposed embankment be benched into the existing slopes in accordance with Item 203.05 “Embankment Construction Methods” of the ODOT CMS. For areas where additional embankment material is proposed along existing slopes that are steeper than 4H:1V, it is recommended that the proposed embankment be designed and constructed in accordance with Section 800 “SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS” of the ODOT GDM. For sidehill fills planned on existing slopes steeper than 4H:1V, ODOT’s GDM recommends that the embankment slopes be constructed utilizing special benching in order to blend the new embankment with the existing slope to prevent the development of a weak shear plane at the interface between the proposed fill and existing slope material (ODOT [1], 2023). As the project embankment fill slopes were determined to be stable as proposed based on our embankment stability analysis, a special benching scheme similar to that shown in Figures 800-1, 800-3 or 800-4, as appropriate, of the ODOT GDM can be used in areas where special benching is recommended. The height and width dimensions of the special benching scheme shown in these figures should be arranged to minimize the required cut and fill quantities, though the height of a single bench shall not exceed 20 ft without a stability analysis and design per OSHA requirements. Additionally, it may be appropriate to adjust the bench slope shown from a 1H:1V to a 1.75H:1V slope if the existing slope is made up of primarily granular materials. The benched material should be replaced with compacted engineered fill per Item 203 of the ODOT CMS, while proper lift thicknesses and material density should be maintained in the proposed fill per Item 203.06 of the ODOT CMS. In situations where it is not practical to extend the final bench through the existing roadway due to maintenance of traffic concerns, a benching scheme similar to that shown in Figure 800-2 of the ODOT GDM can be used in order to avoid impacting the existing roadway, guardrail or shoulder. This scheme results in the placement of a temporary over-steepened fill that can later be “shaved-off” to bring the slope to the final proposed grade.

REFERENCES

- AASHTO. (2017). *LRFD Bridge Design Specifications*. Washington, D.C.: American Association of State Highway and Transportation Officials.
- ODOT [1]. (2023). *Geotechnical Design Manual*. Columbus, Ohio: Ohio Department of Transportation: Office of Geotechnical Engineering. Retrieved from https://www.dot.state.oh.us/Divisions/Engineering/Geotechnical/Geotechnical_Documents/GB1_Plan_Subgrades.pdf
- ODOT. (2022). *Pavement Design Manual*. Columbus, Ohio: Ohio Department of Transportation: Office of Pavement Engineering. Retrieved from http://www.dot.state.oh.us/Divisions/Engineering/Pavement/Pavement%20Design%20%20Rehabilitation%20Manual/Complete_PDM_2015-07-17_version.pdf
- ODOT BDM. (2020). *2020 Bridge Design Manual*. Columbus, OH: Ohio Department of Transportation: Office of Structural Engineering.

BORING LOGS AND LABORATORY TESTING RESULTS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>39+87, 60' RT.</u>	EXPLORATION ID <u>B-002-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>697.3 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>11/3/14</u> END: <u>11/3/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.488225, -81.664499</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
12.0", ASPHALT	697.3																		
6.0", GRANULAR BASE	696.3	1																	
DENSE, BROWN AND GRAY, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE TO LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	695.8	2	7	13	32	100	SS-1	-	2	6	68	18	6	NP	NP	NP	10	A-3a (0)	
		3	11	12	34	67	SS-2	-	-	-	-	-	-	-	-	-	11	A-3a (V)	
		4	8	11	17	36	100	SS-3	-	6	18	43	21	12	NP	NP	NP	9	A-3a (0)
		5	12	17	45	100	SS-4	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		6	22	16	40	100	SS-5	-	-	-	-	-	-	-	-	-	-	13	A-3a (V)
	688.3	9	15																
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 6.1'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 42+93, 97' RT.		START: 12/1/14		END: 12/1/14		PG 2 OF 2		B-004-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 661.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, DAMP TO WET (continued)			661.5	31	5	17	89	SS-13	-	-	-	-	-	-	-	-	-	5	A-3a (V)	▽▽▽▽	
					6																7
					32																
					33																
					34																
					35																
					36																
					37																
					38																
					39																
@40.0'; SS-15 BECOMES DENSE			648.2	40	5	32	100	SS-15	-	0	0	81	15	4	NP	NP	NP	23	A-3a (0)	▽▽▽▽	
					11																14
					41																
					42																
					43																
					44																
					45																
					46																
					47																
					48																
MEDIUM DENSE, GRAYISH BROWN, SILT , LITTLE SAND, TRACE CLAY, TRACE GRAVEL, CONTAINS FEW DECAYED ROOTS, WET			644.2	45	7	21	100	SS-16	-	-	-	-	-	-	-	-	-	27	A-4b (V)	▽▽▽▽	
					7																9
					46																
					47																
					48																
					49																
					50																
					51																
					52																
					53																
SOFT, GRAY, SILT AND CLAY , LITTLE SAND, TRACE GRAVEL, MOIST @48.5'; UNIT WEIGHT: 134.0 PCF @ 19.0% MC			641.5	49		100	ST-17	0.25	0	1	13	52	34	29	17	12	19	A-6a (9)	▽▽▽▽		
					2															3	
					50																
					51																
					52																
					53																
					54																
					55																
					56																
					57																
LOOSE, GRAYISH BROWN, SILT , SOME SAND, TRACE CLAY, TRACE GRAVEL, WET			638.2	55	12	70	100	SS-19	-	0	0	52	43	5	NP	NP	NP	21	A-4a (3)	▽▽▽▽	
					22																32
					56																
					57																
					58																
					59																
					60																
					61																
					62																
					VERY DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET TO MOIST																630.0
37	50/5"																				
61																					
62																					
63																					
64																					
65																					
66																					
67																					
68																					

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 34.2' DURING DRILLING. CAVE DEPTH 20.8'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 44+87, 114' RT.		START: 12/1/14		END: 12/1/14		PG 2 OF 2		B-006-0-14												
MATERIAL DESCRIPTION AND NOTES			ELEV. 653.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL						
										GR	CS	FS	SI	CL	LL	PL	PI									
MEDIUM DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE TO LITTLE SILT, TRACE CLAY, MOIST (continued)			645.4	31	23 28 24	78	100	SS-12	-	-	-	-	-	-	-	-	-	14	A-3a (V)							
				32																						
				33																						
				34																						
				35	5																					
DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.4	36	10 20	45	100	SS-13	-	-	-	-	-	-	-	-	-	20	A-3a (V)							
				37																						
				38																						
				39																						
				40	6																					
MEDIUM STIFF TO STIFF, GRAYISH BROWN, SANDY SILT , SOME CLAY, TRACE GRAVEL, MOIST			640.4	41	10 14	36	100	SS-14	-	0	0	46	49	5	NP	NP	NP	26	A-4a (4)							
				42																						
				43																						
				44																						
				45	5																					
VERY STIFF, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST			630.4	46	8 9	26	100	SS-15	1.25	1	0	26	48	25	22	15	7	18	A-4a (8)							
				47																						
				48																						
				49																						
				50	5																					
VERY DENSE, GRAY, SILT , "AND" FINE SAND, TRACE CLAY, TRACE GRAVEL, WET			625.4	51	20 28	72	100	SS-16	1.00	-	-	-	-	-	-	-	-	20	A-4a (V)							
				52																						
				53																						
				54																						
				55	7																					
VERY DENSE, GRAY, SILT , "AND" FINE SAND, TRACE CLAY, TRACE GRAVEL, WET			622.2	56	12 14	39	100	SS-17	3.75	0	0	3	45	52	35	19	16	20	A-6b (10)							
				57																						
				58																						
				59																						
				60	11																					
				61	15 18	50	100	SS-18	-	0	0	36	55	9	NP	NP	NP	20	A-4b (6)							

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 26.2' DURING DRILLING, DRY AFTER DRILLING. CAVE DEPTH 22.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: CUY-CCG3	DRILLING FIRM / OPERATOR: BARR / J.GILBERT	DRILL RIG: CME 55X	STATION / OFFSET: 48+17, 70' LT.	EXPLORATION ID: B-007-0-14
TYPE: RETAINING WALL	SAMPLING FIRM / LOGGER: BARR / J.GILBERT	HAMMER: CME AUTOMATIC	ALIGNMENT: IR-77	
PID: 82380 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 1/26/14	ELEVATION: 689.2 (MSL) EOB: 61.5 ft.	PAGE: 1 OF 2
START: 4/13/15 END: 4/14/15	SAMPLING METHOD: SPT	ENERGY RATIO (%): 81.2	LAT / LONG: 41.489813, -81.666676	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, CONTAINS FEW BRICK FRAGMENTS AND ROOTS, DAMP (FILL)	689.2	1	2 6	16	83	SS-1	-	8	11	37	33	11	NP	NP	NP	15	A-4a (2)	<< << <<
VERY SOFT, GRAY, SILT AND CLAY , LITTLE SAND, TRACE GRAVEL, WET (FILL)	686.7 686.2	2 3	2 3	8	39	SS-2A SS-2B	0.00	-	-	-	-	-	-	-	-	22 20	A-6a (V) A-3a (V)	<< << <<
LOOSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET (FILL)	684.7	4	21	83	100	SS-3	-	-	-	-	-	-	-	-	-	36	A-3a (V)	<< << <<
VERY DENSE, BLuish GRAY WITH BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, COMPOSED OF SLAG, WET (FILL)	682.2	5	31 30															<< << <<
MEDIUM DENSE, BROWN WITH REDDISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, COMPOSED OF BRICK FRAGMENTS, DAMP (FILL)	680.2	6	10 8	27	56	SS-4	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	<< << <<
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (POSSIBLE FILL)	677.2	7	4 3	7	67	SS-5	-	19	46	23	8	4	NP	NP	NP	11	A-1-b (0)	<< << <<
LOOSE, LIGHT BROWN TO BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	674.7	8	2 3	8	83	SS-6	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<< << <<
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE GRAVEL, DAMP	672.2	9	3 6	15	83	SS-7	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	<< << <<
MEDIUM DENSE, LIGHT BROWN TO BROWN, FINE SAND , TRACE SILT, TRACE CLAY, TRACE COARSE SAND, TRACE GRAVEL, DAMP	672.2	10	3 5	11	83	SS-8	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<< << <<
LOOSE TO MEDIUM DENSE, LIGHT BROWN AND BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET	667.2	11	4 5	16	100	SS-9	-	0	0	92	7	1	NP	NP	NP	7	A-3 (0)	<< << <<
@27.5'; SS-12 BECOMES VERY LOOSE, BROWN	661.7	12	2	9	100	SS-11	-	-	-	-	-	-	-	-	-	15	A-3a (V)	<< << <<
		13	3	14	100	SS-10	-	-	-	-	-	-	-	-	-	-	13	A-3a (V)
		14	1	4	22	SS-12	-	-	-	-	-	-	-	-	-	29	A-3a (V)	<< << <<
		15	2															<< << <<
		16																<< << <<
		17																<< << <<
		18																<< << <<
		19																<< << <<
		20																<< << <<
		21																<< << <<
		22																<< << <<
		23																<< << <<
		24																<< << <<

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 48+17, 70' LT.		START: 4/13/15		END: 4/14/15		PG 2 OF 2		B-007-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 659.2	DEPTHS		SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
											GR	CS	FS	SI	CL	LL	PL	PI			
LOOSE TO MEDIUM DENSE, LIGHT BROWN AND BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)			655.9	31	1	4	7	100	SS-13	-	1	0	74	20	5	NP	NP	NP	31	A-3a (0)	<V>
MEDIUM DENSE, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO WET				32																	<V>
			33																		<V>
			34																		<V>
			35	2																	<V>
			36	5	5	14	100	SS-14	-	-	-	-	-	-	-	-	-	29	A-4b (V)	<V>	
			37																		<V>
			38																		<V>
			39																		<V>
			40	5																	<V>
			41	8	9	23	100	SS-15	-	0	2	6	77	15	25	23	2	20	A-4b (8)	<V>	
			42																		<V>
			43																		<V>
			44																		<V>
			45	3																	<V>
			46	6	6	16	100	SS-16	-	-	-	-	-	-	-	-	-	25	A-4b (V)	<V>	
			47																		<V>
			48																		<V>
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, LITTLE SILT, TRACE CLAY, MOIST			640.9	49																	<V>
			50	4																	<V>
			51	6	8	19	100	SS-17	-	-	-	-	-	-	-	-	-	14	A-3a (V)	<V>	
			52																		<V>
			53																		<V>
			54																		<V>
			55	14																	<V>
			56	29	43	97	100	SS-18A	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<V>	
VERY DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST			633.5	56				SS-18B	-	-	-	-	-	-	-	-	-	19	A-4a (V)	<V>	
			630.9	57																	<V>
			630.9	58																	<V>
STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			627.7	59																	<V>
			60	4																	<V>
			61	4	6	14	100	SS-19	1.60	1	0	2	57	40	29	17	12	24	A-6a (9)	<V>	
			627.7	61																	<V>

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING. CAVE DEPTH 38.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>46+62, 157' RT.</u>	EXPLORATION ID <u>B-008-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / Z.JEWELL</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>679.3 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>10/30/14</u> END: <u>10/30/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.489976, -81.665688</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", TOPSOIL	678.8	1	5	23	100	SS-1	-	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	<< << <<
MEDIUM DENSE, BROWN, GRAVEL WITH SAND, LITTLE SILT, TRACE CLAY, SS-2 CONTAINS GLASS FRAGMENTS, DAMP (FILL)		2	5																<< << <<
		3	6	14	100	SS-2	-	8	45	31	11	5	NP	NP	NP	8	A-1-b (0)	<< << <<	
	674.8	4	5	4															<< << <<
LOOSE TO MEDIUM DENSE, BROWN TO LIGHT BROWN, FINE SAND, LITTLE COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP		5	3	5	100	SS-3	-	3	15	78	3	1	NP	NP	NP	8	A-3 (0)	<< << <<	
		6	1	2															<< << <<
		7																	<< << <<
		8	3	11	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3 (V)	<< << <<	
		9																	<< << <<
		10	2	11	100	SS-5	-	-	-	-	-	-	-	-	-	5	A-3 (V)	<< << <<	
		11	3	4															<< << <<
		12																	<< << <<
		13	6	18	100	SS-6	-	-	-	-	-	-	-	-	-	4	A-3 (V)	<< << <<	
	664.8	14	5	7															<< << <<
LOOSE TO MEDIUM DENSE, BROWN TO LIGHT BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP @15.0'; SS-7 AND SS-10 CONTAIN FEW IRON STAINS @17.0'; SS-8 TO SS-10 BECOME WET		15	4	11	100	SS-7	-	0	1	82	13	4	NP	NP	NP	8	A-3a (0)	<< << <<	
		16	4	3															<< << <<
		17																	<< << <<
		18	2	8	100	SS-8	-	-	-	-	-	-	-	-	-	16	A-3a (V)	<< << <<	
		19	2	3															<< << <<
		20	4	11	100	SS-9	-	-	-	-	-	-	-	-	-	23	A-3a (V)	<< << <<	
		21	3	4															<< << <<
		22																	<< << <<
		23	6	26	100	SS-10	-	-	-	-	-	-	-	-	-	23	A-3a (V)	<< << <<	
	654.8	24	7	10															<< << <<
MEDIUM DENSE, GRAYISH BROWN, SILT, TRACE CLAY, TRACE SAND, TRACE GRAVEL, WET		25	5	17	100	SS-11	-	1	0	6	86	7	NP	NP	NP	27	A-4b (8)	<< << <<	
	652.3	26	5	6															<< << <<
		27																	<< << <<
MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, WET		28	6	27	100	SS-12	-	-	-	-	-	-	-	-	-	20	A-3a (V)	<< << <<	
		29	8	10															<< << <<
	649.3																		<< << <<

▼ 24 hrs
w 659.8

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 46+62, 157' RT.		START: 10/30/14		END: 10/30/14		PG 2 OF 2		B-008-0-14											
MATERIAL DESCRIPTION AND NOTES			ELEV. 649.3	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL					
										GR	CS	FS	SI	CL	LL	PL	PI								
DENSE TO VERY DENSE, GRAYISH BROWN, FINE SAND, TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, WET			649.3	31	7 11 11	33	100	SS-13	-	1	2	87	8	2	NP	NP	NP	25	A-3 (0)						
				32																					
				33																					
				34																					
				35																					
				36																					
				37																					
VERY STIFF, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			641.3	38																					
				39																					
MEDIUM DENSE, GRAY, SILT, "AND" SAND, TRACE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 136.4 PCF @ 19.2 % MC @45.0'; SS-17 BECOMES GRAYISH BROWN			637.3	40	8 8	24	100	SS-15	3.00	-	-	-	-	-	-	-	-	22	A-4b (V)						
				41																					
				42																					
				43																					
				44						29		ST-16	-	0	0	37	58	5	NP		NP	NP	19	A-4b (6)	
				45																					
				46																					
VERY STIFF, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, (INTERBEDDED SILT AND CLAY) CONTAINS FINE SAND POCKETS, MOIST			630.8	47																					
				48																					
				49																					
				50																					
				51																					
				52																					
				53																					
DENSE TO VERY DENSE, GRAYISH BROWN, SILT, LITTLE SAND, TRACE CLAY, TRACE GRAVEL, WET			625.8	54																					
				55																					
				56																					
				57																					
				58																					
				59																					
				60																					
@60.0'; SS-20 CONTAINS CLAY LENSES AND TRACE COAL FRAGMENTS			617.8	61	17 20 21	62	100	SS-20	-	0	0	18	73	9	NP	NP	NP	21	A-4b (8)						
				EOB																					

NOTES: GROUNDWATER ENCOUNTERED AT 19.5' DURING DRILLING, 16.0' 24 HOURS AFTER DRILLING. CAVE DEPTH 18.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 47+37, 96' RT.		START: 4/3/15		END: 4/7/15		PG 2 OF 2		B-009-0-14											
MATERIAL DESCRIPTION AND NOTES				ELEV. 649.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
											GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET (continued)				646.2	31	5 6	15	100	SS-13	-	-	-	-	-	-	-	-	-	20	A-4b (V)					
					32																				
					33																				
					34																				
					35	4 5	18	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		-	14	A-3a (V)	
MEDIUM DENSE TO DENSE, DARK GRAY, COARSE AND FINE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST				631.2	36																				
					37																				
					38																				
					39																				
					40	6 9	24	100	SS-15	-	-	-	-	-	-	-	-	-	-	-		-	24	A-3a (V)	
STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST				626.2	41	11 12 19	42	100	SS-16	-	-	-	-	-	-	-	-	-	18	A-3a (V)					
					42																				
					43																				
					44																				
					45																				
STIFF TO VERY STIFF, GRAY, SILT, "AND" CLAY, LITTLE SAND, TRACE GRAVEL, MOIST TO WET				618.0	46	3 4	14	100	SS-17	1.60	0	0	4	51	45	28	16	12	21	A-6a (9)					
					47																				
					48																				
					49																				
					50	8 9	31	100	SS-18	3.00	0	0	12	52	36	27	17	10	19			A-4b (8)			
				618.0	51																				
					52																				
					53																				
					54																				
					55	6 13 14	37	100	SS-19	1.75	-	-	-	-	-	-	-	-	-	-		-	26	A-4b (V)	
				618.0		EOB																			

NOTES: GROUNDWATER ENCOUNTERED DURING DRILLING AT 20.0'. CAVE IN DEPTH 31.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>48+23, 8' LT.</u>	EXPLORATION ID <u>B-010-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>695.7 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/10/14</u> END: <u>12/10/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.489954, -81.666544</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	695.7																		
12.0", CONCRETE	695.2	1																	
6.0", GRANULAR BASE	694.2	2																	
DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, SS-1 CONTAINS SILT SEAMS, DAMP	693.7	3	9	12	38	100	SS-1	-	3	13	63	16	5	NP	NP	NP	6	A-3a (0)	
		4		15															
		5	10																
		6		15	42	100	SS-2	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		7																	
	686.7	8	11	14	48	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
		9		18															
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 49+42, 44' LT.		START: 12/3/14		END: 12/3/14		PG 2 OF 2		B-011-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 666.3	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
											GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP <i>(continued)</i>			663.0	31	4	4	12	100	SS-12	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<>		
				32																	<>		
MEDIUM DENSE, GRAYISH BROWN, SILT , LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, MOIST TO WET			663.0	33																	<>		
				34																		<>	
				35	2	9	17	100	SS-13	-	-	-	-	-	-	-	-	-	26	A-4b (V)	<>		
				36																		<>	
				37																		<>	
				38																			<>
				39																			<>
@40.0'; BECOMES GRAY				40	3	7	14	100	SS-14	-	-	-	-	-	-	-	-	-	23	A-4b (V)	<>		
				41																			<>
				42																			<>
			43																			<>	
			44																			<>	
			45	5	7	18	100	SS-15	-	0	1	11	74	14	NP	NP	NP	20	A-4b (8)	<>			
			46																			<>	
			47																			<>	
			48																			<>	
STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, WET			648.0	49																		<>	
			50	3	5	12	100	SS-16	-	-	-	-	-	-	-	-	-	30	A-4b (V)	<>			
			51																			<>	
			52																			<>	
			53																			<>	
			54																			<>	
			55	3	4	11	100	SS-17	-	0	1	5	71	23	28	20	8	29	A-4b (8)	<>			
			56																			<>	
			57																			<>	
			58																			<>	
VERY DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, MOIST			638.0	59																		<>	
			60																			<>	
			634.8	61	7	14	53	100	SS-18	-	-	-	-	-	-	-	-	15	A-3a (V)	<>			
				EOB	21																	<>	

NOTES: GROUNDWATER ENCOUNTERED AT 31.9' DURING DRILLING. CAVE DEPTH 21.7'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>48+34, 110' RT.</u>	EXPLORATION ID <u>B-012-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>4.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>680.0 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/19/14</u> END: <u>11/20/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.490221, -81.666299</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", TOPSOIL	679.5		3															
MEDIUM DENSE, DARK BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, SLIGHTLY ORGANIC, CONTAINS FEW ROOTS HAIRS, BRICK AND ASPHALT FRAGMENTS, MOIST (FILL) @2.5'; SS-2 CHANGES TO DARK BROWN AND GRAY, CONTAINS FEW ROOTS AND GLASS FRAGMENTS	675.5		5 12	22	78	SS-1	-	-	-	-	-	-	-	-	12	A-1-b (V)	<<<<<<	
MEDIUM DENSE, LIGHT BROWN, FINE SAND , LITTLE GRAVEL, TRACE COARSE SAND, TRACE SILT, TRACE CLAY, DAMP (FILL) @7.5'; SS-4 CONTAINS GLASS FRAGMENTS	670.5		8 7 5	16	56	SS-2	-	49	18	18	11	4	NP	NP	NP	11	A-1-b (0)	<<<<<<
LOOSE, LIGHT BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, CONTAINS FEW ROOTS, DAMP	668.0		5 6 5	14	100	SS-3	-	-	-	-	-	-	-	-	7	A-3 (V)	<<<<<<	
LOOSE TO MEDIUM DENSE, LIGHT BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET	663.0		3 4 4	11	100	SS-4	-	-	-	-	-	-	-	-	7	A-3 (V)	<<<<<<	
VERY LOOSE TO MEDIUM DENSE, GRAYISH BROWN AND BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET	662.5	W 662.5	3 3 3	8	100	SS-5	-	0	8	82	6	4	NP	NP	NP	7	A-3 (0)	<<<<<<
LOOSE TO MEDIUM DENSE, LIGHT BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET	663.0		3 3 5	11	100	SS-6	-	-	-	-	-	-	-	-	15	A-3a (V)	<<<<<<	
@15.0'; SS-7 BECOMES BROWN	663.0		3 2 3	7	100	SS-7	-	-	-	-	-	-	-	-	24	A-3a (V)	<<<<<<	
VERY LOOSE TO MEDIUM DENSE, GRAYISH BROWN AND BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET	663.0	W 662.5	1 1 2	4	100	SS-8	-	-	-	-	-	-	-	-	37	A-4a (V)	<<<<<<	
@22.5'; SS-10 BECOMES GRAYISH BROWN	663.0		2 3 9	16	100	SS-9	-	1	1	61	33	4	NP	NP	NP	27	A-4a (0)	<<<<<<
MEDIUM DENSE TO DENSE, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST	655.5		8 11 12	30	100	SS-10	-	-	-	-	-	-	-	-	23	A-4a (V)	<<<<<<	
MEDIUM DENSE TO DENSE, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST	655.5		6 7 9	21	100	SS-11	-	-	-	-	-	-	-	-	25	A-4b (V)	<<<<<<	
MEDIUM DENSE TO DENSE, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST	655.5		5 7 12	25	100	SS-12	-	-	-	-	-	-	-	-	21	A-4b (V)	<<<<<<	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 48+34, 110' RT.		START: 11/19/14		END: 11/20/14		PG 2 OF 2		B-012-0-14										
MATERIAL DESCRIPTION AND NOTES				ELEV. 650.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
											GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE TO DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)				641.7	31	8 13 15	37	100	SS-13	-	-	-	-	-	-	-	-	-	19	A-4b (V)				
					32																			
					33																			
					34																			
					35	6 11 12	30	100	SS-14	-	1	0	5	80	14	26	22	4	20	A-4b (8)				
					36																			
DARK GRAY, COARSE AND FINE SAND, SOME SILT, LITTLE GRAVEL, TRACE CLAY, MOIST				636.7	38																			
					39																			
					40																			
DENSE, GRAY MOTTLED WITH DARK GRAY, SILT, "AND" SAND, TRACE CLAY, TRACE GRAVEL, WET				631.7	41			100	SS-15	-	-	-	-	-	-	-	-	-	16	A-3a (V)				
					42																			
					43																			
HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, MOIST				626.7	44																			
					45	10 14 17	41	100	SS-16	-	0	5	35	54	6	NP	NP	NP	21	A-4b (5)				
					46																			
DENSE TO VERY DENSE, GRAY, SILT, LITTLE SAND, TRACE CLAY, TRACE GRAVEL, WET				618.5	47																			
					48																			
					49																			
				EOB	50	6 11 13	32	100	SS-17	-	0	0	7	72	21	28	19	9	22	A-4b (8)				
					51																			
					52																			
				EOB	53																			
					54																			
					55	13 24 26	66	100	SS-18	-	0	0	17	73	10	NP	NP	NP	20	A-4b (8)				
				EOB	56																			
					57																			
					58																			
				EOB	59																			
					60																			
					61	7 12 19	41	100	SS-19	-	-	-	-	-	-	-	-	-	21	A-4b (V)				

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING. CAVE DEPTH 18.0'

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:07 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 48+38, 209' RT.		START: 11/26/14		END: 11/26/14		PG 2 OF 2		B-013-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 646.6	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
											GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, WET (continued)			643.3	31	2	3	8	100	SS-13	-	-	-	-	-	-	-	-	-	28	A-4b (V)		
MEDIUM DENSE, GRAYISH BROWN, GRAVEL WITH SAND, TRACE SILT, TRACE CLAY, WET				32																		
				33																		
DENSE, GRAY, SILT, LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET			638.3	34																		
				35	5	8	13	28	100	SS-14	-	16	33	41	8	2	NP	NP	NP	16		A-1-b (0)
DENSE, GRAY, SILT, LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET			624.8	36																		
				37																		
				38																		
				39																		
				40	9	13	14	35	100	SS-15	-	-	-	-	-	-	-	-	-	25		A-4b (V)
				41																		
				42																		
				43																		
				44																		
				45	8	12	22	45	100	SS-16	-	-	-	-	-	-	-	-	-	23		A-4b (V)
@50.0'; ST-17 NO RECOVERY			46																			
			47																			
			48																			
			49																			
			50																			
			51					0	SS-17	-	-	-	-	-	-	-	-	-	-			
STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			624.8	52	3	3	8	100	SS-18	1.60	-	-	-	-	-	-	-	-	21	A-6a (V)		
			622.3	53																		
DENSE TO VERY DENSE, GRAY, SILT, LITTLE SAND, TRACE CLAY, TRACE GRAVEL, WET			615.1	54																		
				55	14	21	29	66	100	SS-19	-	0	0	17	74	9	NP	NP	NP	20		A-4b (8)
				56																		
				57																		
				58																		
				59																		
			60	5	19	19	50	100	SS-20	-	-	-	-	-	-	-	-	-	21	A-4b (V)		
			61																			

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING. CAVE DEPTH 16.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>48+11, 420' RT.</u>	EXPLORATION ID <u>B-014-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.4 (MSL)</u> EOB: <u>8.5 ft.</u>	
START: <u>12/9/14</u> END: <u>12/9/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.490823, -81.665493</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	678.4																	
24.0", CONCRETE	677.9	1															X	
	675.9	2															X	
4.0", GRANULAR BASE	675.6	3	4														X	
LOOSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (FILL)	674.4	4	4	10	78	SS-1	-	8	33	43	10	6	NP	NP	NP	6	A-3a (0)	
VERY LOOSE TO LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (POSSIBLE TRENCH BACKFILL)		5	2	6	100	SS-2	-	11	15	67	4	3	NP	NP	NP	7	A-3 (0)	
		6	2	5	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		7	1	3													<L>	
		8	1	4	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
	669.9	EOB	2														<L>	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 49+85, 127' LT.		START: 1/28/15		END: 1/28/15		PG 2 OF 2		B-015-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 653.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE TO MEDIUM DENSE, BROWN, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET (continued)			653.8	31	4 5 6	14	100	SS-12	-	-	-	-	-	-	-	-	-	23	A-4b (V)					
				32																				
				33																				
				34																				
				35	3																			
				36	2 3	6	100	SS-13	-	0	0	3	80	17	27	21	6	31	A-4b (8)					
				37																				
				38																				
				39																				
				40	2																			
MEDIUM DENSE TO DENSE, GRAY, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET TO MOIST			640.5	41	4 5	12	100	SS-14	-	-	-	-	-	-	-	-	-	22	A-4b (V)					
				42																				
				43																				
				44																				
				45	7																			
				46	10 17	35	100	ST-15	-	-	-	-	-	-	-	-	-	16	A-3a (V)					
				47																				
				48																				
				49																				
				50	5																			
DENSE, DARK GRAYISH BROWN, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST			630.5	51	7 12	25	100	SS-16	-	-	-	-	-	-	-	-	12	A-3a (V)						
				52																				
				53																				
				54																				
				55	16																			
				56	10 15	32	100	SS-17	-	0	0	10	69	21	23	18	5	21		A-4b (8)				
				57																				
				58																				
				59																				
				60																				
@61.5; Unit Weight: 130.9 pcf @ 15.6% mc			621.8	61			83	SS-18	-	1	0	3	57	39	29	19	10	23	A-4b (8)					
				62																				

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 18.0'

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>54+08, 493' LT.</u>	EXPLORATION ID <u>B-016-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>668.4 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE 1 OF 1
START: <u>1/28/15</u> END: <u>1/28/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.489564, -81.669046</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
10.0", CONCRETE	668.4																		
14.0", GRANULAR BASE	667.6	1																	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	666.4	2	5																
	664.9	3	4	13	100	SS-1	-	49	16	26	6	3	NP	NP	NP	5	A-1-b (0)	< L V < > L V >	
MEDIUM DENSE, LIGHT BROWN, FINE SAND , SOME GRAVEL, LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, DRY	663.4	4	9	10	30	100	SS-2	-	35	12	43	7	3	NP	NP	NP	4	A-3 (0)	< L V < > L V >
	663.4	5	10	13															
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	660.4	6	8	9	22	100	SS-3	-	56	13	22	7	2	NP	NP	NP	4	A-1-b (0)	< L V < > L V >
	660.4	7	7	9	23	100	SS-4	-	-	-	-	-	-	-	-	-	5	A-1-b (V)	< L V < > L V >
		8	9	9															

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 49+71, 124' RT.		START: 11/19/14		END: 11/19/14		PG 2 OF 2		B-017-0-14										
MATERIAL DESCRIPTION AND NOTES				ELEV. 646.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
											GR	CS	FS	SI	CL	LL	PL	PI						
LOOSE TO MEDIUM DENSE, GRAYISH BROWN, SILT , LITTLE CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET (continued)				646.3	31	3	8	100	SS-13	-	-	-	-	-	-	-	-	-	27	A-4b (V)				
					32																			
					33																			
@40.0': SS-15A BECOMES MOIST MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, MOIST				636.0	35	3	20	100	SS-14	-	-	-	-	-	-	-	-	-	25	A-4b (V)				
					36																			
					37																			
DENSE, GRAYISH BROWN, SILT , "AND" SAND, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST				633.0	40	7	30	100	SS-15A	-	-	-	-	-	-	-	-	-	17	A-4b (V)				
					41						SS-15B	-	-	-	-	-	-	-	-	-		13	A-3a (V)	
					42																			
GRAY, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, WET @50.2': UNIT WEIGHT: 140.8 PCF @ 15.0% MC				628.0	45	8	39	100	SS-16	-	-	-	-	-	-	-	-	-	20	A-4b (V)				
					46																			
					47																			
VERY DENSE, GRAYISH BROWN, SILT , LITTLE TO SOME SAND, LITTLE CLAY, TRACE GRAVEL, MOIST TO WET				623.0	50			100	SS-17	-	5	21	61	10	3	NP	NP	NP	15	A-3a (0)				
					51																			
					52																			
				614.8	55	17	67	100	SS-18	-	-	-	-	-	-	-	-	-	16	A-4b (V)				
					56																			
					57																			
				614.8	60	16	60	100	SS-19	-	-	-	-	-	-	-	-	-	21	A-4b (V)				
					61																			
					EOB																			

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 14.0'

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 51+61, 170' LT.		START: 12/18/14		END: 12/18/14		PG 2 OF 2		B-018-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 650.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE TO MEDIUM DENSE, GRAYISH BROWN, SILT, SOME SAND, TRACE CLAY, TRACE GRAVEL, MOIST TO WET <i>(continued)</i>			650.3	31	2 3	6	100	SS-13	-	-	-	-	-	-	-	-	-	33	A-4b (V)					
				32																				
				33																				
				34																				
				35	3																			
				36	3 4	9	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		-	29	A-4b (V)	
				37																				
				38																				
				39																				
				40	3																			
41	3 3	8	100	SS-15	-	0	1	5	70	24	28	21	7	23	A-4b (8)									
42																								
43																								
44																								
45	6																							
46	12 15	35	100	SS-16	-	-	-	-	-	-	-	-	-	-	-	-	10	A-1-b (V)						
47																								
48																								
49																								
50	11							SS-17A	-	48	31	14	5	2	NP	NP	NP	6	A-1-b (0)					
51	12 18	39	100	SS-17B	-	-	-	-	-	-	-	-	-	-	-	-	-	23	A-4b (V)					
52																								
53																								
54																								
55	5																							
56	6 8	18	100	SS-18	-	-	-	-	-	-	-	-	-	-	-	-	31	A-4b (V)						
57																								
58																								
59																								
60	4																							
61	13 21	44	100	SS-19	-	0	1	19	73	7	NP	NP	NP	22	A-4b (8)									

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING, 32.8' UPON COMPLETION. CAVE DEPTH 7.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>55+73, 8' LT.</u>	EXPLORATION ID <u>B-021-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>699.0 (MSL)</u> EOB: <u>9.0 ft.</u>	PAGE 1 OF 1
START: <u>12/10/14</u> END: <u>12/10/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.490950, -81.668910</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
6.0", ASPHALT	698.5																		
12.0", CONCRETE	697.5	1																	
6.0", GRANULAR BASE	697.0	2																	
MEDIUM DENSE, BROWN, SANDY SILT , LITTLE CLAY, LITTLE GRAVEL, CONTAINS FEW BRICK FRAGMENTS, DAMP (FILL)	694.5	3	4	5	6	17	100	SS-1	-	11	20	24	32	13	22	15	7	11	A-4a (2)
LOOSE, BROWN, GRAVEL WITH SAND AND SILT , LITTLE CLAY, CONTAIN BRICK FRAGMENTS, DAMP (FILL)	692.0	5	4	2	3	8	22	SS-2	-	21	20	24	24	11	22	16	6	14	A-2-4 (0)
DENSE, BROWN, SANDY SILT , SOME GRAVEL, TRACE CLAY, DAMP (FILL)	690.0	7	9	13	17	45	100	SS-3	-	-	-	-	-	-	-	-	-	9	A-4a (V)
		8																	
		9																	
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>351+46, 28' RT.</u>	EXPLORATION ID <u>B-022-0-14CPT</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.SHOPE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP H2</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>4.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>680.2 (MSL)</u> EOB: <u>6.5 ft.</u>	PAGE 1 OF 1
START: <u>10/22/14</u> END: <u>10/22/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	COORD: <u>Not Recorded</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	ABAN- DONED
								GR	CS	FS	SI	CL	LL	PL	PI			
9.0", ASPHALT	680.2																	
6.0", GRANULAR BASE	679.5																	
MEDIUM DENSE TO VERY DENSE, DARK BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS MANY BRICK FRAGMENTS AND FEW ASPHALT FRAGMENTS, DAMP TO MOIST (FILL)	679.0	1																
		2	10	22	55	100	SS-1	-	-	-	-	-	-	-	-	-	11	A-1-b (V)
		3	10	10	29	100	SS-2	-	-	-	-	-	-	-	-	-	14	A-1-b (V)
		4																
	674.7	5																
MEDIUM DENSE, LIGHT BROWN, FINE SAND , LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	673.7	6	4	4	12	89	SS-3	-	14	15	65	4	2	NP	NP	NP	6	A-3 (0)
		EOB																

NOTES: CPT BORING. GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>50+49, 305' RT.</u>	EXPLORATION ID <u>B-023-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/9/14</u> END: <u>12/9/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491040, -81.666570</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
5.0", ASPHALT	678.9																		
18.0", CONCRETE	678.5	1																	
4.0", GRANULAR BASE	677.0	2	3																
MEDIUM DENSE, BROWN AND BLACK, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, SS-1 CONTAINS ASPHALT FRAGMENTS, DAMP	676.7	3	4	5	12	100	SS-1	-	26	25	35	10	4	NP	NP	NP	6	A-1-b (0)	
(FILL) @3.5'; SS-2 CONTAINS CONCRETE FRAGMENTS	673.9	4	9	4	17	56	SS-2	-	48	24	16	9	3	NP	NP	NP	6	A-1-b (0)	
LOOSE, BROWN AND GRAY, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP	672.4	5	5	3	8	89	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
(FILL)	672.4	6	3	3															
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	670.9	7	2	2	5	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
	670.9	8	2	2															
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 52+36, 140' RT.		START: 10/22/14		END: 10/23/14		PG 2 OF 3		B-024-0-14											
MATERIAL DESCRIPTION AND NOTES				ELEV. 650.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
											GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE TO MEDIUM DENSE, GRAY, SILT, LITTLE SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, WET (continued)				650.0	31	3	8	100	SS-13	-	-	-	-	-	-	-	-	-	26	A-4b (V)					
					32																				
					33																				
					34																				
					35	4																			
					36	3	5	11	100	SS-14	-	-	-	-	-	-	-	-	-	-		-	28	A-4b (V)	
					37																				
					38																				
					39																				
					40	3																			
41	3	5	11	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	30	A-4b (V)							
42																									
43																									
DENSE, GRAYISH BROWN, GRAVEL WITH SAND, LITTLE SILT, TRACE CLAY, DAMP				636.5	44																				
					45	10																			
					46	16	13	38	50	SS-16	-	37	24	23	13	3	NP	NP	NP	10	A-1-b (0)				
					47																				
					48																				
					49																				
					50	13																			
					51	30	26	74	100	SS-17	1.75	2	3	16	57	22	23	16	7	22	A-4b (8)				
					52																				
					53																				
54																									
55	4																								
56	6	8	18	100	SS-18	1.20	-	-	-	-	-	-	-	-	-	-	25	A-4b (V)							
57																									
58																									
59																									
60	4																								
61	4	6	13	100	SS-19	1.10	0	0	4	73	23	24	16	8	20	A-4b (8)									

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 52+36, 140' RT. START: 10/22/14 END: 10/23/14 PG 3 OF 3 B-024-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 617.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
STIFF TO HARD, GRAY, SILT, LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET TO MOIST (continued) @65.0'; BECOMES DAMP @75.0'; SS-22 AND SS-23 BECOME GRAYISH BROWN		63																	
		64																	
		65		12															
		66		17 22	51	100	SS-20	4.5+	-	-	-	-	-	-	-	16	A-4b (V)		
		67																	
		68																	
		69																	
		70		17															
		71		23 30	70	100	SS-21	4.5+	0	0	3	78	19	24	17	7	17	A-4b (8)	
		72																	
	73																		
	74																		
	75		16																
	76		21 27	63	100	SS-22	4.5+	0	0	3	78	19	25	19	6	17	A-4b (8)		
	77																		
	78																		
	79																		
	80		24																
	81		24 28	68	100	SS-23	1.75	-	-	-	-	-	-	-	17	A-4b (V)			
	598.5	EOB																	

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING, 16.5' UPON COMPLETION. CAVE DEPTH 17.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .25 BAG ASPHALT PATCH; POURED 1 BAG CEMENT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>54+79, 56' LT.</u>	EXPLORATION ID <u>B-028-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>4.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.9 (MSL)</u> EOB: <u>96.5 ft.</u>	PAGE 1 OF 4
START: <u>11/17/14</u> END: <u>11/18/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.490738, -81.668655</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE, BROWN AND DARK GRAY, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, CONTAINS MANY WOOD FRAGMENTS, MOIST (FILL) MEDIUM DENSE, BROWN, FINE SAND , TRACE TO LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP F.S.	678.9		3																
		676.9	1	3	9	89	SS-1	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<<<<
			2	4															<<<<<<
			3	4	11	100	SS-2	-	3	12	78	4	3	NP	NP	NP	7	A-3 (0)	<<<<<<
			4	4															<<<<<<
			5	3															<<<<<<
			6	4	11	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<<<<<<
			7																<<<<<<
			8	3															<<<<<<
			9	3	11	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3 (V)	<<<<<<
			10	5															<<<<<<
		666.9	11	5	13	100	SS-5	-	0	0	94	5	1	NP	NP	NP	5	A-3 (0)	<<<<<<
LOOSE, BROWN TO BROWN AND GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET @12.5'; SS-6 CONTAINS A 1 1/2" SEAM OF "SILT AND CLAY" @20.0'; BECOMES GRAY		12	3															<<<<<<	
			13	2	5	100	SS-6	-	-	-	-	-	-	-	-	24	A-4a (V)	<<<<<<	
			14	2														<<<<<<	
		661.9	15	2	9	100	SS-7	-	0	0	60	36	4	NP	NP	NP	26	A-4a (1)	<<<<<<
		16	5															<<<<<<	
		17																<<<<<<	
		18	5	22	100	SS-8	-	-	-	-	-	-	-	-	-	20	A-4b (V)	<<<<<<	
		19	8															<<<<<<	
		20	4	18	100	SS-9	-	1	0	33	59	7	NP	NP	NP	24	A-4b (6)	<<<<<<	
		21	6															<<<<<<	
		22																<<<<<<	
		23	4	14	100	SS-10	-	-	-	-	-	-	-	-	-	25	A-4b (V)	<<<<<<	
		24	5															<<<<<<	
		25	5	14	100	SS-11	-	-	-	-	-	-	-	-	-	23	A-4b (V)	<<<<<<	
		26	6															<<<<<<	
		27	5															<<<<<<	
		28	3	8	100	SS-12	-	-	-	-	-	-	-	-	-	27	A-4b (V)	<<<<<<	
		29	3															<<<<<<	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 54+79, 56' LT.		START: 11/17/14		END: 11/18/14		PG 2 OF 4		B-028-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 648.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE TO MEDIUM DENSE, BROWN, SILT, SOME SAND, TRACE CLAY, TRACE GRAVEL, WET (continued) @30.0'; ST-13 NO RECOVERY @35.0'; SS-14 BECOMES LITTLE CLAY, TRACE SAND, TRACE GRAVEL			648.9	31			0	ST-13	-	-	-	-	-	-	-	-	-	A-4b (V)				
				32																		
				33																		
				34																		
				35	4																	
				36	4	4	11	100	SS-14	-	1	1	6	77	15	27	22	5		27	A-4b (8)	
				37																		
				38																		
				39																		
				40	3																	
				41	5	6	14	100	SS-15	-	-	-	-	-	-	-	-	-		28	A-4b (V)	
				42																		
				43																		
				44																		
				45	11							SS-16A	-	-	-	-	-	-		-	29	A-4b (V)
46	12	13	33	100	SS-16B	-	-	-	-	-	-	-	-	-	13	A-1-b (V)						
47																						
48																						
49																						
50																						
51						67		ST-17	-	0	1	10	74	15	24	21	3	25	A-4b (8)			
52																						
53																						
54																						
55	5																					
56	6	8	18	100	SS-18	-	-	-	-	-	-	-	-	-	23	A-4b (V)						
57																						
58																						
59																						
60	5																					
61	6	9	20	100	SS-19	-	-	-	-	-	-	-	-	-	24	A-4b (V)						



STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 54+79, 56' LT.		START: 11/17/14		END: 11/18/14		PG 3 OF 4		B-028-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 616.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO VERY DENSE, GRAYISH BROWN, SILT, LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET (continued)				63																				
				64																				
				65	13																			
				66	17 22	51	100	SS-20	-	-	-	-	-	-	-	-	-	-	-	-	24	A-4b (V)		
				67																				
				68																				
				69																				
				70	13																			
				71	21 24	59	100	SS-21	-	-	-	-	-	-	-	-	-	-	-	-	16	A-4b (V)		
				72																				
				73																				
				74																				
				75																				
				76			100	ST-22	-	0	0	5	74	21	NP	18	NP	21	A-4b (8)					
				77																				
				78																				
				79																				
				80	23																			
				81	24 22	60	100	SS-23	-	-	-	-	-	-	-	-	-	-	-	-	18	A-4b (V)		
				82																				
83																								
84																								
85	9																							
86	11 12	30	100	SS-24	-	0	0	1	77	22	27	20	7	20	A-4b (8)									
87																								
88																								
89																								
90	9																							
91	11 14	33	100	SS-25	-	-	-	-	-	-	-	-	-	-	-	-	23	A-4b (V)						
92																								
93																								
94																								

@76.3'; UNIT WEIGHT: 136.6 PCF @ 20.6% MC

585.6

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 54+79, 56' LT.	START: 11/17/14	END: 11/18/14	PG 4 OF 4	B-028-0-14																		
MATERIAL DESCRIPTION AND NOTES		ELEV. 584.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL						
									GR	CS	FS	SI	CL	LL	PL	PI									
STIFF, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)		582.4	95	3	11	30	100	SS-26	1.75	2	1	3	55	39	29	18	11	23	A-6a (8)	<	L	>	<	L	>
			96																	12	<	L	>	<	L

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 20.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>55+22, 626' RT.</u>	EXPLORATION ID <u>B-031-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>682.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/11/15</u> END: <u>2/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492531, -81.667921</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
3.0", ASPHALT	682.6																		
9.0", CONCRETE	682.3 681.6	1																	
6.0", GRANULAR BASE	681.1	2																	
DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, TRACE TO LITTLE SILT, TRACE CLAY, SS-1 CONTAINS BRICK FRAGMENTS, DAMP (FILL) @5.0'; SS-3 AND SS-4 CONTAIN IRON STAINING, GLASS AND BRICK FRAGMENTS		3	13	35	100	SS-1	-	21	21	39	11	8	NP	NP	NP	9	A-3a (0)		
		4	11	35	100	SS-2	-	11	17	57	9	6	NP	NP	NP	7	A-3a (0)		
		5	7	-	100	SS-3	-	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
		6	50/4"																
		7	12	40	100	SS-4	-	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
	674.6	8	15																
		EOB	16																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>54+95, 227' LT.</u>	EXPLORATION ID <u>B-032-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>1/28/15</u> END: <u>1/28/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.490314, -81.668932</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", TOPSOIL	678.6																	
MEDIUM DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, CONTAINS BRICK FRAGMENTS, CINDERS, AND IRON STAINING, DAMP	678.1	1	3															
(FILL)	676.6	2	4	9	17	100	SS-1	-	10	18	35	23	14	NP	NP	NP	11	A-4a (0)
VERY LOOSE TO LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		3	4	4	10	100	SS-2	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		4	1	2	4	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		5	2	2	5	100	SS-4	-	11	20	58	6	5	NP	NP	NP	9	A-3a (0)
		6	2	2	5	100	SS-4	-	11	20	58	6	5	NP	NP	NP	9	A-3a (0)
		7	3	2	5	100	SS-5	-	-	-	-	-	-	-	-	-	8	A-3a (V)
	670.6	8	2	2														

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 56+11, 137' RT. START: 10/22/14 END: 10/24/14 PG 4 OF 4 B-033-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 582.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
VERY STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, WET (continued) @96.5'; QU = 2115 PSF @ 12.0% STRAIN @96.9'; UNIT WEIGHT: 124.9 PCF @ 28.0% MC	577.8	95																	
		96		100		ST-26	-	0	2	4	39	55	30	17	13	28	A-6a (9)		
		97																	
SOFT TO MEDIUM STIFF, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST	564.8	98																	
		99																	
		100	5																
		101	5	5	13	100	SS-27	0.50	-	-	-	-	-	-	-	29	A-6b (V)		
		102																	
		103																	
		104																	
		105	5																
		106	5	6	14	100	SS-28	0.50	1	1	1	32	65	35	19	16	28	A-6b (10)	
107																			
108																			
109																			
110	5																		
111	6	6	15	100	SS-29	0.50	-	-	-	-	-	-	-	-	29	A-6b (V)			

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING. CAVE DEPTH 24.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 57+00, 111' RT.		START: 10/29/14		END: 10/30/14		PG 2 OF 4		B-034-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 648.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
SOFT TO STIFF, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			648.0	31	3 4	11	100	SS-13	0.50	-	-	-	-	-	-	-	-	28	A-4b (V)			
				32																		
				33																		
				34																		
				35	3 4	13	100	SS-14	0.75	-	-	-	-	-	-	-	-	-	-		29	A-4b (V)
MEDIUM DENSE, GRAY, GRAVEL WITH SAND, LITTLE SILT, TRACE CLAY, MOIST			635.0	36																		
				37																		
				38																		
				39																		
				40	5 7	16	100	SS-15	1.25	0	1	6	69	24	30	20	10	29	A-4b (8)			
DENSE, GRAY, SILT, LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, CONTAINS SAND LENSES, MOIST			629.5	41																		
				42																		
				43																		
				44																		
				45	3 4	14	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		12	A-1-b (V)
GRAY, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET			625.0	46																		
				47																		
				48																		
				49																		
				50	11 16 18	45	100	SS-17	-	-	-	-	-	-	-	-	-	-	-		22	A-4b (V)
GRAY, SILT, SOME GRAVEL, LITTLE CLAY, LITTLE SAND, DAMP			622.2	51																		
				52																		
				53																		
STIFF TO VERY STIFF, GRAY WITH RED MOTTLES, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST			620.5	54																		
				55																		
				56			80	ST-18A	-	6	17	59	16	2	NP	NP	NP	17	A-3a (0)			
				57						ST-18B	-	26	2	9	52	11	NP	NP	NP		19	A-4b (6)
				58																		
				59																		
				60																		
				61	9 13 14	35	100	SS-19	2.25	-	-	-	-	-	-	-	-	-	21		A-6b (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 57+00, 111' RT. START: 10/29/14 END: 10/30/14 PG 4 OF 4 B-034-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 583.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO STIFF, GRAY MOTTLED WITH DARK GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST (continued)	576.5	95	10	37	100	SS-27	1.75	0	1	2	56	41	29	17	12	20	A-6a (9)	< >
		96	12															< >
		97																< >
		98																< >
		99																< >
		100	10															< >
		101	12	33	100	SS-28	1.00	1	3	4	43	49	29	18	11	22	A-6a (8)	< >
		EOB	13															< >

NOTES: GROUNDWATER ENCOUNTERED AT 19.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 56+96, 46' RT.		START: 11/3/14		END: 11/4/14		PG 2 OF 2		B-035-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 669.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
										GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (continued)				31	3	9	100	SS-14	-	-	-	-	-	-	-	-	7	A-3 (V)			
				32	4																
				33																	
				34																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET				35	3	14	100	SS-15	-	-	-	-	-	-	-	-	17	A-3a (V)			
				36	4	7															
MEDIUM DENSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET				37																	
				38																	
MEDIUM DENSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET				39																	
				40	10																
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				41	5	15	100	SS-16	-	-	-	-	-	-	-	-	24	A-4a (V)			
				42	7																
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				43																	
				44			117	ST-17	-	0	0	9	79	12	NP	NP	NP	23		A-4b (8)	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				45	3																
				46	5	6	14	100	SS-18	-	-	-	-	-	-	-	-	25		A-4b (V)	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				47																	
				48																	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				49																	
				50	4																
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				51	7	18	100	SS-19	-	0	1	14	73	12	NP	NP	NP	22	A-4b (8)		
				52	7																
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				53																	
				54																	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				55	3																
				56	4	4	10	100	SS-20	-	-	-	-	-	-	-	-	27		A-4b (V)	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				57																	
				58																	
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				59																	
				60	3																
LOOSE TO MEDIUM DENSE, GRAY, SILT , TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET @43.0'; UNIT WEIGHT: 133.3 PCF @ 22.5% MC				61	3	10	100	SS-21	-	-	-	-	-	-	-	-	33	A-4b (V)			
				62	5																

NOTES: GROUNDWATER ENCOUNTERED AT 35.3' DURING DRILLING, 36.5' UPON COMPLETION. CAVE DEPTH 37.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 57+39, 143' RT.	START: 10/23/14	END: 10/27/14	PG 4 OF 4	B-036-0-14														
MATERIAL DESCRIPTION AND NOTES		ELEV. 584.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
									GR	CS	FS	SI	CL	LL	PL	PI					
VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)		582.3	95	13	56	100	SS-28	2.50	0	1	2	49	48	30	18	12	23	A-6a (9)	<L>	<L>	<L>
			96	15 28															<L>	<L>	<L>

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 14.9' DURING DRILLING (AFTER HEAVE), AND 16.3' UPON COMPLETION. CAVE DEPTH 17.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>57+56, 251' RT.</u>	EXPLORATION ID <u>B-037-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>676.7 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE 1 OF 1
START: <u>12/9/14</u> END: <u>12/9/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491784, -81.669296</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", TOPSOIL	676.7																	
LOOSE, DARK BROWN AND BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, ENCOUNTERED BRICK FRAGMENTS, DAMP TO MOIST (FILL)	676.2	1	3	9	100	SS-1	-	11	23	52	9	5	NP	NP	NP	10	A-3a (0)	< > < >
		2	2	5	100	SS-2	-	-	-	-	-	-	-	-	-	12	A-3a (V)	< > < >
@3.5'; SS-3 CHANGES TO DARK GRAY AND BROWN, SOME SILT, LITTLE CLAY, CONTAINS ASPHALT AND CONCRETE FRAGMENTS	671.7	3	3	6	100	SS-3	-	-	-	-	-	-	-	-	-	14	A-3a (V)	< > < >
LOOSE, BROWN, FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE COARSE SAND, TRACE CLAY, DAMP		4	3	6	100	SS-4	-	15	4	74	6	1	NP	NP	NP	10	A-3 (0)	< > < >
		5	3	6	100	SS-4	-	-	-	-	-	-	-	-	-	9	A-3 (V)	< > < >
	668.7	6	3	6	100	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)	< > < >
		7	3	6	100	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)	< > < >
		8	2	6	100	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)	< > < >
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>57+62, 48' RT.</u>	EXPLORATION ID <u>B-038-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>698.7 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>11/4/14</u> END: <u>11/4/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491251, -81.669513</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC				
6.0", ASPHALT	698.2																			
12.0", CONCRETE	697.2	1																		
6.0", GRANULAR BASE	696.7	2	17																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	695.7	3	10	25	100	SS-1	-	-	-	-	-	-	-	-	6	A-3a (V)	<L>			
STIFF TO VERY STIFF, BROWN, GRAY AND DARK GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	692.7	4	8	6	14	100	SS-2	2.00	10	19	28	30	13	22	16	6	A-4a (2)	<L>		
MEDIUM DENSE TO DENSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, LITTLE GRAVEL, TRACE TO LITTLE CLAY, DAMP TO MOIST (FILL)	689.7	5	3	3	9	100	SS-3	3.00	-	-	-	-	-	-	-	12	A-4a (V)	<L>		
		6	5	6	14	26	100	SS-4	-	17	30	22	20	11	22	16	6	12	A-3a (0)	<L>
		7	9	14	35	100	SS-5	-	-	-	-	-	-	-	-	7	A-3a (V)	<L>		
		8																		
		9																		
		EOB																		

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 5.8'
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 57+93, 98' RT.	START: 10/28/14	END: 10/29/14	PG 4 OF 4	B-039-0-14												
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
									GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO HARD, GRAY, SILT, LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET <i>(continued)</i>		587.4																	
			95	22															<L> >L>
		585.2	96	35 39	97	100	SS-27	4.5+	-	-	-	-	-	-	-	-	17	A-4b (V)	<L> >L>
			EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 19.0' DURING DRILLING, 21.0' UPON COMPLETION. CAVE DEPTH 22.0.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>58+48, 49' RT.</u>	EXPLORATION ID <u>B-040-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>697.8 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/4/14</u> END: <u>11/4/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.491319, -81.669814</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	697.8																	
9.0", CONCRETE	697.3 696.6	1																
DENSE TO VERY DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP (FILL)		2																
		3	13	41	100	SS-1	-	-	-	-	-	-	-	-	6	A-1-b (V)		
		4	13 14															
		5																
		6	18	57	100	SS-2	-	27	31	26	11	5	NP	NP	NP	9	A-1-b (0)	
		7	19 19															
DENSE TO VERY DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	690.8	8																
		9	8	47	100	SS-3	-	8	17	32	29	14	19	14	5	10	A-4a (2)	
		10																
@10.0'; SS-4 CONTAINS BRICK FRAGMENTS		11	12	53	100	SS-4	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
		12	21 14															
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE GRAVEL, LITTLE CLAY, DAMP (FILL)	685.8	13																
		14	14	42	100	SS-5	-	-	-	-	-	-	-	-	-	11	A-3a (V)	
		15																
		16	12	26	100	SS-6	-	14	24	31	20	11	NP	NP	NP	11	A-3a (0)	
		17	11 6															
DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, DAMP @17.5'; ENCOUNTERED SAND HEAVE	680.3	18	6	42	100	SS-7	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		19	12 16															
		20																
		21	8	45	100	SS-8	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		22	11 19															
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST	675.8	23	12	26	100	SS-9	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	
		24	10 7															
MEDIUM DENSE TO DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, WET TO MOIST	673.3	25																
		26	6	18	100	SS-10	-	13	13	64	7	3	NP	NP	NP	14	A-3 (0)	
		27	6 6															
		28																
		29	6	20	100	SS-11	-	-	-	-	-	-	-	-	-	13	A-3 (V)	
			7 6															

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 58+48, 49' RT.		START: 11/4/14		END: 11/4/14		PG 2 OF 2		B-040-0-14																																																																																																			
MATERIAL DESCRIPTION AND NOTES			ELEV. 667.8	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL																																																																																												
											GR	CS	FS	SI	CL	LL	PL	PI																																																																																															
MEDIUM DENSE TO DENSE, BROWN, FINE SAND, LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, WET TO MOIST (continued)			667.8	31	6	5	20	100	SS-12	-	-	-	-	-	-	-	-	-	10	A-3 (V)	↖ ↗																																																																																												
																						FS	8	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61																																																												
																																																						6	9	14	35	100	SS-13	-	-	-	-	-	-	-	-	-	-	-	-	13	A-3 (V)	↖ ↗																																							
																																																																											659.5	40	4	5	15	100	SS-14	-	0	0	23	66	11	NP	NP	NP	25	A-4b (8)	↖ ↗																				
																																																																																														4	5	15	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	-	25	A-4b (V)	↖ ↗
4	5	7	18	100	SS-17	-	0	1	2	78	19	27	22	5	29	A-4b (8)	↖ ↗																																																																																																
																		7	8	11	29	100	SS-18	-	-	-	-	-	-	-	-	-	-	25	A-4b (V)	↖ ↗																																																																													

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING, 10.0' UPON COMPLETION. CAVE DEPTH 33.0.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>59+08, 164' LT.</u>	EXPLORATION ID: <u>B-041-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>685.1 (MSL)</u> EOB: <u>9.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>11/20/14</u> END: <u>11/20/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.490798, -81.670230</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
3.0" TOPSOIL	685.1		11																
MEDIUM DENSE, GRAY AND BROWN, GRAVEL, TRACE SAND, TRACE SILT, TRACE CLAY, MOIST (FILL)	684.8	1	8	21	33	SS-1	-	-	-	-	-	-	-	-	-	-	11	A-1-a (V)	<L> <V> <L> >L> >V> >L>
@1.5'; SS-2 IS CUTTINGS/CAVINGS, NO TESTING PERFORMED	682.1	2	6	5	13	3	SS-2	-	-	-	-	-	-	-	-	-	-		<L> <V> <L> >L> >V> >L>
VERY LOOSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS CONCRETE FRAGMENTS, DAMP (FILL)	680.6	3	2	1	4	100	SS-3	-	13	23	48	9	7	NP	NP	NP	10	A-3a (0)	<L> <V> <L> >L> >V> >L>
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	679.1	4	4	2															<L> <V> <L> >L> >V> >L>
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE CLAY, TRACE SILT, TRACE GRAVEL, WET	677.6	5	5	5	13	72	SS-4	-	-	-	-	-	-	-	-	-	9	A-3a (V)	<L> <V> <L> >L> >V> >L>
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	676.1	6	4	4	12	100	SS-5	-	1	4	90	2	3	NP	NP	NP	14	A-3 (0)	<L> <V> <L> >L> >V> >L>
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE CLAY, TRACE SILT, TRACE GRAVEL, WET	676.1	7	4	4	12	100	SS-5	-	1	4	90	2	3	NP	NP	NP	14	A-3 (0)	<L> <V> <L> >L> >V> >L>
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, MOIST	676.1	8	4	4	12	100	SS-6	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<L> <V> <L> >L> >V> >L>
		9	5																<L> <V> <L> >L> >V> >L>

EOB

NOTES: CPT BORING. GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 6.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 58+96, 86' RT.		START: 10/29/14		END: 10/29/14		PG 2 OF 2		B-042-0-14													
MATERIAL DESCRIPTION AND NOTES				ELEV. 658.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED						
											GR	CS	FS	SI	CL	LL	PL	PI									
LOOSE TO MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET (continued) @35.0'; SS-14 CONTAINS DECAYED ROOTS				658.1	31	3 5	13	100	SS-13	-	-	-	-	-	-	-	-	-	25	A-4b (V)							
					32																						
					33																						
					34																						
					35																						
					36																						
					37																						
					38																						
					39																						
					40																						
@45.0'; UNIT WEIGHT: 130.0 PCF @ 31.1% MC				634.8	41	2 3	13	100	SS-15	-	-	-	-	-	-	-	-	-	31	A-4b (V)							
					42																						
					43																						
					44																						
					45																						
					46							100	ST-16	-	0	0	2	86	12	25		21	4	31	A-4b (8)		
					47																						
					48																						
					49																						
					50																						
VERY DENSE, GRAYISH BROWN, COARSE AND FINE SAND, LITTLE TO SOME GRAVEL, TRACE SILT, TRACE CLAY, MOIST TO WET				626.6	51	3 5	14	100	SS-17	-	-	-	-	-	-	-	-	-	29	A-4b (V)							
					52																						
					53																						
					54																						
					55																						
					56																						
					57																						
					58																						
					59																						
					60																						
				61	13 25	29	70	100	SS-19	-	-	-	-	-	-	-	-	18	A-3a (V)								

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 24.3' DURING DRILLING, 25.7' UPON COMPLETION. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 2 BAGS BENTONITE PELLETS; PUMPED 2 BAGS CEMENT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>59+49, 51' RT.</u>	EXPLORATION ID <u>B-043-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.SHOPE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>4.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>696.8 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/3/14</u> END: <u>11/3/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.491395, -81.670168</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT 18.0", CONCRETE	696.8 696.3																	
MEDIUM DENSE TO VERY DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP (FILL)	694.8	1																
		2	9	28	100	SS-1	-	-	-	-	-	-	-	-	10	A-1-b (V)		
		3	9 12															
		4	9	60	100	SS-2	-	23	29	27	14	7	NP	NP	NP	10	A-1-b (0)	
		5	26 20															
		6	9	33	100	SS-3	-	-	-	-	-	-	-	-	9	A-1-b (V)		
		7	12 13															
VERY DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, LITTLE GRAVEL, TRACE CLAY, MOIST (FILL)	689.8	8																
		9	19	79	100	SS-4	-	16	22	32	22	8	NP	NP	NP	11	A-3a (0)	
		10	26 34															
		11	9	74	100	SS-5	-	-	-	-	-	-	-	-	11	A-3a (V)		
		12	21 35															
HARD, DARK BROWN, SANDY SILT , LITTLE CLAY, LITTLE GRAVEL, CONTAINS BRICK FRAGMENTS, DAMP (FILL)	684.8	13																
		14	14	75	100	SS-6	4.50	-	-	-	-	-	-	-	12	A-4a (V)		
		15	21 36															
@15.0'; SS-7 BECOMES BROWN AND GRAY		16	27	38	100	SS-7	4.50	11	18	33	23	15	23	15	8	11	A-4a (1)	
		17	16 13															
HARD, DARK BROWN AND BROWN, SILT AND CLAY , "AND" SAND, LITTLE GRAVEL, CONTAINS FEW BRICK FRAGMENTS, DAMP (FILL)	679.8 677.8	18																
		19	50/5"	-	100	SS-8	4.50	13	16	22	26	23	31	17	14	15	A-6a (4)	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP	674.8	20																
		21	7	14	100	SS-9	-	-	-	-	-	-	-	-	8	A-1-b (V)		
		22	6 5															
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET		23																
		24	4	16	100	SS-10	-	-	-	-	-	-	-	-	4	A-3a (V)		
		25	5 7															
		26	4	14	100	SS-11	-	3	3	83	6	5	NP	NP	NP	6	A-3a (0)	
		27	4 7															
		28	5	14	100	SS-12	-	-	-	-	-	-	-	-	5	A-3a (V)		
		29	5 6															

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 59+49, 51' RT.		START: 11/3/14		END: 11/3/14		PG 2 OF 2		B-043-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 666.8	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
											GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET <i>(continued)</i>			666.8	31	3	5	14	100	SS-13	-	-	-	-	-	-	-	-	5	A-3a (V)					
				32																				
				33																				
				34																				
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			658.5	35	4	5	16	100	SS-14	-	-	-	-	-	-	-	-	25	A-3a (V)					
				36																				
				37																				
				38																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	39	7	5	14	100	SS-15	-	1	0	52	37	10	NP	NP	NP	23	A-4a (2)				
				40																				
				41																				
				42																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	43	4	4	11	100	SS-16	-	-	-	-	-	-	-	-	24	A-4b (V)					
				44																				
				45																				
				46																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	47	4	4	13	100	SS-17	-	-	-	-	-	-	-	-	25	A-4b (V)					
				48																				
				49																				
				50																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	51	4	4	13	100	SS-18	-	1	0	10	68	21	28	22	6	28	A-4b (8)				
				52																				
				53																				
				54																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	55	4	4	13	100	SS-18	-	1	0	10	68	21	28	22	6	28	A-4b (8)				
				56																				
				57																				
				58																				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			653.5	59	3	5	16	100	SS-19	-	-	-	-	-	-	-	-	29	A-4b (V)					
				60																				
				61																				
				61																				

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 21.5' DURING DRILLING. CAVE DEPTH 22.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>61+00, 47' LT.</u>	EXPLORATION ID <u>B-044-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>694.5 (MSL)</u> EOB: <u>10.0 ft.</u>	
START: <u>12/3/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.491247, -81.670795</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI		
6.0", ASPHALT	694.5																
12.0", CONCRETE	694.0	1															
12.0", GRANULAR BASE	693.0	2															
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	692.0	3	7														
		4	7	24	100	SS-1	-	14	33	38	10	5	NP	NP	NP	7	A-3a (0)
	689.5	5															
DENSE, BROWN, GRAVEL WITH SAND AND SILT , TRACE CLAY, CONTAINS SILT AND CLAY SEAMS, DAMP (FILL)	689.5	6	7														
		7	11	33	100	SS-2	-	24	23	25	18	10	18	15	3	10	A-2-4 (0)
	686.7	8															
VERY DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	686.7	9	46														
		10	36	120	100	SS-3	-	-	-	-	-	-	-	-	-	10	A-3a (V)
	684.5	EOB	44														

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 60+68, 177' RT.		START: 12/22/14		END: 12/22/14		PG 2 OF 2		B-045-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 645.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE, GRAY, SILT, LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, (SILT INTERBEDDED WITH FINE SAND, SILT AND CLAY), WET (continued)			645.7	31	3	6	100	SS-12	-	-	-	-	-	-	-	-	-	28	A-4b (V)			
				32	2																	
				33																		
MEDIUM DENSE, GRAY, GRAVEL WITH SAND, LITTLE SILT, TRACE CLAY, DAMP TO MOIST			637.2	35	3	10	100	SS-13	-	-	-	-	-	-	-	-	-	29	A-4b (V)			
				36	5																	
				37																		
MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET			625.0	39																		
				40																		
				41		83	ST-14	-	25	40	19	13	3	NP	NP	NP	10	A-1-b (0)				
STIFF TO VERY STIFF, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			622.4	43																		
				44																		
				45	5	30	100	SS-15	-	-	-	-	-	-	-	-	10	A-1-b (V)				
MEDIUM DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET			617.2	46	10	13																
				47																		
				48																		
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			614.2	50	4	22	100	SS-16A	-	32	34	17	13	4	NP	NP	NP	12	A-1-b (0)			
				51	4	13																
				52																		
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			614.2	53																		
				54																		
				55	3	15	100	SS-17	2.00	-	-	-	-	-	-	-	21	A-4b (V)				
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			614.2	56	5	7																
				57																		
				58																		
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			614.2	59																		
				60	9	22	100	SS-18	1.00	0	0	2	63	35	31	19	12	25	A-6a (9)			
				61	9	8																

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING, 52.6' UPON COMPLETION. CAVE DEPTH 15.3'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 60+72, 87' RT.		START: 10/30/14		END: 10/30/14		PG 2 OF 2		B-046-0-14											
MATERIAL DESCRIPTION AND NOTES			ELEV. 663.2	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED				
											GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST <i>(continued)</i>			660.0	31	2	4	4	10	100	SS-13	-	-	-	-	-	-	-	-	15	A-3a (V)					
				32																					
LOOSE TO DENSE, GRAY, SILT , LITTLE TO SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET @45.0'; UNIT WEIGHT: 130.4 PCF @ 26.3% MC @45.7'; QU: 1008 PSF @ 6.5% STRAIN			658.2	33																					
				34																					
				35	5	7	7	18	100	SS-14	-	0	0	10	74	16	26	21	5	26		A-4b (8)			
				36																					
				37																					
				38																					
				39																					
				40	9	15	15	39	78	SS-15	-	-	-	-	-	-	-	-	-	-		24	A-4b (V)		
				41																					
				42																					
				43																					
				44																					
				45																					
				46								100	ST-16	-	0	0	20	65	15	22		18	4	26	A-4b (8)
				47																					
48																									
49																									
50	2	3	4	9	100	SS-17	-	-	-	-	-	-	-	-	-	-	30	A-4b (V)							
51																									
52																									
53																									
54																									
55	3	2	4	8	100	SS-18	-	0	0	7	71	22	28	22	6	32	A-4b (8)								
56																									
57																									
58																									
59																									
60																									
61	7	10	15	32	100	SS-19	-	-	-	-	-	-	-	-	-	-	13	A-3a (V)							
			631.7	EOB																					

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING, 32.0' UPON COMPLETION. CAVE DEPTH 32.9'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; POURED 1 BAG CEMENT; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>61+65, 179' RT.</u>	EXPLORATION ID <u>B-047-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>675.5 (MSL)</u> EOB: <u>9.0 ft.</u>	PAGE 1 OF 1
START: <u>12/10/14</u> END: <u>12/10/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491891, -81.670804</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
9.0", ASPHALT	675.5																	
10.0", CONCRETE	674.8	1																
2.0", GRANULAR BASE	673.9	2	4	10	100	SS-1	-	4	14	68	9	5	NP	NP	NP	6	A-3a (0)	
LOOSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (FILL)	673.7	3	4															
		4	3	6	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
@4.5'; SS-3 CHANGES TO BROWN AND BLACK		5	2	9	100	SS-3	-	6	11	68	10	5	NP	NP	NP	9	A-3a (0)	
	669.5	6	2	5														
LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		7	2	6	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		8	3															
	666.5	9	2	9	100	SS-5	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		EOB		5														

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.

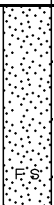

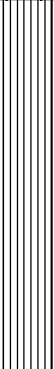

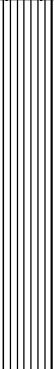
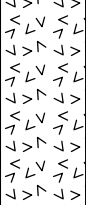
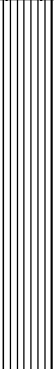

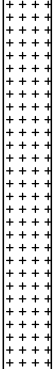

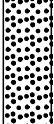

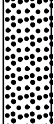

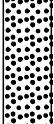

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>62+71, 60' RT.</u>	EXPLORATION ID <u>B-048-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>693.7 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/4/14</u> END: <u>11/5/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491654, -81.671291</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC				
7.0", ASPHALT	693.7																			
11.0", CONCRETE	692.2	1																		
LOOSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	691.5	2	3	8	89	SS-1A	-	-	-	-	-	-	-	-	-	10	A-3a (V)			
VERY STIFF TO HARD, GRAY, SILT AND CLAY , SOME SAND, TRACE GRAVEL, DAMP TO MOIST (FILL)		3	2	4		SS-1B	3.00	-	-	-	-	-	-	-	-	15	A-6a (V)			
		4	11	4	12	67	SS-2	2.50	3	5	18	42	32	28	15	13	14	A-6a (9)		
		5	4	5	13	83	SS-3	4.50	-	-	-	-	-	-	-	-	-	12	A-6a (V)	
		6	4	5	13	83	SS-3	4.50	-	-	-	-	-	-	-	-	-	12	A-6a (V)	
		7																		
@7.5'; SS-4 CHANGES TO GRAYISH BROWN, CONTAINS CONCRETE	684.2	8	36	19	52	100	SS-4	4.50	-	-	-	-	-	-	-	-	18	A-6a (V)		
		9	19	21																
DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, SS-5 CONTAINS PORCELAIN FRAGMENTS, DAMP (FILL)	679.2	10	8	17	45	100	SS-5	-	-	-	-	-	-	-	-	6	A-3a (V)			
		11	14	18	48	100	SS-6	-	6	13	53	19	9	NP	NP	NP	9	A-3a (0)		
		12																		
		13	14	18	48	100	SS-6	-	6	13	53	19	9	NP	NP	NP	9	A-3a (0)		
		14																		
VERY DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, SS-7 CONTAINS BRICK FRAGMENTS, DAMP (FILL)	674.2	15	20	27	67	100	SS-7	-	-	-	-	-	-	-	-	12	A-1-b (V)			
		16	20	27	67	100	SS-7	-	-	-	-	-	-	-	-	12	A-1-b (V)			
		17																		
@17.5'; SS-8 CHANGES TO MEDIUM DENSE, BROWN AND DARK GRAY	674.2	18	17	12	30	83	SS-8	-	19	33	29	11	8	NP	NP	NP	9	A-1-b (0)		
		19	17	12	30	83	SS-8	-	19	33	29	11	8	NP	NP	NP	9	A-1-b (0)		
		20																		
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP		20	6	5	13	100	SS-9	-	-	-	-	-	-	-	-	4	A-3 (V)			
		21	6	5	13	100	SS-9	-	-	-	-	-	-	-	-	4	A-3 (V)			
		22																		
		23	3	4	12	100	SS-10	-	-	-	-	-	-	-	-	5	A-3 (V)			
		24	3	4	12	100	SS-10	-	-	-	-	-	-	-	-	5	A-3 (V)			
		25																		
		26	3	4	10	100	SS-11	-	-	-	-	-	-	-	-	4	A-3 (V)			
		27	3	4	10	100	SS-11	-	-	-	-	-	-	-	-	4	A-3 (V)			
		28	5	4	12	100	SS-12	-	0	8	84	5	3	NP	NP	NP	5	A-3 (0)		
		29	5	4	12	100	SS-12	-	0	8	84	5	3	NP	NP	NP	5	A-3 (0)		

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 62+71, 60' RT.		START: 11/4/14		END: 11/5/14		PG 2 OF 2		B-048-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 663.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (continued) @35.0'; SS-14 BECOMES DARK BROWN, WET				31	3	6	19	100	SS-13	-	-	-	-	-	-	-	-	5	A-3 (V)					
				32																				
				33																				
				34																				
@44.3'; UNIT WEIGHT: 124.1 PCF @ 24.7% MC				35	4	6	15	56	SS-14	-	-	-	-	-	-	-	-	22	A-3 (V)					
				36																				
				37																				
				38																				
LOOSE TO MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, (SAND INTERBEDDED WITH SILT AND CLAY), WET				39																				
				40	2	4	9	78	SS-15	-	-	-	-	-	-	-	-	-	26		A-4a (V)			
				41																				
				42																				
@44.3'; UNIT WEIGHT: 124.1 PCF @ 24.7% MC				43				100	ST-16	-	0	1	50	39	10	NP	NP	NP	25	A-4a (3)				
				44																				
				45	3	9	18	100	SS-17	-	-	-	-	-	-	-	-	-	-	26		A-4a (V)		
				46																				
LOOSE, GRAY, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, WET				47																				
				48																				
				49																				
				50	2	3	8	100	SS-18	-	-	-	-	-	-	-	-	-	-		26	A-4b (V)		
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP				51																				
				52																				
				53																				
				54																				
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP				55	3	3	8	100	SS-19	-	3	13	15	51	18	28	20	8	30	A-4b (7)				
				56																				
				57																				
				58																				
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP				59																				
				60																				
				61	5	11	40	100	SS-20	-	-	-	-	-	-	-	-	-	-	10		A-3a (V)		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 36.3' DURING DRILLING. CAVE DEPTH 29.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>65+22, 218' LT.</u>	EXPLORATION ID <u>B-050-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.3 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>1/27/15</u> END: <u>1/27/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491101, -81.672445</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	677.8																		
12.0", CONCRETE	676.8	1																	
6.0", GRANULAR BASE	676.3	2																	
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		3	4	7	19	100	SS-1	-	15	13	59	7	6	NP	NP	NP	5	A-3a (0)	
		4	6	5	13	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
		5	2	3	8	100	SS-3	-	12	9	68	6	5	NP	NP	NP	6	A-3a (0)	
		6	3	3	8	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
		7	3	3	8	100													
	670.3	8																	
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 65+15, 9' LT. START: 12/10/14 END: 12/11/14 PG 4 OF 4 B-051-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 598.9	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued) @105.0'; SS-27 (SILT INTERBEDDED WITH "SILT AND CLAY")		95	7															
		96	8 15	35	100	SS-25	4.50	0	0	0	74	26	27	20	7	20	A-4b (8)	
		97																
		98																
		99																
		100																
		101		20 14 17	47	100	SS-26	4.50	-	-	-	-	-	-	-	-	20	A-4b (V)
		102																
		103																
		104																
		105		19 15 16	47	100	SS-27	3.00	-	-	-	-	-	-	-	-	24	A-4b (V)
		106																
	107																	
	108																	
	109																	
	110		8 10 14	36	100	SS-28	3.00	-	-	-	-	-	-	-	-	23	A-4b (V)	
	111																	
	581.7	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 39.5' DURING DRILLING. CAVE DEPTH 40.1'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>66+11, 207' RT.</u>	EXPLORATION ID <u>B-052-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>675.7 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/9/14</u> END: <u>12/9/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492292, -81.672346</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
8.0", ASPHALT	675.7																	
12.0", CONCRETE	675.0	1																
6.0", GRANULAR BASE	674.0	2																
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS ASPHALT FRAGMENTS, DAMP (FILL)	673.5	3	5	4	9	100	SS-1	-	14	47	26	8	5	NP	NP	NP	8	A-1-b (0)
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	672.2	4	5	3	5	100	SS-2	-	13	17	63	6	1	NP	NP	NP	6	A-3 (0)
LOOSE, BROWN AND BLACK, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS ASPHALT FRAGMENTS, DAMP (FILL)	670.7	5	8	5	10	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-1-b (V)
LOOSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	669.2	6	4	3	8	100	SS-4	-	-	-	-	-	-	-	-	-	8	A-3a (V)
	667.7	7																
		8																
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 66+75, 83' LT.		START: 12/1/14		END: 12/2/14		PG 2 OF 3		B-053-0-14											
MATERIAL DESCRIPTION AND NOTES			ELEV. 645.0	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
											GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE, GRAY, SILT, SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET (continued)			645.0	31	6	7	20	100	SS-13	-	1	0	21	67	11	23	19	4	26	A-4b (8)					
				32																					
				33																					
				34																					
				35	6	8	26	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		24	A-4b (V)		
				36																					
MEDIUM DENSE, GRAY, COARSE AND FINE SAND, SOME GRAVEL, TRACE SILT, TRACE CLAY, MOIST			636.7	37																					
				38																					
DENSE TO VERY DENSE, GRAY, SILT, SOME SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, WET			631.7	39																					
				40	5	8	26	100	SS-15	-	-	-	-	-	-	-	-	-	-	11		A-3a (V)			
				41																					
				42																					
				43																					
				44																					
@56.4'; UNIT WEIGHT: 134.0 PCF @ 20.5% MC			631.7	45	12	15	49	100	SS-16	-	0	1	26	63	10	NP	NP	NP	20	A-4b (8)					
				46																					
				47																					
				48																					
				49																					
				50	15	12	34	100	SS-17	-	-	-	-	-	-	-	-	-	-	-		20	A-4b (V)		
				51																					
				52																					
				53																					
				54																					
				55																					
				56							100	ST-18	-	0	1	22	62	15	NP	NP		NP	21	A-4b (8)	
57																									
58																									
59																									
60																									
61	8	11	34	100	SS-19	-	-	-	-	-	-	-	-	-	-	-	19	A-4b (V)							

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 66+75, 83' LT.		START: 12/1/14		END: 12/2/14		PG 3 OF 3		B-053-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV. 612.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
DENSE TO VERY DENSE, GRAY, SILT, SOME SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, WET (continued)			+++++	63															<>	
				64																<>
@65.0'; SS-20 TO SS-22 BECOME DAMP TO MOIST			+++++	65	13														<>	
				66	19 27	60	100	SS-20	-	-	-	-	-	-	-	-	18	A-4b (V)	<>	
ST-21 TO SS-22 BECOME HARD, SOME CLAY, TRACE SAND ST-21 to SS-22 BECOME SOME CLAY, TRACE SAND @70.7'; UNIT WEIGHT: 132.5 PCF @ 14.3%			+++++	67															<>	
				68																<>
			+++++	69															<>	
				70																<>
			+++++	71			100	ST-21	4.50	0	0	2	68	30	26	18	8	14	A-4b (8)	<>
				72																
			+++++	73															<>	
				74																
			+++++	75	10														<>	
				76	23 35	76	100	SS-22	4.50	-	-	-	-	-	-	-	18	A-4b (V)	<>	
			598.5	EOB															<>	

NOTES: GROUNDWATER ENCOUNTERED AT 20.0' DURING DRILLING. HOLE DID NOT CAVE.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 66+85, 50' RT. START: 11/4/14 END: 11/5/14 PG 4 OF 4 B-054-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 599.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO VERY DENSE, GRAYISH BROWN, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO WET <i>(continued)</i> @95.0'; SS-26 BECOMES HARD, CONTAINS NO INTACT SOIL FOR HP READINGS @105.0'; SS-28 BECOMES GRAYISH BROWN @110.0'; SS-29 BECOMES GRAY, SOME SAND		95	9															
		96	13 18	41	100	SS-26	-	0	1	0	71	28	26	19	7	17	A-4b (8)	
		97																
		98																
		99																
		100		9														
		101		13 17	39	100	SS-27	-	-	-	-	-	-	-	-	21	A-4b (V)	
		102																
		103																
		104																
		105		16														
	106		18 24	55	100	SS-28	-	0	0	5	74	21	NP	NP	NP	21	A-4b (8)	
	107																	
	108																	
	109																	
	110		9															
	111		12 18	39	100	SS-29	-	-	-	-	-	-	-	-	17	A-4b (V)		

581.9 EOB

NOTES: GROUNDWATER ENCOUNTERED AT 41.5' DURING DRILLING, 24.5' UPON COMPLETION. CAVE DEPTH 44.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 67+04, 183' LT.	START: 11/20/14	END: 11/20/14	PG 2 OF 2	B-055-0-14													
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
		649.2								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN AND GRAY, FINE SAND, TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET (continued)		F.S. 647.7	EOB 31	5 6 11	22	100	SS-13	-	-	-	-	-	-	-	-	-	-	24	A-3 (V)	< > < >
																				< > < >

NOTES: GROUNDWATER ENCOUNTERED AT 27.2' DURING DRILLING. CAVE DEPTH 25.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 69+71, 52' LT.	START: 2/10/15	END: 2/13/15	PG 4 OF 4	B-056-0-14												
MATERIAL DESCRIPTION AND NOTES		ELEV. 600.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
									GR	CS	FS	SI	CL	LL	PL	PI			
HARD, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued) @95.0'; ST-26 NO RECOVERY, LOST TUBE IN HOLE		597.8	95	█														< > < >	
			96	█		0	ST-26	-	-	-	-	-	-	-	-	-	-	-	< > < >
			97	EOB														< > < >	

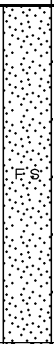



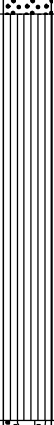



NOTES: GROUNDWATER ENCOUNTERED AT 45.0' DURING DRILLING, DRY AFTER DRILLING. CAVE DEPTH 34.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>68+78, 51' RT.</u>	EXPLORATION ID <u>B-057-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / Z.JEWELL</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>694.5 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/4/14</u> END: <u>11/6/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.492071, -81.673435</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
6.0", ASPHALT 18.0", CONCRETE	694.5 694.0	1																
VERY STIFF, GRAY AND BROWN, SILT AND CLAY , LITTLE TO SOME SAND, TRACE GRAVEL, DAMP (FILL)	692.5	2																
		3	4	2	9	100	SS-1	3.10	-	-	-	-	-	-	-	19	A-6a (V)	
		4		4														
@5.0'; SS-2 BECOMES BROWN AND DARK GRAY		5	7	7	23	100	SS-2	3.60	0	6	19	42	33	31	19	12	17	A-6a (9)
		6		8														
VERY DENSE, GRAY AND BROWN, GRAVEL WITH SAND AND SILT , LITTLE CLAY, GRAVEL IS CONCRETE FRAGMENTS, DAMP (FILL)	687.2	7																
		8	24	37	105	100	SS-3	-	28	12	25	21	14	24	16	8	8	A-2-4 (0)
		9		33														
@10.0'; SS-4 BECOMES DARK BROWN AND GRAY		10	26	50/5"	-	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-2-4 (V)
		11																
DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)	682.5	12																
		13	12	15	47	100	SS-5	-	-	-	-	-	-	-	-	-	8	A-3a (V)
		14		16														
@15.0'; SS-15 BECOMES DARK BROWN		15	16	30	87	100	SS-6	-	4	10	58	19	9	NP	NP	NP	8	A-3a (0)
		16		28														
MEDIUM DENSE, BROWN AND DARK GRAY, GRAVEL WITH SAND AND SILT , TRACE CLAY, DAMP (FILL)	677.5	17																
		18	12	8	27	100	SS-7	-	27	18	32	16	7	NP	NP	NP	10	A-2-4 (0)
		19		10														
		20	4	4	12	100	SS-8	-	-	-	-	-	-	-	-	-	8	A-2-4 (V)
		21		4														
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	672.5	22																
		23	3	3	9	100	SS-9	-	-	-	-	-	-	-	-	-	5	A-3 (V)
		24		3														
		25	3	3	12	100	SS-10	-	-	-	-	-	-	-	-	-	5	A-3 (V)
		26		5														
		27																
		28	3	3	11	100	SS-11	-	10	16	66	6	2	NP	NP	NP	5	A-3 (0)
		29		4														

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 68+78, 51' RT.		START: 11/4/14		END: 11/6/14		PG 2 OF 2		B-057-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 664.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (continued)				664.5	31	2 3 4	11	100	SS-12	-	-	-	-	-	-	-	-	4	A-3 (V)				
					32																		
					33																		
					34																		
					35	2																	
MEDIUM DENSE TO DENSE, DARK BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET				656.2	36	2 3	8	100	SS-13	-	-	-	-	-	-	-	-	5	A-3 (V)				
					37																		
					38																		
					39																		
					40	3																	
MEDIUM DENSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET				646.2	41	3 7	15	100	SS-14	-	-	-	-	-	-	-	-	22	A-3a (V)				
					42																		
					43																		
					44																		
					45	5																	
MEDIUM DENSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST				636.2	46	11 11	33	100	SS-15	-	-	-	-	-	-	-	-	23	A-3a (V)				
					47																		
					48																		
					49																		
					50	5																	
DENSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST				633.0	51	7 7	21	100	SS-16	-	0	0	41	44	15	NP	NP	NP	23	A-4a (5)			
					52																		
					53																		
					54																		
					55	6																	
DENSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST				633.0	56	7 8	23	100	SS-17	-	-	-	-	-	-	-	-	20	A-4a (V)				
					57																		
					58																		
					59																		
					60	17																	
DENSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST				633.0	61	14 15	44	100	SS-18	-	-	-	-	-	-	-	-	10	A-1-b (V)				
					61																		
EOB																							
NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 22.5'.																							
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SOIL MIXED WITH 1 BAG CEMENT																							

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 69+50, 173' LT.		START: 12/30/14		END: 12/30/14		PG 2 OF 2		B-058-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV. 650.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN AND ORANGISH BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET (continued) @30.0'; SS-12 CONTAINS A 2.0" SEAM OF SILT AND CLAY, IRON STAINING			647.3	31	4 5	17	100	SS-12	-	-	-	-	-	-	-	-	-	24	A-3a (V)	▽
				32	8															
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	33																▽
				34																
DENSE, GRAYISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP			632.3	35	3 6	14	100	SS-13	-	0	1	36	51	12	NP	NP	NP	26	A-4b (6)	▽
				36	5															
VERY DENSE, GRAYISH BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, MOIST			627.3	37																▽
				38																
STIFF, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			618.6	39																▽
				40																
@61.2'; UNIT WEIGHT: 132.8 PCF @ 22.8% MC			618.6	41	3 4	14	100	SS-14	-	-	-	-	-	-	-	-	-	29	A-4b (V)	▽
				42	7															
DENSE, GRAYISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP			632.3	43																▽
				44																
VERY DENSE, GRAYISH BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, MOIST			632.3	45	1 12	32	100	SS-15	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	▽
				46	13															
STIFF, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			627.3	47																▽
				48																
MEDIUM DENSE, BROWN AND ORANGISH BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET (continued) @30.0'; SS-12 CONTAINS A 2.0" SEAM OF SILT AND CLAY, IRON STAINING			647.3	49																▽
				50																
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	51	18 20	53	100	SS-16	-	-	-	-	-	-	-	-	-	19	A-4a (V)	▽
				52	21															
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	53																▽
				54																
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	55	5 6	23	100	SS-17	1.50	-	-	-	-	-	-	-	-	19	A-4b (V)	▽
				56	12															
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	57																▽
				58																
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	59																▽
				60																
MEDIUM DENSE, GRAY MOTTLED WITH BROWN, SILT , "AND" SAND, LITTLE CLAY, TRACE GRAVEL, WET			637.3	61			100	ST-18	1.50	0	0	1	76	23	28	21	7	23	A-4b (8)	▽
				62																

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING, 31.7' UPON COMPLETION. CAVE DEPTH 14.4'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:12 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>68+91, 202' RT.</u>	EXPLORATION ID <u>B-059-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-77</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>675.8 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/10/14</u> END: <u>12/10/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492483, -81.673336</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
8.0", ASPHALT	675.8																	
10.0", CONCRETE	675.1	1																
6.0", GRANULAR BASE	674.3	2	8															
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	673.8	3	4	10	100	SS-1	-	19	37	31	8	5	NP	NP	NP	6	A-1-b (0)	
LOOSE, BROWN, FINE SAND , LITTLE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	672.8	4	4	8	100	SS-2	-	2	11	83	2	2	NP	NP	NP	5	A-3 (0)	
		5	3	6	100	SS-3	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
		6	3	2														
	668.3	7	2	6	100	SS-4	-	-	-	-	-	-	-	-	-	4	A-3 (V)	
		8	3	3														
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS CINDERS AND CONCRETE FRAGMENTS, DAMP (FILL)	666.8	9	3	6	56	SS-5	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
		EOB	2															

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:12 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 69+83, 48' RT.		START: 11/5/14		END: 11/6/14		PG 2 OF 2		B-060-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 664.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
										GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, LIGHT BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP				31	4	13	100	SS-13	-	2	0	93	4	1	NP	NP	NP	4	A-3 (0)		
					5																5
				32																	
				33																	
				34																	
				35	2	5	94	SS-14	-	-	-	-	-	-	-	-	-	5	A-3 (V)		
					2																2
				36																	
				37																	
@40.0'; SS-15 BECOMES GRAYISH BROWN, WET				38																	
				39																	
@40.0'; SS-15 BECOMES GRAYISH BROWN, WET				40	4	8	100	SS-15	-	1	4	91	-	4	-	NP	NP	NP	24	A-3 (0)	
					3																
				41																	
				42																	
				43																	
				44																	
@45.0'; SS-16 BECOMES BROWN WITH ORANGISH BROWN, CONTAINS IRON STAINING				45	4	18	100	SS-16	-	-	-	-	-	-	-	-	-	25	A-3 (V)		
					5																9
				46																	
				47																	
				48																	
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, SS-17 CONTAINS IRON STAINING, WET			646.3	49																	
				50	2	14	100	SS-17	-	-	-	-	-	-	-	-	-	23	A-3a (V)		
					4																7
				51																	
				52																	
@53.0'; UNIT WEIGHT: 127.8 PCF @ 22.5% MC				53																	
				54				117	ST-18	-	0	0	77	20	3	NP	NP	NP	23	A-3a (0)	
				55	3	15	100	SS-19	-	-	-	-	-	-	-	-	-	-	23	A-3a (V)	
					5																
				56																	
				57																	
				58																	
				59																	
@60.0'; SS-20 BECOMES DENSE, GRAYISH BROWN, DAMP				60	9	41	100	SS-20	-	-	-	-	-	-	-	-	-	9	A-3a (V)		
					16																16
			633.3	61																	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 40.3' DURING DRILLING, 47.3' UPON COMPLETION. CAVE DEPTH 38.7'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 400+40, 118' LT.		START: 12/31/14		END: 12/31/14		PG 2 OF 2		B-061-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 650.1	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
											GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET <i>(continued)</i>			648.8	31	3	8	21	100	SS-12A	-	-	-	-	-	-	-	-	-	20	A-3a (V)	<V>
MEDIUM DENSE, BROWN BECOMING GRAYISH BROWN, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, WET				32					SS-12B	-	-	-	-	-	-	-	-	34	A-4a (V)	<V>	
				33																<V>	
				34																<V>	
				35	2															<V>	
				36	5	4	12	100	SS-13	-	14	1	25	48	12	NP	NP	NP	27	A-4a (5)	<V>
				37																<V>	
				38																<V>	
				39																<V>	
				40	3															<V>	
				41	3	6	12	100	SS-14	-	-	-	-	-	-	-	-	28	A-4a (V)	<V>	
				42																<V>	
			636.8	43																<V>	
DENSE, GRAYISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST				44																<V>	
				45	4															<V>	
				46	12	20	41	100	SS-15	-	-	-	-	-	-	-	-	13	A-1-b (V)	<V>	
				47																<V>	
			631.8	48																<V>	
MEDIUM DENSE, GRAYISH BROWN, SILT , TRACE CLAY, TRACE SAND, TRACE GRAVEL, WET				49																<V>	
				50	3															<V>	
				51	7	12	25	100	SS-16	-	-	-	-	-	-	-	-	25	A-4b (V)	<V>	
				52																<V>	
				53																<V>	
				54																<V>	
				55																<V>	
				56				100	ST-17	-	0	0	5	87	8	NP	NP	NP	21	A-4b (8)	<V>
@56.6'; UNIT WEIGHT: 135.6 PCF @ 21.4% MC				57																<V>	
				58																<V>	
				59																<V>	
				60																<V>	
@60.0'; SS-18 CONTAINS DECAYED VEGETATION				61	4	5	15	100	SS-18	-	-	-	-	-	-	-	-	30	A-4b (V)	<V>	
			618.6	61																<V>	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING, 29.7' UPON COMPLETION. CAVE DEPTH 11.3'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 400+83, 91' LT.		START: 1/14/15		END: 1/14/15		PG 2 OF 2		B-062-0-14							
MATERIAL DESCRIPTION AND NOTES				ELEV. 649.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
											GR	CS	FS	SI	CL	LL	PL	PI			
LOOSE TO MEDIUM DENSE, LIGHT BROWN, GRAYISH BROWN AND BLACK, COARSE AND FINE SAND , LITTLE SILT, LITTLE CLAY, TRACE GRAVEL, DAMP TO WET <i>(continued)</i> @30.0'; SS-12 CONTAINS "SILT AND CLAY" LENSES				646.0	31	3 6 8	18	100	SS-12	-	-	-	-	-	-	-	-	-	25	A-3a (V)	
					32																
LOOSE TO MEDIUM DENSE, GRAYISH BROWN, SANDY SILT , TRACE TO LITTLE CLAY, TRACE GRAVEL, WET				630.8	33																
					34																
@46.3'; UNIT WEIGHT: 132.1 PCF @ 19.9% MC				630.8	35	8 6 8	18	100	SS-13	-	1	4	49	35	11	NP	NP	NP	22	A-4a (2)	
					36																
				630.8	37																
					38																
				630.8	39																
					40																
				630.8	41	3 2 3	7	100	SS-14	-	-	-	-	-	-	-	-	-	33	A-4a (V)	
					42																
				630.8	43																
					44																
				630.8	45																
					46			88	ST-15	-	0	1	47	42	10	NP	NP	NP	20	A-4a (3)	
				630.8	47																
					48																
STIFF TO HARD, GRAYISH BROWN, SILT , SOME CLAY, LITTLE SAND, CONTAINS NO INTACT SOIL FOR HP READINGS, WET TO MOIST				617.8	49																
					50																
				617.8	51	10 12 18	39	100	SS-16	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
					52																
				617.8	53																
					54																
				617.8	55	4 6 4	13	100	SS-17	-	0	1	14	64	21	24	18	6	21	A-4b (8)	
					56																
				617.8	57																
					58																
				617.8	59																
					60																
				617.8	61	4 10 11	28	100	SS-18	-	-	-	-	-	-	-	-	-	20	A-4b (V)	
					61																

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING. CAVE DEPTH 25.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:12 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>1070+82, 7' RT.</u>	EXPLORATION ID <u>B-063-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / Z.JEWELL</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP H5 INTERIM</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>695.3 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>11/11/14</u> END: <u>11/13/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.492217, -81.674156</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI	WC		
6.0", ASPHALT	694.8	1																
12.0", CONCRETE	693.8	2																
6.0", GRANULAR BASE	693.3	3																
VERY STIFF, BROWN AND GRAY, SILTY CLAY , LITTLE SAND, TRACE GRAVEL, CONTAINS FEW BRICK FRAGMENTS, DAMP (FILL)	690.8	3	3	5	18	100	SS-1	3.50	9	6	14	38	33	39	19	20	17	A-6b (11)
HARD, DARK GRAY AND BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	688.3	5	5	7	23	100	SS-2	4.50	9	9	35	31	16	26	18	8	15	A-4a (2)
VERY DENSE, BROWN, GRAVEL WITH SAND AND SILT , TRACE CLAY, CONTAINS BRICK AND CONCRETE FRAGMENTS, DAMP (FILL)	688.3	8	36	20	56	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-2-4 (V)
		10	50/1"	-	-	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-2-4 (V)
		13	16	49	-	100	SS-5	-	32	14	26	19	9	22	18	4	9	A-2-4 (0)
VERY DENSE, DARK BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, SOME SILT, TRACE CLAY, MOIST (FILL)	681.0	14	50/1"	-	-	100	SS-6	-	-	-	-	-	-	-	-	-	11	A-3a (V)
MEDIUM DENSE, DARK BROWN AND REDDISH BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS BRICK AND GLASS FRAGMENTS, WET (FILL)	678.8	18	5	6	18	94	SS-7	-	29	24	28	14	5	NP	NP	NP	14	A-1-b (0)
MEDIUM DENSE, BROWN AND BLACK, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, WET (FILL)	675.8	20	5	7	20	89	SS-8	-	22	19	36	15	8	NP	NP	NP	14	A-3a (0)
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DRY	673.3	23	3	4	14	94	SS-9	-	-	-	-	-	-	-	-	-	5	A-3a (V)
		25	3	3	11	100	SS-10	-	-	-	-	-	-	-	-	-	4	A-3a (V)
		28	2	4	11	78	SS-11	-	-	-	-	-	-	-	-	-	6	A-3a (V)

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:12 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1070+82, 7' RT.		START: 11/11/14		END: 11/13/14		PG 2 OF 2		B-063-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 665.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DRY (<i>continued</i>)				31	3	7	21	100	SS-12	-	-	-	-	-	-	-	-	5	A-3a (V)					
				32																				
				33																				
				34																				
@40.0'; SS-14 TO SS-16 BECOME MOIST TO WET				35	4	9	32	100	SS-13	-	7	35	47	8	3	NP	NP	NP	5	A-3a (0)				
				36																				
				37																				
				38																				
@50.0'; SS-16 BECOMES GRAYISH BROWN				39																				
				40	4	5	15	100	SS-14	-	-	-	-	-	-	-	-	-	10	A-3a (V)				
				41																				
				42																				
DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET TO MOIST			642.0	43																				
				44																				
				45	3	4	14	100	SS-15	-	-	-	-	-	-	-	-	-	-	22		A-3a (V)		
				46																				
			642.0	47																				
				48																				
				49																				
				50	6	11	33	100	SS-16	-	-	-	-	-	-	-	-	-	-	15		A-3a (V)		
			642.0	51																				
				52																				
				53																				
				54	8	11	35	100	SS-17	-	3	11	46	31	9	NP	NP	NP	19	A-4a (1)				
			633.8	55																				
				56																				
				57																				
				58																				
			633.8	59																				
				60	8	11	38	100	SS-18	-	-	-	-	-	-	-	-	-	14	A-4a (V)				
				61																				

NOTES: GROUNDWATER ENCOUNTERED AT 38.0' DURING DRILLING. CAVE DEPTH 45.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:12 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1073+09, 6' RT.		START: 11/6/14		END: 11/6/14		PG 2 OF 2		B-064-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 666.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, LIGHT BROWN AND DARK GRAYISH BROWN, FINE SAND , LITTLE TO SOME COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO DRY (continued)				31	4	15	100	SS-13	-	9	28	57	4	2	NP	NP	NP	5	A-3 (0)	↖ ↗		
					6																↖ ↗	
					6																	↖ ↗
					6																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			652.7	35	4	22	100	SS-14	-	-	-	-	-	-	-	-	-	4	A-3 (V)	↖ ↗		
					8																↖ ↗	
					9																	↖ ↗
					9																	
DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET			647.7	40	6	25	100	SS-15	-	-	-	-	-	-	-	-	-	6	A-3 (V)	↖ ↗		
					7																↖ ↗	
					12																	↖ ↗
					12																	
DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET			637.7	45	2	12	100	SS-16	-	-	-	-	-	-	-	-	-	14	A-3a (V)	↖ ↗		
					4																↖ ↗	
					5																	↖ ↗
					5																	
DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET			634.5	50	5	34	100	SS-17	-	4	8	83	4	1	NP	NP	NP	21	A-3 (0)	↖ ↗		
					8																↖ ↗	
					18																	↖ ↗
					18																	
			EOB	55	5	35	100	SS-18	-	-	-	-	-	-	-	-	-	22	A-3 (V)	↖ ↗		
					10																↖ ↗	
					17																	↖ ↗
					17																	
				60	9	43	100	SS-19	-	-	-	-	-	-	-	-	-	16	A-3a (V)	↖ ↗		
					15																↖ ↗	
					18																	↖ ↗
					18																	

NOTES: GROUNDWATER ENCOUNTERED AT 42.0' DURING DRILLING, 49.8' UPON COMPLETION. CAVE DEPTH 37.1'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>973+32, 29' LT.</u>	EXPLORATION ID <u>B-066-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP H5</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>696.4 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/15/14</u> END: <u>12/15/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.492293, -81.675076</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	696.4																		
12.0", CONCRETE	695.9	1																	
6.0", GRANULAR BASE	694.9	2																	
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME SILT, LITTLE GRAVEL, TRACE CLAY, SS-1 CONTAINS BRICK FRAGMENTS, DAMP (FILL)	694.4	3	9	15	48	100	SS-1	-	18	12	40	21	9	NP	NP	NP	10	A-3a (0)	
		4		15															
@5.0'; SS-2 TO SS-3 CHANGES TO BROWN, LITTLE SILT, TRACE GRAVEL		5	14	15	47	100	SS-2	-	5	16	57	14	8	NP	NP	NP	9	A-3a (0)	
		6		15															
		7																	
@7.5'; SS-3 CHANGES TO BROWN AND DARK GRAY, CONTAINS FEW BRICK FRAGMENTS		8	14	14	42	100	SS-3	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
	687.4	9		14															
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>403+25, 2' RT.</u>	EXPLORATION ID <u>B-068-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>696.5 (MSL)</u> EOB: <u>111.5 ft.</u>	PAGE 1 OF 4
START: <u>12/17/14</u> END: <u>12/22/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.492136, -81.675104</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", ASPHALT	696.5																	
8.0", CONCRETE	696.2 695.5																	
12.0", GRANULAR BASE	694.5																	
DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	692.0	1	9	30	100	SS-1	-	5	12	44	26	13	NP	NP	NP	10	A-4a (1)	
DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)		2																
		3	10	32	100	SS-2	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		4	4	41	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
@10.0'; SS-4 CHANGES TO GRAYISH BROWN, SOME SILT		5																
		6	12	50	100	SS-4	-	5	8	58	24	5	NP	NP	NP	8	A-3a (0)	
DENSE TO VERY DENSE, GRAYISH BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, SS-5 CONTAINS BRICK FRAGMENTS, DAMP (FILL)	684.5	7	7	41	100	SS-5	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
		8																
		9	14	54	100	SS-6	-	1	10	49	29	11	NP	NP	NP	10	A-4a (1)	
@17.5'; SS-7 CHANGES TO SOME GRAVEL, CONTAINS CONCRETE FRAGMENTS		10																
		11	50/5"	-	100	SS-7	-	-	-	-	-	-	-	-	-	9	A-4a (V)	
MEDIUM DENSE, ORANGISH BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, MOIST	677.5	12																
		13	4	15	100	SS-8	-	22	30	25	17	6	NP	NP	NP	11	A-1-b (0)	
MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, DAMP	674.5	14																
		15	4	15	100	SS-9	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
		16																
		17	4	15	100	SS-10	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		18																
		19	6	12	100	SS-11	-	1	2	91	4	2	NP	NP	NP	6	A-3 (0)	
		20																
		21	4	4														
		22																
		23	6	4														
		24																
		25																
		26																
		27																
		28																
		29																
	667.0																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>14+64, 61' RT.</u>	EXPLORATION ID <u>B-070-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>676.8 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/10/14</u> END: <u>12/10/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492964, -81.675131</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
6.0", TOPSOIL	676.8																	
LOOSE, BROWN AND DARK GRAY, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE TO LITTLE SILT, TRACE CLAY, SS-1 CONTAINS CONCRETE, MOIST TO WET (FILL)	676.3	1	2														< >	
		2	4	8	100	SS-1	-	17	21	40	14	8	NP	NP	NP	12	A-3a (0)	< >
		3	5	5	100	SS-2	-	18	30	35	10	7	NP	NP	NP	15	A-3a (0)	< >
		4	3	6	67	SS-3	-	-	-	-	-	-	-	-	-	14	A-3a (V)	< >
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	671.8	5	3															
LOOSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	670.3	6	2	6	100	SS-4	-	1	16	78	3	2	NP	NP	NP	8	A-3 (0)	< >
	668.8	7	3	10	100	SS-5	-	-	-	-	-	-	-	-	-	8	A-3a (V)	< >
		8	4															

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>9+72, 26' LT.</u>	EXPLORATION ID: <u>B-071-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.2 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/23/15</u> END: <u>1/23/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.491724, -81.675914</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", TOPSOIL	678.2																	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND AND SILT , TRACE CLAY, CONTAINS MANY ROOTS, DAMP (FILL)	677.7	1	2	14	100	SS-1	-	29	20	26	17	8	NP	NP	NP	13	A-2-4 (0)	<L> <V> <L>
LOOSE TO MEDIUM DENSE, DARK BROWN TO BROWN AND BLACK, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST (FILL)	676.2	2	4	14	100	SS-2	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<L> <V> <L>
		3	6	14	100	SS-2	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<L> <V> <L>
		4	4	8	100	SS-3	-	5	16	60	13	6	NP	NP	NP	12	A-3a (0)	<L> <V> <L>
		5	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> <V> <L>
	671.7	6	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> <V> <L>
		7	4	9	100	SS-5	-	-	-	-	-	-	-	-	-	12	A-3 (V)	<L> <V> <L>
LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, MOIST	670.2	8	5	9	100	SS-5	-	-	-	-	-	-	-	-	-	12	A-3 (V)	<L> <V> <L>
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>16+30, 9' LT.</u>	EXPLORATION ID <u>B-072-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>676.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/29/14</u> END: <u>12/29/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.493452, -81.675216</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
5.0", ASPHALT	676.0																	
11.0", CONCRETE	675.6	1																
8.0", AGGREGATE BASE	674.7	2																
VERY LOOSE TO LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP @5.0'; SS-3 AND SS-4 BECOME SOME COARSE SAND	674.0	3	5	8	100	SS-1	-	5	5	82	4	4	NP	NP	NP	7	A-3 (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		4	2	5	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		5	1	3	100	SS-3	-	6	34	54	3	3	NP	NP	NP	7	A-3 (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		6	1	3	100	SS-3	-	6	34	54	3	3	NP	NP	NP	7	A-3 (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		7	2	6	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3 (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
	668.0	8	3															

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 1075+95, 1' RT. START: 11/10/14 END: 11/11/14 PG 4 OF 4 B-074-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 600.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
STIFF TO HARD, GRAYISH BROWN, SILT, LITTLE TO SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST <i>(continued)</i> @95.0'; SS-27 AND SS-28 BECOME, SOME SAND, LITTLE CLAY, TRACE GRAVEL, MOIST	+++++	95	8																
		96	12 20	42	100	SS-27	4.50	-	-	-	-	-	-	-	18	A-4b (V)	<V>		
		97																<V>	
		98																<V>	
		99																<V>	
		100																	<V>
		101	12 15 19	45	100	SS-28	3.25	-	-	-	-	-	-	-	19	A-4b (V)	<V>		
		102																	<V>
		103																	<V>
		104																	<V>
STIFF TO HARD, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	591.8	105	12 12 17	38	100	SS-29	4.50	-	-	-	-	-	-	22	A-6a (V)	<V>			
		106																<V>	
		107																<V>	
		108																<V>	
		109																<V>	
		110																	<V>
		111	5 8 12	26	100	SS-30	1.60	-	-	-	-	-	-	-	23	A-6a (V)	<V>		
583.6	EOB																		

NOTES: GROUNDWATER ENCOUNTERED AT 44.5' DURING DRILLING. CAVE DEPTH 44.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 176+44, 48' RT.	START: 12/8/14	END: 12/8/14	PG 2 OF 2	B-075-0-14													
MATERIAL DESCRIPTION AND NOTES		ELEV. 665.5	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP <i>(continued)</i>		664.0	-	31	3 4 5	12	100	SS-14	-	7	16	63	10	4	NP	NP	NP	7	A-3a (0)	< L < > L > < L < > L >


NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 24.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>179+55, 49' LT.</u>	EXPLORATION ID <u>B-076-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>699.6 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/16/14</u> END: <u>12/16/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.495287, -81.680237</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", PAVEMENT AND BASE	699.6																	
6.0", CONCRETE	699.3 698.8	1																X
14.0", GRANULAR BASE	697.6	2																X
MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, SS-1 CONTAINS FEW BRICK AND ASPHALT FRAGMENT, DAMP TO MOIST (FILL) @5.0'; SS-2 CHANGES TO DARK GRAY, SOME SILT, TRACE GRAVEL, CONTAINS PLASTIC, SLIGHTLY ORGANIC, WET		3	10 8 5	20	100	SS-1	-	32	17	33	13	5	NP	NP	NP	8	A-3a (0)	<L> >L> <L> >L> <L> >L> <L> >L>
@7.5'; SS-3 CHANGES TO GRAYISH BROWN, CONTAINS BRICK FRAGMENTS, MOIST		5	3 2 5	11	56	SS-2	-	10	21	37	22	10	NP	NP	NP	18	A-3a (0)	<L> >L> <L> >L> <L> >L> <L> >L>
		6																<L> >L> <L> >L> <L> >L> <L> >L>
		7																<L> >L> <L> >L> <L> >L> <L> >L>
		8	6 5 4	14	56	SS-3	-	-	-	-	-	-	-	-	-	12	A-3a (V)	<L> >L> <L> >L> <L> >L> <L> >L>
	690.6	9																<L> >L> <L> >L> <L> >L> <L> >L>
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 181+25, 32' RT.	START: 6/28/21	END: 6/29/21	PG 2 OF 2	B-076-1-20											
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
	665.1							GR	CS	FS	SI	CL	LL	PL	PI			
	663.6	31	7 9 11	23	44	SS-12	-	-	-	-	-	-	-	-	-	14	A-3a (V)	<L> >L> <L> >L>

EOB


NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / ASHBAUGH</u>	DRILL RIG: <u>CME 55T</u>	STATION / OFFSET: <u>183+89, 25' LT.</u>	EXPLORATION ID <u>B-076-2-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / ASHBAUGH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>701.4 (MSL)</u> EOB: <u>31.5 ft.</u>	PAGE 1 OF 2
START: <u>6/28/21</u> END: <u>6/29/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>68.4</u>	LAT / LONG: <u>41.495815, -81.678838</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
7.0" ASPHALT AND 7.0" CONCRETE (DRILLERS DESCRIPTION)	701.4																	X
700.2		1																X
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, CONTAINS TRACE BRICK FRAGMENTS, DAMP (FILL)		2																X
		3	4															X
		4	8 13	24	56	SS-1	-	-	-	-	-	-	-	-	7	A-3a (V)	X	
		5	8															X
		6	13 14	31	67	SS-2	-	-	-	-	-	-	-	-	10	A-3a (V)	X	
		7																X
		8	7															X
		9	11 15	30	61	SS-3	-	8	18	56	14	4	NP	NP	NP	9	A-3a (0)	X
	691.9	10	7															X
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS TRACE BRICK FRAGMENTS, MOIST (FILL)		11	7															X
		12	12 15	31	56	SS-4	-	-	-	-	-	-	-	-	11	A-1-b (V)	X	
		13	7															X
		14	11 12	26	61	SS-5	-	-	-	-	-	-	-	-	15	A-1-b (V)	X	
		15	7															X
		16	10 8	21	56	SS-6	-	21	35	24	15	5	NP	NP	NP	12	A-1-b (0)	X
	684.4	17																X
MEDIUM DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, LITTLE SILT, TRACE CLAY, CONTAINS BRICK AND GLASS FRAGMENTS, DAMP TO MOIST (FILL)		18	7															X
		19	9 11	23	50	SS-7	-	-	-	-	-	-	-	-	14	A-3a (V)	X	
		20																X
		21	10 22 23	51	61	SS-8	-	-	-	-	-	-	-	-	11	A-3a (V)	X	
		22																X
		23	10 10 12	25	56	SS-9	-	31	18	35	13	3	NP	NP	NP	8	A-3a (0)	X
		24																X
		25	9															X
		26	12 11	26	44	SS-10	-	-	-	-	-	-	-	-	11	A-3a (V)	X	
		27																X
		28	10 9	24	56	SS-11	-	-	-	-	-	-	-	-	10	A-3a (V)	X	
		29	12															X

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 183+89, 25' LT.	START: 6/28/21	END: 6/29/21	PG 2 OF 2	B-076-2-20											
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
	671.4							GR	CS	FS	SI	CL	LL	PL	PI			
	669.9	31	11 12 13	29	72	SS-12	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<L> >L> <L> >L>

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>184+01, 65' RT.</u>	EXPLORATION ID <u>B-077-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>703.5 (MSL)</u> EOB: <u>8.5 ft.</u>	
START: <u>12/9/14</u> END: <u>12/9/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.495631, -81.678618</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", ASPHALT	703.5																	
9.0", CONCRETE	703.2	1																
2.0", GRANULAR BASE	702.4	2																
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	702.2	3	6	27	100	SS-1	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		4	8	13														
		5	14	39	100	SS-2	-	11	14	62	8	5	NP	NP	NP	8	A-3a (0)	
		6	15	15														
		7	8	12	32	100	SS-3	-	-	-	-	-	-	-	-	-	12	A-3a (V)
		8	9	13														
@5.5'; SS-4 CHANGES TO BLACK, BROWN AND GRAY, SOME GRAVEL, LITTLE SILT, CONTAINS CONCRETE FRAGMENTS	696.5	9	18	50	100	SS-4	-	27	20	32	14	7	NP	NP	NP	10	A-3a (0)	
		10	21															
DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	695.0	11	11	13	37	100	SS-5	-	-	-	-	-	-	-	-	-	8	A-3a (V)
		12	13	16														

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>186+36, 27' LT.</u>	EXPLORATION ID: <u>B-078-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>670.9 (MSL)</u> EOB: <u>112.0 ft.</u>	PAGE: <u>1 OF 4</u>
START: <u>1/21/15</u> END: <u>1/22/15</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.496226, -81.678129</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
2.4" TOPSOIL	670.9		2																
VERY STIFF, DARK BROWN, GRAY AND DARK GRAY, SILT AND CLAY , "AND" SAND, TRACE GRAVEL, CONTAINS FEW ROOTS, MOIST (FILL)	670.7	1	4	12	67	SS-1	2.25	6	12	26	34	22	33	20	13	22	A-6a (5)	<><><>	
MEDIUM DENSE, BROWN AND DARK GRAY, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, CONTAINS BRICK FRAGMENTS AND FEW ROOTS, DAMP (FILL)	668.9	2																	<><><>
MEDIUM DENSE, BROWN AND DARK GRAY, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, CONTAINS BRICK FRAGMENTS AND FEW ROOTS, DAMP (FILL)	666.4	3	6	17	100	SS-2	-	-	-	-	-	-	-	-	-	12	A-4a (V)	<><><>	
MEDIUM DENSE, BROWN AND DARK GRAY, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, DAMP TO MOIST (FILL)	666.4	4	6	14	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<><><>	
@7.5' ; SS-4 CONTAINS BRICK FRAGMENTS	666.4	5	7																<><><>
	666.4	6	5	13	100	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<><><>	
	666.4	7	5	13	100	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<><><>	
	666.4	8	5	13	100	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<><><>	
	666.4	9	5	13	100	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<><><>	
	666.4	10	3	13	100	SS-5	-	13	19	46	15	7	NP	NP	NP	12	A-3a (0)	<><><>	
	666.4	11	3	13	100	SS-5	-	13	19	46	15	7	NP	NP	NP	12	A-3a (0)	<><><>	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	658.9	12	3	13	100	SS-6	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<><><>	
	658.9	13	5	13	100	SS-6	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<><><>	
	658.9	14	5	13	100	SS-6	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<><><>	
MEDIUM DENSE, BROWN MOTTLED WITH GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP TO WET	655.2	15	4	17	100	SS-7A	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<><><>	
	655.2	16	6	17	100	SS-7B	-	0	1	54	28	17	18	14	4	14	A-4a (2)	<><><>	
	655.2	17	7	17	100	SS-7B	-	0	1	54	28	17	18	14	4	14	A-4a (2)	<><><>	
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	653.0	18	4	21	100	SS-8A	-	-	-	-	-	-	-	-	-	28	A-4a (V)	<><><>	
	653.0	19	8	21	100	SS-8B	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<><><>	
	653.0	20	8	21	100	SS-8B	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<><><>	
LOOSE, BROWN AND GRAY, SILT , LITTLE SAND, TRACE CLAY, TRACE GRAVEL, WET	651.4	21	3	8	100	SS-9	-	0	1	19	73	7	NP	NP	NP	30	A-4b (8)	<><><>	
	651.4	22	3	8	100	SS-9	-	0	1	19	73	7	NP	NP	NP	30	A-4b (8)	<><><>	
@22.5' ; SS-10 NO RECOVERY	648.4	23	2	5	0	SS-10	-	-	-	-	-	-	-	-	-	-			<><><>
	648.4	24	2	5	0	SS-10	-	-	-	-	-	-	-	-	-	-			<><><>
LOOSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, MOIST TO WET	646.4	25	3	8	100	SS-11	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<><><>	
	646.4	26	1	8	100	SS-11	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<><><>	
	646.4	27	5	8	100	SS-11	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<><><>	
@27.5' ; SS-12 BECOMES BROWN AND GRAY	646.4	28	4	27	100	SS-12	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<><><>	
	646.4	29	9	27	100	SS-12	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<><><>	
	646.4	29	12	27	100	SS-12	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<><><>	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 186+36, 27' LT. START: 1/21/15 END: 1/22/15 PG 4 OF 4 B-078-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 576.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM STIFF, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS SILT LENSES, MOIST <i>(continued)</i>	572.6	95	6																
		96	6 10	21	100	SS-26	0.90	-	-	-	-	-	-	-	21	A-6a (V)	<V>		
VERY SOFT TO SOFT, GRAYISH BROWN, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST	558.9	97																	
		98																	
		99																	
		100	5																
		101	6 7	17	100	SS-27	0.25	-	-	-	-	-	-	-	24	A-6b (V)	<V>		
	102																		
	103																		
	104																		
	105	2																	
	106	3 6	12	100	SS-28	0.10	-	-	-	-	-	-	-	27	A-6b (V)	<V>			
	107																		
	108																		
	109																		
	110																		
@111.2'; UNIT WEIGHT: 123.1 PCF @ 30.5% MC		111			96	ST-29	0.40	0	1	1	23	75	40	20	20	31	A-6b (12)	<V>	
		112																	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 21.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 188+90, 2' LT.		START: 3/12/21		END: 3/15/21		PG 2 OF 4		B-078-1-20							
MATERIAL DESCRIPTION AND NOTES			ELEV. 637.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, GRAY, SANDY SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, WET (continued)			637.0	31	3 7 11	27	100	SS-12	-	-	-	-	-	-	-	-	23	A-4a (V)			
				32																	
				33																	
				34																	
				35	7																
				36	10 12	33	100	SS-13	-	0	1	59	35	5	NP	NP	NP		20	A-4a (1)	
				37																	
				38																	
				39																	
				40	4																
VERY STIFF, GRAY, SILT, LITTLE TO SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			626.0	41	8 9	25	100	SS-14A	-	-	-	-	-	-	-	-	23	A-4a (V)			
				42																	
				43																	
				44																	
				45	4																
				46	7 8	22	100	SS-15	3.25	1	0	3	74	22	26	20	6	19	A-4b (8)		
				47																	
				48																	
				49																	
@55.0'; SS-17 BECOMES LOOSE, WET			626.0	50	2																
				51	3 3	9	100	SS-16	2.25	-	-	-	-	-	-	-	21	A-4b (V)			
				52																	
				53																	
				54																	
				55	3																
				56	3 4	10	100	SS-17	-	0	0	3	79	18	NP	NP	NP	23	A-4b (8)		
				57																	
				58																	
				59																	
			626.0	60	3																
				61	5 6	16	100	SS-18	2.75	-	-	-	-	-	-	-	22	A-4b (V)			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 188+90, 2' LT. START: 3/12/21 END: 3/15/21 PG 4 OF 4 B-078-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 572.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)		95	5															
		96	6 6	18	100	SS-25	4.50	-	-	-	-	-	-	-	20	A-6a (V)		
		97																
		98																
		99																
		100		5														
		101		5 4	13	100	SS-26	1.50	-	-	-	-	-	-	24	A-6a (V)		
		102																
		103																
		104																
	105		3															
	106		4 5	13	100	SS-27	1.75	0	1	2	55	42	32	19	13	24	A-6a (9)	
	107																	
	108																	
	109		2															
	110		4 6	15	100	SS-28	1.50	-	-	-	-	-	-	29	A-6a (V)			

557.0 EOB

NOTES: GROUNDWATER ENCOUNTERED AT 16.5' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 100 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>188+15, 41' LT.</u>	EXPLORATION ID <u>B-080-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>669.4 (MSL)</u> EOB: <u>9.0 ft.</u>	PAGE 1 OF 1
START: <u>12/22/14</u> END: <u>12/22/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.496459, -81.678286</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
VERY STIFF, DARK GRAY AND BROWN, SILT AND CLAY , "AND" SAND, LITTLE GRAVEL, DAMP (FILL)	669.4	1	3	4	14	100	SS-1	3.25	11	15	32	26	16	33	21	12	18	A-6a (2)	<V> >L>
MEDIUM DENSE, ORANGISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, CONTAINS SILT LENSES, IRON STAINING, MOIST	667.4	2	4	5	15	100	SS-2	-	8	13	59	12	8	NP	NP	NP	12	A-3a (0)	<V> >L>
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	664.9	3	4	5															<V> >L>
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	662.4	4	3	2	9	100	SS-3	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<V> >L>
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP	660.4	5	2	2	6	100	SS-4	-	-	-	-	-	-	-	-	-	9	A-3a (V)	<V> >L>
		6																	<V> >L>
		7																	<V> >L>
		8																	<V> >L>
		9																	<V> >L>
		EOB																	<V> >L>

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>189+07, 22' RT.</u>	EXPLORATION ID <u>B-081-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>686.8 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/16/14</u> END: <u>12/16/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.496578, -81.677243</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
4.0", ASPHALT	686.8																		
14.0", CONCRETE	686.5 685.6	1																	
6.0", GRANULAR BASE	684.8	2																	
DENSE TO VERY DENSE, GRAYISH BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)		3	6	12	36	100	SS-1	-	4	18	59	13	6	NP	NP	NP	9	A-3a (0)	
		4																	
		5	12																
		6	14 21	53	100	SS-2	-	-	-	-	-	-	-	-	-	-	-	9	A-3a (V)
@7.5'; SS-3 CHANGES TO SOME GRAVEL, CONTAINS BRICK FRAGMENTS		7																	
		8	15 35	90	100	SS-3	-	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
	677.8	9																	

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>192+12, 13' RT.</u>	EXPLORATION ID <u>B-083-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>675.4 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.497118, -81.676387</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
10.0", ASPHALT	675.4																		
14.0", GRANULAR BASE	674.6	1																	
	673.4	2																	
MEDIUM DENSE, DARK GRAY AND BLACK, GRAVEL , SOME SAND, TRACE SILT, TRACE CLAY, CONTAINS ASPHALT FRAGMENTS, DAMP (FILL)	671.9	3	5	11	29	100	SS-1	-	64	18	11	5	2	NP	NP	NP	6	A-1-a (0)	<L> <L> <L>
		4	10	12	38	100	SS-2	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<L> <L> <L>
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME SILT, LITTLE GRAVEL, TRACE CLAY, MOIST		5	14	11	29	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<L> <L> <L>
SS-2 AND SS-3 CONTAIN BRICK FRAGMENTS (FILL) @6.5'; SS-4 CHANGES TO DARK GRAY AND BLACK, WET		6	11	11	29	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<L> <L> <L>
		7	11	14	37	100	SS-4	-	11	15	43	23	8	NP	NP	NP	15	A-3a (0)	<L> <L> <L>
	667.4	8	14	14															

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>196+29, 133' RT.</u>	EXPLORATION ID <u>B-084-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>661.5 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>12/15/14</u> END: <u>12/15/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.497464, -81.674920</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	661.5																	
12.0", CONCRETE	661.0	1																
6.0", GRANULAR BASE	660.0	2																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, (GRAVEL IS SANDSTONE), MOIST	659.5	3	6	24	100	SS-1	-	17	14	55	9	5	NP	NP	NP	12	A-3a (0)	< < < > > >
	657.0	4	6	10														< < < > > >
LOOSE TO MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, MOIST TO WET		5	6	11	100	SS-2	-	-	-	-	-	-	-	-	-	14	A-1-b (V)	< < < > > >
		6	4	3														< < < > > >
		7																< < < > > >
		8	2	5	100	SS-3	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	< < < > > >
	652.5	9	1	2														< < < > > >
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>199+20, 6' LT.</u>	EXPLORATION ID <u>B-085-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>650.6 (MSL)</u> EOB: <u>8.7 ft.</u>	
START: <u>12/2/14</u> END: <u>12/2/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.498146, -81.674208</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
5.0", ASPHALT	650.6																	
9.0", CONCRETE	650.2 649.4																	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, SS-2 CONTAINS FEW BRICK FRAGMENTS, DAMP TO MOIST (FILL)																		
	646.4	W 646.4																
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET																		
	641.9																	
		EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 4.2' DURING DRILLING. CAVE DEPTH 3.3'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 35+35, 81' LT.		START: 3/16/21		END: 3/16/21		PG 2 OF 3		B-085-1-20								
MATERIAL DESCRIPTION AND NOTES			ELEV. 642.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.		
										GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE TO DENSE, GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, MOIST TO WET (continued)			642.4	31	8 12 11	26	100	SS-12	-	-	-	-	-	-	-	-	-	17	A-3a (V)			
				32																		
				33	7 7 10	19	89	SS-13	-	-	-	-	-	-	-	-	-	-	-	25	A-3a (V)	
				34																		
				35	6 10 16	30	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	25	A-3a (V)	
				36																		
				37																		
				38	5 8 7	17	94	SS-15	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
				39																		
				40	3 4 3	8	89	SS-16	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
				41																		
				42																		
				43	6 6 8	16	100	SS-17	-	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
				44																		
				45	7 9 8	19	100	SS-18	-	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
				46																		
				47																		
				48	8 8 11	22	89	SS-19	-	-	-	-	-	-	-	-	-	-	-	16	A-3a (V)	
				49																		
				50	8 10 10	23	94	SS-20	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
51																						
52																						
53																						
54																						
55		3						SS-21A	-	-	-	-	-	-	-	20	A-3a (V)					
56		2 3	6	78				SS-21B	4.25	0	0	6	61	33	29	19	10	23	A-4b (8)			
57																						
58																						
59																						
60		3 4 5	10	89	SS-22	1.25	-	-	-	-	-	-	-	-	-	24	A-4b (V)					
61																						

616.9

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 35+35, 81' LT. START: 3/16/21 END: 3/16/21 PG 3 OF 3 B-085-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 610.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, MOIST TO WET (continued)																		
			63															
			64															
			65	3														
	605.9	EOB	5	5	11	100	SS-23	1.50	0	1	13	60	26	25	18	7	23	A-4b (8)

NOTES: GROUNDWATER ENCOUNTERED AT 27.0' DURING DRILLING, 26.4' AFTER PIEZOMETER INSTALLATION. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 35 GAL. BENTONITE GROUT; POURED 2 BAGS CEMENT; POURED 7 BAGS SAND

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 35+02, 65' LT.		START: 3/25/21		END: 3/25/21		PG 4 OF 5		B-085-2-20									
MATERIAL DESCRIPTION AND NOTES			ELEV. 577.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED			
										GR	CS	FS	SI	CL	LL	PL	PI						
STIFF TO HARD, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued)			+++++	95	12	43	89	SS-29	3.75	-	-	-	-	-	-	-	-	22	A-4b (V)				
				96	18 20																		
				97																			
				98																			
				99																			
				100	12	24	78	SS-30	4.25	-	-	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
				101	11 10																		
				102																			
				103																			
				104																			
105	10	24	100	SS-31	4.50	-	-	-	-	-	-	-	-	-	-	-	23	A-4b (V)					
106	11 10																						
107																							
108																							
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			563.7	109																			
				110	9	26	89	SS-32	1.25	1	2	5	49	43	29	18	11	23	A-6a (8)				
				111	12 11																		
				112																			
				113																			
				114																			
				115	10	26	100	SS-33	1.50	-	-	-	-	-	-	-	-	-	-	25	A-6a (V)		
				116	12 11																		
				117																			
				118																			
119																							
120	11	26	89	SS-34	1.50	-	-	-	-	-	-	-	-	-	-	23	A-6a (V)						
121	13 10																						
122																							
123																							
124																							
125	10	29	100	SS-35	1.00	-	-	-	-	-	-	-	-	-	-	30	A-6a (V)						
126	11																						

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 35+02, 65' LT. START: 3/25/21 END: 3/25/21 PG 5 OF 5 B-085-2-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 545.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET (continued)																		
			127	14														
			128															
			129															
	540.5	EOB	130	11	30	100	SS-36	0.75	-	-	-	-	-	-	-	31	A-6a (V)	
			131	11														
			131	15														

NOTES: GROUNDWATER ENCOUNTERED AT 22.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 250 GAL. BENTONITE GROUT; POURED 2 BAGS HOLE PLUG

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / ASHBAUGH</u>	DRILL RIG: <u>CME 55T</u>	STATION / OFFSET: <u>1620+93, 108' RT.</u>	EXPLORATION ID <u>B-085-3-20</u>
TYPE: <u>PIEZO</u>	SAMPLING FIRM / LOGGER: <u>NEAS / ASHBAUGH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP B6</u>	PAGE 1 OF 2
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>669.8 (MSL)</u> EOB: <u>51.5 ft.</u>	
START: <u>3/17/21</u> END: <u>3/17/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>68.4</u>	LAT / LONG: <u>41.497630, -81.674080</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.
								GR	CS	FS	SI	CL	LL	PL	PI			
5.0" TOPSOIL (DRILLERS DESCRIPTION) LOOSE TO MEDIUM DENSE, BROWN BECOMING BROWNISH GRAY, FINE SAND , SOME COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, SS-1 CONTAINS IRON STAINING, DAMP TO MOIST @25.0'; BECOMES WET	669.8																	
	669.4																	
	1																	
	2																	
	3																	
	4																	
	5			4														
	6			5	14	67	SS-1	-	-	-	-	-	-	-	-	8	A-3 (V)	
	7																	
	8																	
	9																	
	10			3														
	11			4	10	67	SS-2	-	-	-	-	-	-	-	-	13	A-3 (V)	
	12																	
	13																	
	14																	
	15			4														
	16			3	8	78	SS-3	-	6	30	55	6	3	NP	NP	NP	12	A-3 (0)
	17																	
	18																	
	19																	
	20			4														
	21			5	16	72	SS-4	-	-	-	-	-	-	-	-	10	A-3 (V)	
	22																	
	23																	
	24																	
	25			4														
	26			4	14	89	SS-5	-	-	-	-	-	-	-	-	22	A-3 (V)	
	27																	
28																		
29																		



W 646.0

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:24 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 1620+93, 108' RT. START: 3/17/21 END: 3/17/21 PG 2 OF 2 B-085-3-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 639.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.	
								GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN BECOMING BROWNISH GRAY, FINE SAND , SOME COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, SS-1 CONTAINS IRON STAINING, DAMP TO MOIST (continued)		31	4 5 11	18	78	SS-6	-	-	-	-	-	-	-	-	-	23	A-3 (V)		
		32																	
		33																	
		34																	
		35	6 6 7	15	100	SS-7	-	-	-	-	-	-	-	-	-	20	A-3 (V)		
		36																	
		37																	
		38																	
		39																	
		40	6 7 8	17	100	SS-8	-	-	-	-	-	-	-	-	-	25	A-3 (V)		
41																			
42																			
43																			
44																			
45	5 8 8	18	89	SS-9	-	-	-	-	-	-	-	-	-	24	A-3 (V)				
46																			
47																			
48	621.5																		
MEDIUM DENSE, GRAY, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET		49																	
		50																	
		51	8 9 13	25	89	SS-10	-	0	0	21	59	20	NP	NP	NP	19	A-4b (8)		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 23.8' DURING DRILLING, 21.7' AFTER PIEZOMETER INSTALLATION. HOLE DID NOT CAVE. BORING OFFSET 22.0' SOUTH.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 30 GAL. BENTONITE GROUT; POURED 2 BAGS CEMENT; POURED 7 BAGS SAND

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PROJECT: CUY-90-16.28 (CCG3A)	DRILLING FIRM / OPERATOR: NEAS / ASHBAUGH	DRILL RIG: CME 55T	STATION / OFFSET: 33+19, 45' RT.	EXPLORATION ID B-085-4-20
TYPE: PIEZO	SAMPLING FIRM / LOGGER: NEAS / ASHBAUGH	HAMMER: CME AUTOMATIC	ALIGNMENT: E 22ND ST	
PID: 82382 SFN: 1807839	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 12/5/19	ELEVATION: 670.8 (MSL) EOB: 51.5 ft.	PAGE 1 OF 2
START: 3/10/21 END: 3/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 68.4	LAT / LONG: 41.497956, -81.673732	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.
								GR	CS	FS	SI	CL	LL	PL	PI			
5.0" TOPSOIL (DRILLERS DESCRIPTION) LOOSE TO MEDIUM DENSE, BROWN BECOMING GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, SS-5 CONTAINS IRON STAINING, DAMP TO MOIST	670.8																	
	670.4	1																
		2																
		3																
		4																
		5		4														
		6		10 12	25	89	SS-1	-	-	-	-	-	-	-	-	8	A-3a (V)	
		7																
		8																
		9																
		10		4														
		11		8 10	21	100	SS-2	-	-	-	-	-	-	-	-	9	A-3a (V)	
		12																
		13																
		14																
		15		4														
		16		6 6	14	89	SS-3	-	4	19	54	17	6	NP	NP	NP	6	A-3a (0)
		17																
		18																
		19																
		20		4														
		21		4 5	10	89	SS-4	-	-	-	-	-	-	-	-	13	A-3a (V)	
		22																
		23																
		24																
	25		8															
	26		13 13	30	100	SS-5	-	-	-	-	-	-	-	-	21	A-3a (V)		
	27																	
	28																	
	29																	

647.2

@25.0'; BECOMES WET

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 33+19, 45' RT. START: 3/10/21 END: 3/10/21 PG 2 OF 2 B-085-4-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 640.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.	
								GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN BECOMING GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, SS-5 CONTAINS IRON STAINING, DAMP TO MOIST (continued) @30.0'; 3.2' OF SAND HEAVE @35.0'; SAND HEAVE @40.0'; SAND HEAVE	640.8	31	7 10 14	27	100	SS-6	-	-	-	-	-	-	-	-	-	18	A-3a (V)		
		32																	
		33																	
		34																	
		35	4 4 6	11	78	SS-7	-	-	-	-	-	-	-	-	-	17	A-3a (V)		
		36																	
		37																	
38																			
39																			
40	5 7 10	19	89	SS-8	-	-	-	-	-	-	-	-	-	18	A-3a (V)				
41																			
42																			
43	627.5																		
MEDIUM DENSE, GRAY, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET	627.5	44																	
		45	6 7 8	17	100	SS-9	-	0	1	23	61	15	NP	NP	NP	24	A-4b (8)		
		46																	
47																			
48	622.5																		
LOOSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET	622.5	49																	
		50	4 4 5	10	100	SS-10	-	-	-	-	-	-	-	-	19	A-3a (V)			
		51																	
	619.3	EOB																	

NOTES: GROUNDWATER ENCOUNTERED AT 23.6' DURING DRILLING. ENCOUNTERED SAND HEAVE IN SS-6 TO SS-8. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 30 GAL. BENTONITE GROUT; POURED 2 BAGS CEMENT; POURED 7 BAGS SAND

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 35+18, 77' RT.		START: 4/7/21		END: 4/7/21		PG 4 OF 5		B-086-1-20										
MATERIAL DESCRIPTION AND NOTES			ELEV. 576.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.				
										GR	CS	FS	SI	CL	LL	PL	PI							
VERY STIFF TO HARD, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)			576.1	95	8																			
				96	9	21	100	SS-31	2.25	-	-	-	-	-	-	-	-	-	23	A-6a (V)				
				97																				
				98																				
				99																				
				100	10																			
				101	8	17	100	SS-32	2.25	1	1	3	42	53	33	20	13	27	A-6a (9)					
				102																				
				103																				
				104																				
SOFT TO MEDIUM STIFF, GRAY, CLAY , SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST			557.1	105	7																			
				106	10	21	100	SS-33	0.75	-	-	-	-	-	-	-	-	29	A-7-6 (V)					
				107																				
				108																				
				109																				
				110	5																			
				111	7	15	100	SS-34	0.50	0	1	1	33	65	43	22	21	29	A-7-6 (13)					
				112																				
				113																				
				114																				
SOFT TO VERY STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			557.1	115	5																			
				116	5	14	100	SS-35	0.50	-	-	-	-	-	-	-	22	A-6a (V)						
				117																				
				118																				
				119																				
				120	5																			
				121	6	16	100	SS-36	1.75	-	-	-	-	-	-	-	-	24	A-6a (V)					
				122																				
				123																				
				124																				
125	6																							
126	7	16	100	SS-37	3.00	0	0	1	50	49	32	19	13	22	A-6a (9)									

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT. - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 35+18, 77' RT. START: 4/7/21 END: 4/7/21 PG 5 OF 5 B-086-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 544.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.
								GR	CS	FS	SI	CL	LL	PL	PI			
SOFT TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)		127																
		128																
		129																
		130	5															
		131	6 7	15	100	SS-38	2.75	-	-	-	-	-	-	-	22	A-6a (V)		
		132																
		133																
		134																
	135	7																
	136	8 7	17	100	SS-39	3.50	-	-	-	-	-	-	-	21	A-6a (V)			
	137																	
	138																	
	139																	
	140	8																
	141	7 9	18	100	SS-40	3.00	0	0	1	50	49	33	18	15	22	A-6a (10)		
		528.9		EOB														

NOTES: GROUNDWATER ENCOUNTERED AT 26.5' DURING DRILLING, 26.9' AFTER PIEZOMETER INSTALLATION. HOLE DID NOT CAVE. BORING OFFSET 16.0' SOUTHWEST.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 90 GAL. BENTONITE GROUT; POURED 2 BAGS CEMENT; POURED 10 BAGS SAND

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 201+25, 63' RT. START: 3/11/21 END: 3/11/21 PG 5 OF 5 B-087-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 544.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO VERY STIFF, GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)																		
			8	10	22	100	SS-37	1.50	-	-	-	-	-	-	-	-	29	A-6b (V)
			7	9	22	94	SS-38	1.50	-	-	-	-	-	-	-	-	27	A-6b (V)
	534.2	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 24.4' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 22.0' WEST.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 300 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / ASHBAUGH</u>	DRILL RIG: <u>CME 55T</u>	STATION / OFFSET: <u>204+41, 41' RT.</u>	EXPLORATION ID <u>B-087-2-20</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>NEAS / ASHBAUGH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	PAGE 1 OF 4
PID: <u>82382</u> SFN: <u>1807841</u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>644.2 (MSL)</u> EOB: <u>116.5 ft.</u>	
START: <u>6/21/21</u> END: <u>6/21/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>68.4</u>	LAT / LONG: <u>41.498580, -81.673106</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
12.0" ASPHALT AND 9.5" CONCRETE AND 9.5" BASE (DRILLERS DESCRIPTION)	644.2																	X
	641.6	1																X
LOOSE TO MEDIUM DENSE, GRAY, SILT , LITTLE TO SOME SAND, TRACE CLAY, TRACE GRAVEL, WET		2																X
		3	4	3	9	72	SS-1	-	0	0	11	83	6	NP	NP	NP	28	A-4b (8)
		4																X
		5	4	3	8	100	SS-2	-	1	0	29	63	7	NP	NP	NP	24	A-4b (7)
		6	4	3	4													X
	632.4	7																X
MEDIUM DENSE, BROWNISH GRAY, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST		8	4	4	9	89	SS-3	-	-	-	-	-	-	-	-	-	29	A-4b (V)
		9																X
		10	3	4	11	94	SS-4	-	-	-	-	-	-	-	-	-	26	A-4b (V)
		11	4	6														X
		12	6	7	18	100	SS-5	-	-	-	-	-	-	-	-	-	14	A-3a (V)
MEDIUM DENSE, BROWNISH GRAY, FINE SAND , LITTLE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, WET		13																X
		14																X
		15	9	10	23	100	SS-6	-	-	-	-	-	-	-	-	-	18	A-3a (V)
		16	10	10														X
		17																X
@20.0'; SS-8 CONTAINS A 1.25" SILT AND CLAY SEAM		18	8	9	25	100	SS-7	-	-	-	-	-	-	-	-	-	29	A-3 (V)
		19																X
		20	7	10	25	100	SS-8	-	-	-	-	-	-	-	-	-	25	A-3 (V)
		21	10	12														X
		22																X
MEDIUM STIFF TO STIFF, GRAY, SILT , SOME CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, SS-13 CONTAINS NO INTACT SOIL PLUGS FOR HP READINGS, MOIST TO WET		23	8	7	19	100	SS-9	-	-	-	-	-	-	-	-	-	23	A-3 (V)
		24																X
		25	4	6	15	89	SS-10	1.00	0	1	9	65	25	26	18	8	22	A-4b (8)
		26																X
		27																X
	619.7	28	5	8	18	100	SS-11	1.25	-	-	-	-	-	-	-	-	19	A-4b (V)
		29																X

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 204+41, 41' RT. START: 6/21/21 END: 6/21/21 PG 4 OF 4 B-087-2-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 550.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
SOFT TO STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)		95	7															
		96	9 8	19	78	SS-26	1.50	0	0	3	59	38	29	18	11	23	A-6a (8)	
		97																
		98																
		99																
		100	10															
		101	12 9	24	89	SS-27	1.00	-	-	-	-	-	-	-	-	26	A-6a (V)	
		102																
		103																
		104																
		105	10 8	21	78	SS-28	0.75	-	-	-	-	-	-	-	-	25	A-6a (V)	
		106	10															
	107																	
	108																	
	109																	
	110	8																
	111	11 12	26	100	SS-29	0.50	1	1	4	37	57	35	22	13	28	A-6a (9)		
	112																	
	113																	
	114																	
	115	9																
	116	10 12	25	100	SS-30	1.25	-	-	-	-	-	-	-	-	28	A-6a (V)		
		527.7																
			EOB															

NOTES: GROUNDWATER ENCOUNTERED AT 10.0' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET TO THE EAST.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 250 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A - MOD#7)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 202+41, 58' RT.		START: 3/31/21		END: 3/31/21		PG 2 OF 5		B-087-3-20							
MATERIAL DESCRIPTION AND NOTES			ELEV. 640.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
										GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, SS-9 CONTAINS A 3.0" GRAY SILT (A-4B) SEAM, MOIST TO DAMP <i>(continued)</i>			640.1	31	7 10 15	29	72	SS-14	-	-	-	-	-	-	-	-	-	21	A-3a (V)		
				32																	
				33	6 12 13	29	89	SS-15	-	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)
				34																	
				35	7 14 12	30	83	SS-16	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)
				36																	
				37																	
				38	7 13 17	34	83	SS-17	-	-	-	-	-	-	-	-	-	-	-	19	A-3a (V)
				39																	
				40	7 15 19	39	89	SS-18	-	-	-	-	-	-	-	-	-	-	-	19	A-3a (V)
				41																	
				42																	
				43	7 12 15	31	78	SS-19	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)
				44																	
				45	5 8 12	23	78	SS-20	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)
				46																	
				47																	
				48	4 7 9	18	78	SS-21	-	-	-	-	-	-	-	-	-	-	-	17	A-3a (V)
				49																	
				50	4 6 7	15	100	SS-22	-	-	-	-	-	-	-	-	-	-	-	16	A-3a (V)
51																					
52																					
53	4 5 6	13	94	SS-23	1.75	0	1	8	61	30	28	18	10	22	A-4b (8)						
54																					
55	3 5 5	11	100	SS-24	2.00	-	-	-	-	-	-	-	-	22	A-4b (V)						
56																					
57																					
58	4 4 4	9	100	SS-25	1.50	-	-	-	-	-	-	-	-	24	A-4b (V)						
59																					
60	3 3 5	9	100	SS-26	1.25	0	0	1	62	37	31	21	10	25	A-4b (8)						
61																					

619.1

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 202+41, 58' RT.		START: 3/31/21		END: 3/31/21		PG 4 OF 5		B-087-3-20								
MATERIAL DESCRIPTION AND NOTES			ELEV. 575.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED		
										GR	CS	FS	SI	CL	LL	PL	PI					
HARD, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued)			+++++	95	9																	
				96	11 12	26	100	SS-33	4.50	-	-	-	-	-	-	-	18	A-4b (V)				
				97																		
				98																		
				99																		
				100	8																	
				101	9 15	27	100	SS-34	4.50	0	0	0	66	34	28	20	8	20	A-4b (8)			
				102																		
				103																		
				STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			566.8	104														
105	10 10 15	29	100					SS-35	2.00	-	-	-	-	-	-	-	25	A-6a (V)				
106																						
107																						
108																						
109																						
110	11 12 14	30	100					SS-36	4.50	0	0	0	56	44	33	19	14	22	A-6a (10)			
111																						
112																						
113																						
114																						
115	8																					
116	13 16	33	100	SS-37	4.50	-	-	-	-	-	-	-	-	18	A-6a (V)							
117																						
118																						
119																						
120	9																					
121	12 15	31	100	SS-38	3.75	-	-	-	-	-	-	-	-	24	A-6a (V)							
122																						
123																						
124																						
125	10																					
126	10	26	100	SS-39	3.50	1	1	5	49	44	30	18	12	22	A-6a (9)							

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 202+41, 58' RT.		START: 3/31/21		END: 3/31/21		PG 5 OF 5		B-087-3-20						
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
										GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (<i>continued</i>)			543.7																	
STIFF, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST			541.8																	
				127	13															
				128																
				129																
				130	12															
				131	11	27	100	SS-40	1.25	0	1	1	31	67	40	22	18	27	A-6b (11)	
				132	13															
				133																
				134																
				135	11															
				136	15	35	100	SS-41	1.25	-	-	-	-	-	-	-	-	30	A-6b (V)	
				137	16															
				138																
STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			531.8																	
				139																
				140	8															
				141	18	43	100	SS-42	1.50	1	1	2	45	51	35	20	15	24	A-6a (10)	
			528.6		20															

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 26.7' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 11.0' WEST AND 5.0' SOUTH.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 250 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:13 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>408+87, 132' LT.</u>	EXPLORATION ID <u>B-088-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>678.2 (MSL)</u> EOB: <u>8.5 ft.</u>	PAGE 1 OF 1
START: <u>2/3/15</u> END: <u>2/3/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492213, -81.677246</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", ASPHALT	678.2																	
8.0", CONCRETE	677.9 677.6																	
DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, DAMP (FILL)	675.7	1	9	31	100	SS-1	-	22	17	44	10	7	NP	NP	NP	9	A-3a (0)	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, WET (FILL) @4.0"; SS-3 TO SS-5 BECOME VERY LOOSE TO LOOSE		2	11 13	22	100	SS-2	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
		3	9	4	78	SS-3	-	-	-	-	-	-	-	-	-	13	A-1-b (V)	
		4	5	3	44	SS-4	-	-	-	-	-	-	-	-	-	12	A-1-b (V)	
		5	2	1														
		6	3	1														
		7	1	3														
		8	2	8	56	SS-5	-	44	17	27	6	6	NP	NP	NP	15	A-1-b (0)	
	669.7	EOB	4															

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>412+93, 207' LT.</u>	EXPLORATION ID <u>B-089-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>676.4 (MSL)</u> EOB: <u>9.0 ft.</u>	
START: <u>2/3/15</u> END: <u>2/3/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492649, -81.678837</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	676.4																	
12.0", CONCRETE	675.9	1																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (FILL)	674.9	2	4	6	18	100	SS-1	-	-	-	-	-	-	-	-	-	8	A-3a (V)
		3	7	8	21	100	SS-2	-	6	15	65	9	5	NP	NP	NP	8	A-3a (0)
@4.5"; SS-3 CHANGES TO GRAYISH BROWN, LITTLE GRAVEL	670.4	5	7	7	17	100	SS-3	-	-	-	-	-	-	-	-	-	10	A-3a (V)
MEDIUM DENSE, LIGHT BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	667.4	6	7	6	15	100	SS-4	-	2	8	82	4	4	NP	NP	NP	8	A-3 (0)
		7	6	6														
		8	5	7	21	89	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)
		9	7	9														

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>415+65, 424' LT.</u>	EXPLORATION ID <u>B-090-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>674.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>1/27/15</u> END: <u>1/27/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.492879, -81.680269</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	674.0																	
12.0", CONCRETE	673.5	1																
6.0", GRANULAR BASE	672.5	2																
MEDIUM DENSE, GRAY TO LIGHT BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	672.0	3	24	11	25	100	SS-1	-	40	27	18	10	5	NP	NP	NP	7	A-1-b (0)
		4	12	11	25	17	SS-2	-	-	-	-	-	-	-	-	-	9	A-1-b (V)
	669.0	5	2	2	8	100	SS-3	-	-	-	-	-	-	-	-	-	6	A-3a (V)
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, DAMP TO WET		6	3	3	8	100	SS-4	-	5	18	56	12	9	NP	NP	NP	21	A-3a (0)
	666.0	7																
		8																
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / JO.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>21+73, 38' LT.</u>	EXPLORATION ID <u>B-091-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>669.0 (MSL)</u> EOB: <u>3.0 ft.</u>	
START: <u>3/12/15</u> END: <u>3/12/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.495042, -81.684256</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI		
6.0", ASPHALT	669.0																
8.0", CONCRETE	668.5																
12.0", AGGREGATE BASE	667.8	1															
	666.8	2															
AUGER REFUSAL AT APPROXIMATELY 3.0', REFUSAL AFTER REPEATED TRIES	666.0	3															
EOB																	

COULD NOT OFFSET BORING DUE TO UTILITIES

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / JO.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>26+82, 264' LT.</u>	EXPLORATION ID <u>B-092-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>670.5 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/12/15</u> END: <u>3/12/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.496341, -81.683187</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", ASPHALT	670.5																	
12.0", CONCRETE	670.2	1																
8.0", GRANULAR BASE	669.2	2																
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, SS-1 CONTAINS BRICK FRAGMENTS, DAMP (FILL) @5.0'; SS-3 CHANGES TO BROWN WITH GRAY	668.5	3	5	18	100	SS-1	-	14	31	40	10	5	NP	NP	NP	6	A-3a (0)	<L> <L> <L>
		4	3	4	8	SS-2	-	-	-	-	-	-	-	-	-	6	A-3a (V)	<L> <L> <L>
		5	2	2	5	SS-3	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<L> <L> <L>
	664.0	6	2	2	5	SS-3	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<L> <L> <L>
LOOSE, LIGHT BROWN, FINE SAND , SOME COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	662.5	7	3	2	5	SS-4	-	12	25	54	6	3	NP	NP	NP	7	A-3 (0)	<L> <L> <L>
		8	2	2	5	SS-4	-	12	25	54	6	3	NP	NP	NP	7	A-3 (0)	<L> <L> <L>
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>22+69, 32' RT.</u>	EXPLORATION ID <u>B-093-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>669.5 (MSL)</u> EOB: <u>7.0 ft.</u>	
START: <u>2/3/15</u> END: <u>2/3/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.495030, -81.683824</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
6.0", ASPHALT	669.5																	
12.0", CONCRETE	669.0	1	43															
6.0", GRANULAR BASE	668.0	2	17	41	100	SS-1	-	-	-	-	-	-	-	-	7	A-1-b (V)	X	
DENSE, GRAYISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS CONCRETE FRAGMENTS, DAMP	667.5	3	5	15	100	SS-2	-	23	26	29	14	8	NP	NP	NP	9	A-3a (0)	> <
(FILL)	667.0	4	5	5														> <
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, DAMP	665.5	5	5	13	100	SS-3	-	42	20	15	18	5	NP	NP	NP	8	A-1-b (0)	> <
(FILL)	665.0	6	4	5														> <
LOOSE TO MEDIUM DENSE, LIGHT BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP	662.5	7	4	10	89	SS-4	-	-	-	-	-	-	-	-	10	A-1-b (V)	> <	
(FILL)	662.0	EOB	4	10	89	SS-4	-	-	-	-	-	-	-	-	10	A-1-b (V)	> <	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / JO.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>174+96, 9' LT.</u>	EXPLORATION ID <u>B-094-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>673.2 (MSL)</u> EOB: <u>8.0 ft.</u>	PAGE 1 OF 1
START: <u>3/12/15</u> END: <u>3/12/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.494700, -81.681719</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
3.0", ASPHALT	673.2																	
6.0", CONCRETE	673.0 672.5	1																
15.0", GRANULAR BASE	671.2	2																
MEDIUM DENSE TO DENSE, BROWN TO GRAYISH BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, LITTLE SILT, TRACE CLAY, CONTAINS FEW ASPHALT AND BRICK FRAGMENTS, DAMP (FILL)		3	11 14 19	43	100	SS-1	-	21	25	37	11	6	NP	NP	NP	6	A-3a (0)	<L> <L> <L>
		4	19 11 10	28	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-3a (V)	<L> <L> <L>
	666.7	5	8 6 6	16	100	SS-3	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<L> <L> <L>
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	665.2	6	3 3 3	8	100	SS-4	-	20	38	29	8	5	NP	NP	NP	7	A-1-b (0)	<L> <L> <L>
		7																
		8																
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>29+11, 29' RT.</u>	EXPLORATION ID <u>B-095-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>671.4 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/24/15</u> END: <u>2/24/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.496030, -81.681895</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	670.9																		
12.0", CONCRETE	669.9	1																	
6.0", GRANULAR BASE	669.4	2																	
LOOSE TO VERY LOOSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	664.9	3	14	5	9	33	SS-1	-	-	-	-	-	-	-	-	5	A-1-b (V)	< LV < > LV >	
		4	1	1	4	78	SS-2	-	-	-	-	-	-	-	-	5	A-1-b (V)	< LV < > LV >	
		5	1	0	3	44	SS-3	-	26	36	27	7	4	NP	NP	NP	5	A-1-b (0)	< LV < > LV >
		6	2	0	3	44	SS-3	-	26	36	27	7	4	NP	NP	NP	5	A-1-b (0)	< LV < > LV >
VERY LOOSE, BROWN, FINE SAND , SOME COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	663.4	7	2	1	3	89	SS-4	-	19	29	43	6	3	NP	NP	NP	6	A-3 (0)	< LV < > LV >
		8	1	1															

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>31+14, 0' RT.</u>	EXPLORATION ID <u>B-096-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>672.3 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.496409, -81.681341</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	671.8	1																	
12.0", CONCRETE	670.8	2																	
6.0", GRANULAR BASE	670.3	3	6	12	100	SS-1	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> >L>		
LOOSE TO MEDIUM DENSE, DARK BROWN, COARSE AND FINE SAND, TRACE TO LITTLE GRAVEL, TRACE TO LITTLE SILT, TRACE CLAY, DAMP (FILL)		4	4	5	100	SS-2	-	16	33	37	8	6	NP	NP	NP	6	A-3a (0)	<L> >L>	
		5	2	2														<L> >L>	
		6	4	5	12	100	SS-3	-	-	-	-	-	-	-	6	A-3a (V)	<L> >L>		
		7	4	2	7	100	SS-4	-	10	26	40	15	9	NP	NP	NP	9	A-3a (0)	<L> >L>
		664.3	8	3															<L> >L>
EOB																			

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>36+06, 32' RT.</u>	EXPLORATION ID <u>B-097-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>672.0 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/15</u> END: <u>2/23/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.497097, -81.679790</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
6.0", ASPHALT	672.0																	
12.0", CONCRETE	671.5	1																
6.0", GRANULAR BASE	670.5	2																
SS-1 AND SS-2 NO RECOVERY	670.0	3	9	6	13	0	SS-1	-	-	-	-	-	-	-	-	-		
		4	4	4														
		5	4	3	8	0	SS-2	-	-	-	-	-	-	-	-	-		
	667.0	6	4	2	7	67	SS-3	-	16	22	50	7	5	NP	NP	NP	9	A-3a (0)
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)		7	3	5	16	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3a (V)
	664.0	8		7														

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>40+84, 46' RT.</u>	EXPLORATION ID <u>B-098-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>670.8 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.497667, -81.678786</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
4.0", ASPHALT	670.8																	
8.0", CONCRETE	670.5 669.8	1																
12.0", GRANULAR BASE	668.8	2																
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	667.3	3	2	3	8	100	SS-1	-	-	-	-	-	-	-	-	7	A-3 (V)	
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	665.8	4	3	3	8	100	SS-2	-	14	48	29	5	4	NP	NP	NP	7	A-1-b (0)
MEDIUM DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	662.8	6	3	5	13	100	SS-3	-	-	-	-	-	-	-	-	8	A-3 (V)	
		7	4	5	12	100	SS-4	-	2	15	76	4	3	NP	NP	NP	6	A-3 (0)
		8	4	5														

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>43+78, 8' RT.</u>	EXPLORATION ID <u>B-099-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>670.4 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.498096, -81.677330</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
4.0", ASPHALT	670.4																			
12.0", CONCRETE	670.1	1																		
12.0", GRANULAR BASE	669.1	2																		
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL) @5.0'; SS-3 CONTAINS CONCRETE FRAGMENTS	668.1	3	4	3	8	100	SS-1	-	12	26	46	10	6	NP	NP	NP	8	A-3a (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	
		4	2	3	11	18	100	SS-2	-	9	30	47	8	6	NP	NP	NP	7	A-3a (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		5	11	5	4	12	11	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		6	3	2	5	11		SS-4	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		662.4	8	2																<L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		EOB																		

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>47+10, 46' RT.</u>	EXPLORATION ID <u>B-100-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>670.8 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>2/23/15</u> END: <u>2/23/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.498385, -81.676170</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
4.0", ASPHALT	670.8																		
8.0", CONCRETE	670.5 669.8	1																X	
12.0", GRANULAR BASE	668.8	2																X	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	667.3	3	5	4	11	100	SS-1	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> >L>
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	665.8	4	3	3	7	100	SS-2	-	22	42	26	6	4	NP	NP	NP	7	A-1-b (0)	<L> >L>
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	662.8	5	12	4	9	100	SS-3	-	10	33	34	15	8	NP	NP	NP	7	A-3a (0)	<L> >L>
		6	3	3															<L> >L>
		7	3	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<L> >L>
		8	4	4															<L> >L>

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>50+04, 110' LT.</u>	EXPLORATION ID <u>B-101-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>671.2 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.499108, -81.675407</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	671.2																		
6.0", CONCRETE	670.7	1																	
12.0", GRANULAR BASE	670.2	2																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL)	669.2	3	5	14	100	SS-1	-	11	20	57	7	5	NP	NP	NP	6	A-3a (0)		
		4	3	11	17	SS-2	-	-	-	-	-	-	-	-	-	9	A-3a (V)		
		5	5																
		6	4	4	11	100	SS-3	-	2	12	74	7	5	NP	NP	NP	5	A-3a (0)	
		7	4	4	11	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
	663.2	8	4																
		EOB																	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>32+11, 55' LT.</u>	EXPLORATION ID: <u>B-102-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>679.0 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE: <u>1 OF 2</u>
START: <u>12/3/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.495491, -81.677640</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0" TOPSOIL	679.0		3															
LOOSE TO MEDIUM DENSE, DARK BROWN AND BROWN, COARSE AND FINE SAND, SOME GRAVEL, LITTLE SILT, TRACE CLAY, SS-1 AND SS-2 CONTAIN FEW ROOTS, WET (FILL)	678.7	1	2	6	100	SS-1	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)
@3.0'; SS-2 CONTAINS CONCRETE FRAGMENTS		2																
		3	3															
	674.5	4	2	11	33	SS-2	-	23	14	37	17	9	NP	NP	NP	14	A-3a (0)	
VERY DENSE, BROWN AND DARK GRAY, GRAVEL WITH SAND AND SILT, LITTLE CLAY, CONTAINS GRANITE AND CONCRETE FRAGMENTS, WET (FILL)		5																
		6	3															
	672.0	7	18	51	100	SS-3	-	-	-	-	-	-	-	-	-	20	A-2-4 (V)	
DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP		8																
@10.0'; SS-5 TO SS-7 BECOME LOOSE TO MEDIUM DENSE		9	16															
		10	13	38	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		11	12															
		12																
		13	4															
		14	5	15	100	SS-5	-	-	-	-	-	-	-	-	-	6	A-3 (V)	
		15	5															
		16	3															
		17	2	6	100	SS-6	-	-	-	-	-	-	-	-	-	10	A-3 (V)	
		18	2															
		19																
		20	3															
		21	3	9	100	SS-7	-	3	27	65	4	1	NP	NP	NP	5	A-3 (0)	
		22	3															
		23	3															
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		24	9															
@22.5'; SS-10 TO SS-16 BECOME LITTLE SILT, TRACE GRAVEL, CONTAINS SILT LAYERS		25	8	27	100	SS-8	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
		26	10															
		27	7															
		28	7	26	100	SS-9	-	-	-	-	-	-	-	-	-	4	A-3a (V)	
		29	10															
		30																
		31	6															
		32	8	26	100	SS-10	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
		33	9															
		34																
		35	7															
		36	7	20	67	SS-11	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
		37	6															
		38																
		39	3															
		40	3	12	78	SS-12	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
@27.5'; SS-12 TO SS-16 BECOME WET		41	5															
		42																

W 652.5

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 32+11, 55' LT.		START: 12/3/14		END: 12/3/14		PG 2 OF 2		B-102-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP <i>(continued)</i> @30.0'; SS-13 TO SS-16 BECOME GRAYISH BROWN @35.0'; SS-14 TO SS-16 BECOME DENSE			649.0	31	6 7	20	100	SS-13	-	1	5	82	11	1	NP	NP	NP	21	A-3a (0)	<V>			
			32																			<V>	
			33																				<V>
			34																				<V>
			35	6																			<V>
			36	10 12	33	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	<V>	
			37																				<V>
			38																				<V>
			39																				<V>
			40	6																			<V>
41	9 12	32	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	<V>				
42																				<V>			
43																				<V>			
44																				<V>			
45	5																			<V>			
46	9 14	35	100	SS-16	-	-	-	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<V>				
47																				<V>			
48																				<V>			
49																				<V>			
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET TO MOIST			630.7	50	4 6	18	100	SS-17	-	0	0	27	60	13	NP	NP	NP	23	A-4b (8)	<V>			
			51																			<V>	
			52																			<V>	
			53																			<V>	
			54																			<V>	
			55	6																			<V>
			56	7 12	29	100	SS-18	-	-	-	-	-	-	-	-	-	-	-	-	18	A-4b (V)	<V>	
			57																				<V>
			58																				<V>
			59																				<V>
STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, INTERBEDDED, MOIST			620.7	60	6																<V>		
			617.5	61	5 7	18	100	SS-19	1.10	0	0	1	64	35	29	18	11	26	A-6a (8)	<V>			
			EOB																			<V>	

NOTES: GROUNDWATER ENCOUNTERED AT 26.5' DURING DRILLING. CAVE DEPTH 25.1'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>202+45, 9' LT.</u>	EXPLORATION ID: <u>B-103-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST INTERIM</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>677.4 (MSL)</u> EOB: <u>9.0 ft.</u>	PAGE: <u>1 OF 1</u>
START: <u>1/22/15</u> END: <u>1/22/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.494776, -81.677457</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", TOPSOIL	677.4		2															
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE TO LITTLE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, MOIST TO WET (FILL)	677.0	1	5	13	100	SS-1	-	-	-	-	-	-	-	-	12	A-3a (V)	<L> <V> <L>	
@3.0'; SS-3 CHANGES TO DARK GRAYISH BROWN, CONTAINS BRICK AND CONCRETE FRAGMENTS		2	5	22	100	SS-2	-	12	18	57	8	5	NP	NP	NP	12	A-3a (0)	<L> <V> <L>
@4.5'; SS-4 CHANGES TO BROWN AND DARK GRAY, CONTAINS ASPHALT		3	8	32	100	SS-3	-	13	21	43	16	7	NP	NP	NP	27	A-3a (0)	<L> <V> <L>
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND, SOME COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	671.4	4	15	23	100	SS-4	-	-	-	-	-	-	-	-	11	A-3a (V)	<L> <V> <L>	
		5	10	8														
		6	4	6	17	100	SS-5	-	1	30	63	4	2	NP	NP	6	A-3 (0)	<L> <V> <L>
		7	6	7														
		8	3	2	9	100	SS-6	-	-	-	-	-	-	-	9	A-3 (V)	<L> <V> <L>	
	668.4	9	2	5														
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>198+03, 55' RT.</u>	EXPLORATION ID <u>B-104-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST INTERIM</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>672.4 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>1/22/15</u> END: <u>1/22/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.493549, -81.677515</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
3.0", ASPHALT	672.4																			
6.0", CONCRETE	671.7	1																		
9.0", GRANULAR BASE	670.9	2																		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (FILL)	667.4	3	4	7	22	100	SS-1	-	3	7	78	9	3	NP	NP	NP	8	A-3a (0)		
		4	8	7	19	100	SS-2	-	-	-	-	-	-	-	-	-	-	6	A-3a (V)	
		5	8	10	21	6	SS-3	-	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	
		6	6	3	5	14	11	SS-4	-	27	24	38	8	3	NP	NP	NP	7	A-1-b (0)	
MEDIUM DENSE, GRAY AND BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAIN CONCRETE FRAGMENTS, DAMP (FILL)	664.4	7																		
		8																		
		EOB																		

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>28+96, 36' RT.</u>	EXPLORATION ID <u>B-105-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>669.7 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/29/14</u> END: <u>12/29/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.496770, -81.673828</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	669.2																		
9.0", CONCRETE	668.4	1																	
9.0", GRANULAR BASE	667.7	2																	
MEDIUM DENSE, BROWN AND DARK BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	666.2	3	7	5	13	89	SS-1	-	7	19	59	10	5	NP	NP	NP	6	A-3a (0)	
(FILL)		4	6	3	10	100	SS-2	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
LOOSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		5	3	3	8	100	SS-3	-	6	17	69	5	3	NP	NP	NP	8	A-3 (0)	
		6	3	3															
		7	3	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
	661.7	8	4																

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>30+65, 112' RT.</u>	EXPLORATION ID <u>B-106-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>668.9 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/29/14</u> END: <u>12/29/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.497213, -81.673404</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
3.0", ASPHALT	668.6	1																
9.0", CONCRETE	667.9	1																
10.0", AGGREGATE BASE	667.1	2																
MEDIUM DENSE, BROWN AND GRAY, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, SS-1 CONTAINS NO RECOVERY, DAMP (FILL)	663.9	3	8	6	14	0	SS-1	-	-	-	-	-	-	-	-	-		
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO DAMP	661.5	5	8	5	13	11	SS-2	-	-	-	-	-	-	-	-	6	A-3a (V)	
	660.9	6	3	2	6	100	SS-3	-	0	2	77	13	8	NP	NP	NP	12	A-3a (0)
	661.5	7	3	3	8	100	SS-4A	-	-	-	-	-	-	-	-	-	9	A-3a (V)
MEDIUM STIFF, BROWN MOTTLED WITH GRAY, SILT AND CLAY , LITTLE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, MOIST	660.9	8	3	3			SS-4B	-	0	1	19	56	24	29	18	11	24	A-6a (8)

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>31+91, 37' LT.</u>	EXPLORATION ID <u>B-107-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>668.8 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>12/29/15</u> END: <u>12/29/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.497575, -81.673961</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
4.0", ASPHALT	668.8																		
10.0", CONCRETE	668.5	1																	
10.0", GRANULAR BASE	667.6	2																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE GRAVEL, TRACE CLAY, DAMP	666.8	3	5	22	100	SS-1	-	9	11	51	22	7	NP	NP	NP	10	A-3a (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	665.3	4	9	10	56	SS-2	-	-	-	-	-	-	-	-	-	9	A-3 (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	
		5	3																<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>
		6	4	10	100	SS-3	-	0	7	85	6	2	NP	NP	NP	7	A-3 (0)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	
	660.8	7	3	4	100	SS-4	-	-	-	-	-	-	-	-	-	5	A-3 (V)	<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	
		8	5	12	100													<L> >L> <L> >L> <L> >L> <L> >L> <L> >L>	

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>53+98, 9' LT.</u>	EXPLORATION ID <u>B-108-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>671.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.499148, -81.673887</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.0", ASPHALT	671.6																	
12.0", CONCRETE	671.3	1																
8.0", GRANULAR BASE	670.3	2																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL) @3.5'; SS-2 CHANGES TO LIGHT BROWN	669.6	3	2	11	100	SS-1	-	8	24	53	8	7	NP	NP	NP	7	A-3a (0)	<L> >L>
		4	3	5	13	100	SS-2	-	-	-	-	-	-	-	-	5	A-3a (V)	<L> >L>
		5	5	5	14	100	SS-3	-	-	-	-	-	-	-	-	5	A-3a (V)	<L> >L>
	665.1	6	6	5	14	100	SS-3	-	-	-	-	-	-	-	-	5	A-3a (V)	<L> >L>
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)	663.6	7	4	11	100	SS-4	-	0	8	86	3	3	NP	NP	NP	5	A-3 (0)	<L> >L>
		8	4	4	11	100	SS-4	-	0	8	86	3	NP	NP	NP	5	A-3 (0)	<L> >L>
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>37+53, 76' RT.</u>	EXPLORATION ID <u>B-109-0-14</u>
TYPE: <u>SUBGRADE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>E 22ND ST</u>	PAGE 1 OF 1
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>669.6 (MSL)</u> EOB: <u>8.0 ft.</u>	
START: <u>3/11/15</u> END: <u>3/11/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.499682, -81.674243</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
8.0", ASPHALT	669.6																	
16.0", GRANULAR BASE	669.0	1																
LOOSE, ORANGISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)	667.4	2	2	5	100	SS-1	-	5	35	43	11	6	NP	NP	NP	9	A-3a (0)	<L> <L> <L>
	664.6	3	3	8	100	SS-2	-	-	-	-	-	-	-	-	-	6	A-3a (V)	<L> <L> <L>
MEDIUM DENSE, ORANGISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	663.1	4	3	11	100	SS-3	-	40	16	38	4	2	NP	NP	NP	6	A-1-b (0)	<L> <L> <L>
	661.6	5	4	9	100	SS-4	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<L> <L> <L>
LOOSE, ORANGISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (FILL)	661.6	6	3															<L> <L> <L>
		7																<L> <L> <L>
		8																<L> <L> <L>
		EOB																<L> <L> <L>

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:14 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 978+48, 3' LT.		START: 11/17/14		END: 1/18/14		PG 2 OF 2		B-110-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 648.8	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
											GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, SS-12 CONTAINS WOOD FRAGMENTS, WET			648.8	31	7	8	24	100	SS-10	-	-	-	-	-	-	-	-	25	A-3a (V)			
				32																		
				33																		
				34																		
@35.0'; SS-13 BECOMES GRAY			640.3	35	4	4	20	100	SS-11	-	0	0	68	29	3	NP	NP	NP	22	A-3a (0)		
				36	9																	
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			633.4	37																		
				38																		
				39																		
				40	4	5	21	100	SS-12	-	0	0	46	48	6	NP	NP	NP	26		A-4a (4)	
MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET			630.3	41																		
				42																		
			630.3	45	3	8	27	100	SS-13A	-	-	-	-	-	-	-	-	21	A-4a (V)			
				46	10						SS-13B	-	-	-	-	-	-	-	-		22	A-3a (V)
DENSE, GRAYISH BROWN, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP TO WET			617.3	47																		
				48																		
				49																		
				50	7	10	32	100	SS-15	-	0	0	7	76	17	25	19	6	18		A-4b (8)	
			617.3	51																		
				52																		
			617.3	55	11	13	44	100	SS-16	-	-	-	-	-	-	-	-	20	A-4b (V)			
				56	16																	
			617.3	57																		
				58																		
			617.3	59																		
				60																		
			617.3	61	12	15	47	100	SS-17	-	-	-	-	-	-	-	-	26	A-4b (V)			
				61	16																	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 3.0' DURING DRILLING. CAVE DEPTH 5.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 980+67, 13' LT.		START: 11/6/14		END: 11/7/14		PG 2 OF 2		B-111-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 652.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE, GRAYISH BROWN AND BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)			652.6	31	6	17	78	SS-13	-	0	8	73	14	5	NP	NP	NP	24	A-3a (0)				
				32	7																		
				33																			
				34																			
				35	5																		
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			644.3	36	10	27	100	SS-14	-	-	-	-	-	-	-	-	-	27	A-3a (V)				
				37	11																		
				38																			
				39																			
				40	4																		
SOFT TO VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			634.3	41	7	19	100	SS-15	-	1	0	61	34	4	NP	NP	NP	26	A-4a (1)				
				42	8																		
				43																			
				44																			
				45	4																		
@55.0': SS-18 AND SS-19 CONTAIN FEW SILTY CLAY LENSES			621.1	46	7	25	100	SS-16	-	-	-	-	-	-	-	-	-	29	A-4a (V)				
				47	12																		
				48																			
				49																			
				50	11																		
			621.1	51	16	45	100	SS-17	0.50	-	-	-	-	-	-	-	-	22	A-4b (V)				
				52	19																		
				53																			
				54																			
				55	18																		
			621.1	56	7	19	100	SS-18	1.75	1	0	7	67	25	25	18	7	23	A-4b (8)				
				57	8																		
				58																			
				59																			
				60	10																		
			621.1	61	11	30	100	SS-19	3.10	-	-	-	-	-	-	-	21	A-4b (V)					
			621.1	61	12																		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 30.5' DURING DRILLING, 37.1' UPON COMPLETION. CAVE DEPTH 28.6'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>1185+55, 65' RT.</u>	EXPLORATION ID <u>B-112-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C.PIERCE III</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP H6</u>	
PID: <u>82380</u> SFN: <u></u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>672.0 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>11/19/14</u> END: <u>11/19/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.494820, -81.676621</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
5.0", TOPSOIL	672.0																		
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS TILE FRAGMENTS AND FEW ROOTS, MOIST	671.6	1	2	9	44	SS-1	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<<>>>>
(FILL)	670.0	2																	<<<<>>>>
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, SS-2 CONTAINS FEW ROOTS, DAMP		3	3	11	44	SS-2	-	4	11	72	8	5	NP	NP	NP		8	A-3a (0)	<<<<>>>>
		4																	<<<<>>>>
		5	2	8	100	SS-3	-	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<<<<>>>>
		6																	<<<<>>>>
		7	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<<<<>>>>
		8																	<<<<>>>>
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	662.5	9	3	3															<<<<>>>>
		10	4	9	35	100	SS-5	-	-	-	-	-	-	-	-	-	6	A-1-b (V)	<<<<>>>>
		11																	<<<<>>>>
		12	8	9	26	100	SS-6	-	26	47	18	7	2	NP	NP	NP	4	A-1-b (0)	<<<<>>>>
		13																	<<<<>>>>
DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	657.5	14	8	10	32	100	SS-7	-	-	-	-	-	-	-	-	-	4	A-3a (V)	<<<<>>>>
		15																	<<<<>>>>
		16	8	11	30	100	SS-8	-	-	-	-	-	-	-	-	-	5	A-3a (V)	<<<<>>>>
		17																	<<<<>>>>
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, WET	652.5	18	8	9															<<<<>>>>
		19																	<<<<>>>>
		20	11	7	14	100	SS-9	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	<<<<>>>>
		21																	<<<<>>>>
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET	650.0	22	3	3	15	100	SS-10	-	-	-	-	-	-	-	-	-	22	A-3 (V)	<<<<>>>>
		23																	<<<<>>>>
MEDIUM STIFF, GRAYISH BROWN, SANDY SILT , SOME CLAY, TRACE GRAVEL, (SILT AND CLAY INTERBEDDED WITH FINE SAND AND SILT) CONTAINS NO INTACT SOIL FOR HP READINGS, WET	647.5	24	3	2	8	100	SS-11	-	0	1	36	42	21	23	16	7	31	A-4a (6)	<<<<>>>>
		25																	<<<<>>>>
MEDIUM DENSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET	645.0	26	3	3															<<<<>>>>
		27																	<<<<>>>>
		28	5	7	26	100	SS-12	-	-	-	-	-	-	-	-	-	17	A-3a (V)	<<<<>>>>
		29																	<<<<>>>>

W 653.0

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1185+55, 65' RT.		START: 11/19/14		END: 11/19/14		PG 2 OF 2		B-112-0-14								
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
											GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET <i>(continued)</i> @30.0'; SS-13 BECOMES BROWN				642.0	31	5 7 8	23	100	SS-13	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<V>	
				638.7	32																	
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET				638.7	33																	<V>
					34																	
@45.0'; SS-16 (SILT AND CLAY INTERBEDDED WITH FINE SAND AND SILT)				623.7	35	6 11 16	41	100	SS-14	-	1	8	46	39	6	NP	NP	NP	21	A-4a (2)	<V>	
					36																	
VERY STIFF TO HARD, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP				623.7	37																	<V>
					38																	
@55.0'; SS-18 TO SS-19 BECOME GRAYISH BROWN				610.5	39																	<V>
					40																	
				610.5	41	7 10 10	30	100	SS-15	-	2	4	56	33	5	NP	NP	NP	19	A-4a (1)	<V>	
					42																	
				610.5	43																	<V>
					44																	
				610.5	45	4 6 8	21	100	SS-16	-	-	-	-	-	-	-	-	-	18	A-4a (V)	<V>	
					46																	
				610.5	47																	<V>
					48																	
				610.5	49																	<V>
					50																	
				610.5	51	4 6 9	23	100	SS-17	2.10	0	0	6	73	21	26	17	9	19	A-4b (8)	<V>	
					52																	
				610.5	53																	<V>
					54																	
				610.5	55	8 10 13	35	100	SS-18	4.50	-	-	-	-	-	-	-	-	17	A-4b (V)	<V>	
					56																	
				610.5	57																	<V>
					58																	
				610.5	59																	<V>
					60																	
				610.5	61	9 14 17	47	100	SS-19	4.50	-	-	-	-	-	-	-	-	16	A-4b (V)	<V>	
					61																	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 19.0' DURING DRILLING. CAVE DEPTH 22.1'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>		DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>			DRILL RIG: <u>CME 45B</u>			STATION / OFFSET: <u>1187+81, 26' RT.</u>			EXPLORATION ID <u>B-113-0-14</u>								
TYPE: <u>RETAINING WALL</u>		SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>			HAMMER: <u>CME AUTOMATIC</u>			ALIGNMENT: <u>RAMP H6</u>			PAGE 1 OF 2								
PID: <u>82380</u> SFN: _____		DRILLING METHOD: <u>3.25" HSA</u>			CALIBRATION DATE: <u>1/26/14</u>			ELEVATION: <u>677.1 (MSL)</u> EOB: <u>61.5 ft.</u>			LAT / LONG: <u>41.495295, -81.676213</u>								
START: <u>11/19/14</u> END: <u>11/19/14</u>		SAMPLING METHOD: <u>SPT / ST</u>			ENERGY RATIO (%): <u>77.4</u>														
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
4.0", TOPSOIL	676.8		2																
LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, CONTAINS FEW ROOTS, DAMP (FILL)	675.1	1	2	6	56	SS-1	-	-	-	-	-	-	-	-	-	9	A-3a (V)	< < < <	
LOOSE, DARK GRAYISH BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS TILE FRAGMENTS AND CINDERS, WET (FILL)	672.6	3	5	10	94	SS-2	-	38	25	23	9	5	NP	NP	NP	16	A-1-b (0)	< < < <	
VERY LOOSE, DARK GRAYISH BROWN AND BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, SS-3 CONTAINS TILE AND GLASS FRAGMENTS AND CINDERS, WET TO MOIST (FILL)		5	0	3	89	SS-3	-	-	-	-	-	-	-	-	-	24	A-3a (V)	< < < <	
@7.5'; SS-4 CONTAINS CINDERS		6	1															< < < <	
@10.0'; SS-5 CHANGES TO BROWN, CONTAINS GLASS FRAGMENTS, CHANGES TO BROWN		8	0	0	78	SS-4	-	-	-	-	-	-	-	-	-	13	A-3a (V)	< < < <	
		9	0															< < < <	
		10	0															< < < <	
	665.1	11	1	1	67	SS-5	-	-	-	-	-	-	-	-	-	11	A-3a (V)	< < < <	
LOOSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP		12																< < < <	
	662.6	13	1	5	89	SS-6	-	0	1	87	8	4	NP	NP	NP	10	A-3a (0)	< < < <	
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP		14	2															< < < <	
	660.1	15	2	5	89	SS-7	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	< < < <	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		16	2															< < < <	
		17																< < < <	
		18	2	12	89	SS-8	-	-	-	-	-	-	-	-	-	5	A-3a (V)	< < < <	
		19	4	5														< < < <	
		20	5	7	19	89	SS-9	-	-	-	-	-	-	-	-	3	A-3a (V)	< < < <	
	655.1	21	7	8														< < < <	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP		22																< < < <	
		23	4	7	21	78	SS-10	-	1	72	21	4	2	NP	NP	NP	4	A-1-b (0)	< < < <
	652.6	24																< < < <	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST		25	4	4	12	39	SS-11	-	-	-	-	-	-	-	-	10	A-3a (V)	< < < <	
		26	4	5														< < < <	
		27																< < < <	
		28	7	10	23	100	SS-12	-	-	-	-	-	-	-	-	9	A-3a (V)	< < < <	
		29	8															< < < <	
																		< < < <	

W 647.1

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 1187+81, 26' RT.		START: 11/19/14		END: 11/19/14		PG 2 OF 2		B-113-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST (continued)			647.1	31	10	45	100	SS-13	-	-	-	-	-	-	-	-	-	12	A-3a (V)	↖ ↗	
				32	18																17
MEDIUM DENSE, GRAYISH BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET			643.8	33		19	39	SS-14	-	-	-	-	-	-	-	-	-	19	A-3 (V)	↖ ↗	
				34	3																6
MEDIUM DENSE, GRAY, SILT , LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, WET			638.8	35		23	100	SS-15	-	-	-	-	-	-	-	-	-	27	A-4b (V)	↖ ↗	
				36	8																8
GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET @46.2'; UNIT WEIGHT: 133.8 PCF @ 21.0% MC			633.8	37		100		ST-16	-	0	1	63	31	5	NP	NP	NP	21	A-4a (0)	↖ ↗	
				38																	
VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			628.8	39		17	100	SS-17	2.60	0	0	7	66	27	29	20	9	20	A-4b (8)	↖ ↗	
				40	3																5
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			618.8	41		17	100	SS-18	2.25	-	-	-	-	-	-	-	-	22	A-4b (V)	↖ ↗	
				42	6																5
			615.6	43		14	100	SS-19	1.00	0	0	1	60	39	33	20	13	24	A-6a (9)	↖ ↗	
				44	4																4
				EOB	45																

NOTES: GROUNDWATER ENCOUNTERED AT 30.0' DURING DRILLING, 32.0' 1 HOUR 45 MINUTES LATER. CAVE DEPTH 28.6'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 1190+07, 37' RT.		START: 11/19/14		END: 11/20/14		PG 2 OF 2		B-114-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 644.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE TO DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			644.5	31	10 13 12	32	100	SS-13	-	-	-	-	-	-	-	-	-	17	A-3a (V)				
				32																			
				33																			
				34																			
				35	6																		
				36	8 14	28	100	SS-14	-	0	1	83	14	2	NP	NP	NP	23	A-3a (0)				
MEDIUM DENSE TO DENSE, GRAY, SILT , SOME SAND, TRACE CLAY, TRACE GRAVEL, WET @44.0'; UNIT WEIGHT: 128.4 PCF @ 26.3% MC			636.2	37																			
				38																			
				39																			
				40	7																		
				41	10 15	32	100	SS-15	-	-	-	-	-	-	-	-	-	24	A-4b (V)				
				42																			
				43																			
				44			100	ST-16	-	1	0	34	56	9	NP	NP	NP	26	A-4b (6)				
				45	5																		
				46	6 9	19	100	SS-17	-	-	-	-	-	-	-	-	-	27	A-4b (V)				
VERY STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			621.2	47																			
				48																			
				49																			
				50	3																		
				51	6 6	15	100	SS-18	-	-	-	-	-	-	-	-	-	26	A-4b (V)				
				52																			
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			616.2	53																			
				54																			
				55	2																		
				56	3 6	12	100	SS-19	3.00	0	0	2	67	31	30	19	11	20	A-6a (8)				
MEDIUM DENSE, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			613.0	57																			
				58																			
				59																			
				60	5																		
				61	9 12	27	100	SS-20	-	-	-	-	-	-	-	-	-	21	A-4b (V)				

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.0' DURING DRILLING, 50.2' UPON COMPLETION. CAVE DEPTH 10.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1274+42, 6' RT.		START: 11/6/14		END: 11/6/14		PG 2 OF 2		B-115-0-14												
MATERIAL DESCRIPTION AND NOTES			ELEV. 640.8	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL					
											GR	CS	FS	SI	CL	LL	PL	PI								
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, WET (continued)			640.8	31	4	8	30	100	SS-13	-	-	-	-	-	-	-	-	-	22	A-3a (V)						
				32																						
				33																						
				34																						
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SILT , TRACE TO LITTLE SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, WET			637.5	35	8	17	46	100	SS-14	-	-	-	-	-	-	-	-	-	24	A-4b (V)						
				36																						
				37																						
				38																						
				39																						
				40	13	15	41	100	SS-15	-	0	1	18	73	8	NP	NP	NP		21		A-4b (8)				
				41		16																				
				42																						
				43																						
				44																						
				45	7	6	17	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		20	A-4b (V)			
				46		7																				
47																										
48																										
49																										
50	8	12	37	100	SS-17	-	1	0	7	77	15	NP	NP	NP		19	A-4b (8)									
51		16																								
52																										
53																										
STIFF TO HARD, GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST TO DAMP			617.5	54																						
				55	8	9	25	100	SS-18	1.80	0	0	2	65	33	29	18	11	22	A-6a (8)						
				56		10																				
				57																						
				58																						
				59																						
				60																						
				61	11	17	38	100	SS-19	4.50	-	-	-	-	-	-	-	-	-	18	A-6a (V)					
609.3		12																								

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 20.0' DURING DRILLING, 17.5' UPON COMPLETION. CAVE DEPTH 18.1'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 1184+46, 21' LT.		START: 11/4/14		END: 11/6/14		PG 2 OF 2		B-116-0-14											
MATERIAL DESCRIPTION AND NOTES			ELEV. 637.7	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
											GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, WET (continued)			629.4	31	5	6	24	100	SS-12	-	0	0	61	33	6	NP	NP	NP	25	A-4a (1)	<V>				
				32																			<V>		
				33																				<V>	
				34																				<V>	
				35	7	8	33	100	SS-13	-	-	-	-	-	-	-	-	-	-	-	-	23	A-4a (V)	<V>	
VERY STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, SS-14 CONTAINS FEW DECAYED ORGANICS, DAMP TO MOIST			629.4	36																		<V>			
				37																				<V>	
				38																					<V>
				39																					<V>
				40	6	6	21	100	SS-14	3.10	-	-	-	-	-	-	-	-	-	-	-	20	A-4b (V)	<V>	
				41		8																			<V>
				42																					<V>
				43																					<V>
				44																					<V>
				45	6	9	35	100	SS-15	4.50	0	0	6	71	23	27	19	8	19	A-4b (8)	<V>				
				46		14																		<V>	
47																					<V>				
48																					<V>				
49																					<V>				
50	9	15	50	100	SS-16	2.60	-	-	-	-	-	-	-	-	-	-	-	20	A-4b (V)	<V>					
51		18																			<V>				
52																					<V>				
53																					<V>				
54																					<V>				
55	5	7	24	100	SS-17	3.50	0	0	1	66	33	28	19	9	20	A-4b (8)	<V>								
56		9																			<V>				
57																					<V>				
58																					<V>				
59																					<V>				
60	6	7	23	100	SS-18	4.50	-	-	-	-	-	-	-	-	-	-	-	19	A-4b (V)	<V>					
61		8																			<V>				
			606.2	EOB																					

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING. CAVE DEPTH 14.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>1185+31, 28' LT.</u>	EXPLORATION ID <u>B-117-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C.PIERCE III</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP H6</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>665.3 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/19/14</u> END: <u>11/20/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.494885, -81.676959</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
3.0", TOPSOIL	665.3																		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (FILL) @2.5'; SS-2 CHANGES TO BROWN AND DARK GRAY	665.1	1	2	15	56	SS-1	-	17	22	47	9	5	NP	NP	NP	10	A-3a (0)	<<<<<<	
		2	4	6														<<<<<<	
		3	4	6	26	100	SS-2	-	-	-	-	-	-	-	-	6	A-3a (V)	<<<<<<	
	660.8	4		11														<<<<<<	
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP TO MOIST		5	4	5	17	100	SS-3	-	37	50	7	4	NP	NP	NP	4	A-1-b (0)	<<<<<<	
		6	5	6														<<<<<<	
		7																<<<<<<	
		8	8	12	38	100	SS-4	-	-	-	-	-	-	-	-	4	A-1-b (V)	<<<<<<	
		9		13														<<<<<<	
@10.0'; SS-5 BECOMES BROWN AND GRAY		10	6	6	23	100	SS-5	-	-	-	-	-	-	-	-	10	A-1-b (V)	<<<<<<	
		11		9														<<<<<<	
@12.5'; SS-6 BECOMES LOOSE		12																<<<<<<	
		13	4	2	5	100	SS-6	-	-	-	-	-	-	-	-	11	A-1-b (V)	<<<<<<	
	650.8	14		1														<<<<<<	
DENSE, BROWN AND GRAY, FINE SAND , LITTLE COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, WET		15	5	8	30	100	SS-7	-	13	13	68	5	1	NP	NP	NP	17	A-3 (0)	<<<<<<
	648.3	16		12														<<<<<<	
MEDIUM DENSE TO DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, WET		17																<<<<<<	
		18	4	5	17	100	SS-8	-	-	-	-	-	-	-	-	20	A-3a (V)	<<<<<<	
		19		6														<<<<<<	
		20																<<<<<<	
		21	5	5	17	100	SS-9	-	-	-	-	-	-	-	-	16	A-3a (V)	<<<<<<	
		22		6														<<<<<<	
		23	6	7	30	100	SS-10	-	-	-	-	-	-	-	-	17	A-3a (V)	<<<<<<	
	640.8	24		13														<<<<<<	
MEDIUM DENSE TO VERY DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET		25	4	5	24	100	SS-11	-	-	-	-	-	-	-	-	24	A-4a (V)	<<<<<<	
		26		11														<<<<<<	
		27																<<<<<<	
		28	12	15	50	100	SS-12	-	0	1	59	34	6	NP	NP	NP	20	A-4a (1)	<<<<<<
		29		18														<<<<<<	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 1185+31, 28' LT.		START: 11/19/14		END: 11/20/14		PG 2 OF 2		B-117-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 635.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE TO VERY DENSE, GRAYISH BROWN, SANDY SILT, TRACE CLAY, TRACE GRAVEL, WET <i>(continued)</i>			632.1	31	6 8 10	27	100	SS-13	-	-	-	-	-	-	-	-	-	28	A-4a (V)			
				32																		
				33																		
VERY STIFF TO HARD, GRAYISH BROWN, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, MOIST			622.0	34																		
				35	6 8 10	27	100	SS-14	2.20	-	-	-	-	-	-	-	-	-	20		A-4b (V)	
				36																		
				37																		
				38																		
				39																		
				40	7 8 10	27	100	SS-15	4.50	-	-	-	-	-	-	-	-	-	-		17	A-4b (V)
VERY STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST @46.7'; UNIT WEIGHT 130.1 PCF @ 23.1% MC			612.0	41																		
				42																		
				43																		
				44																		
				45																		
				46		100	ST-16	2.50	0	0	0	59	41	31	19	12	23	A-6a (9)				
				47																		
				48																		
				49																		
				50	7 7 9	24	100	SS-17	4.50	-	-	-	-	-	-	-	-	-	-		21	A-6a (V)
				51																		
VERY STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP			603.8	52																		
				53																		
				54																		
				55	4 6 9	23	100	SS-18	-	0	0	1	71	28	28	18	10	18	A-4b (8)			
				56																		
				57																		
			EOB	58																		
				59																		
				60	5 9 11	30	100	SS-19	-	-	-	-	-	-	-	-	-	-		17	A-4b (V)	
				61																		

NOTES: GROUNDWATER ENCOUNTERED AT 7.5' DURING DRILLING. CAVE DEPTH 9.8'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>1078+80, 53' LT.</u>	EXPLORATION ID <u>B-118-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>INTERIM RAMP H5</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>691.8 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/17/14</u> END: <u>11/17/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.492970, -81.676930</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (FILL)	691.8	1																
	688.6	2																
DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, DAMP (FILL)	687.3	3	6	30	94	SS-1A	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
		4	8			SS-1B	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
DENSE TO VERY DENSE, BROWN AND DARK GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, SS-2 CONTAINS BRICK AND ASPHALT FRAGMENTS, DAMP TO MOIST (FILL)		5	12	89	100	SS-2	-	19	13	40	19	9	NP	NP	NP	9	A-3a (0)	
@7.5'; SS-3 TO SS-6 CHANGES TO BROWN, CONTAINS BRICK FRAGMENTS		6	28															
		7	31															
		8	9	56	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-3a (V)	
		9	15															
		10	22															
		11	9	35	100	SS-4	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
		12	11															
		13	12															
		14	18	35	100	SS-5	-	10	25	50	11	4	NP	NP	NP	7	A-3a (0)	
		15	11															
@15.0'; SS-6 CHANGES TO SOME GRAVEL		16	12															
		17	30	65	94	SS-6	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
	674.8	18	17															
MEDIUM DENSE, ORANGISH BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP		19	26															
		20	3	15	100	SS-7	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		21	4															
		22	6															
	669.8	23	4	14	89	SS-8	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DRY TO DAMP		24	3															
		25	4	15	100	SS-9	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
		26	4															
		27	6															
		28	5	14	100	SS-10	-	1	7	87	3	2	NP	NP	NP	5	A-3 (0)	
		29	4															
	662.3	30	5	14	94	SS-11	-	-	-	-	-	-	-	-	-	8	A-3 (V)	

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1078+80, 53' LT.		START: 11/17/14		END: 11/17/14		PG 2 OF 2		B-118-0-14								
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
											GR	CS	FS	SI	CL	LL	PL	PI				
STIFF, BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)				661.8	31	7	17	94	SS-12	1.25	0	0	2	67	31	33	20	13	27	A-6a (9)	↖ ↗ ↘ ↙	
						5																6
						32																
						33																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, SOME SILT, TRACE CLAY, TRACE GRAVEL, DAMP				658.5	34																↖ ↗ ↘ ↙	
						35	5															
						36	5	7														
						37																
						38																
						39																
						40	8															
						41	14	12														
						42																
						43																
						44																
						45	7															
						46	12	14														
						47																
@40.0': SS-14 TO SS-16 BECOME DENSE, WET				646.8	40																↖ ↗ ↘ ↙	
						41	14	12														
						42																
						43																
						44																
						45	7															
						46	12	14														
						47																
						48																
						49																
						50	7															
51	12	14																				
52																						
@45.0': SS-15 AND SS-16 BECOME GRAY				646.8	45																↖ ↗ ↘ ↙	
						46	12	14														
						47																
						48																
						49																
						50	7															
						51	12	14														
						52																
						53																
						54																
DENSE, GRAY, SANDY SILT, TRACE CLAY, TRACE GRAVEL, WET				638.5	55																↖ ↗ ↘ ↙	
						56	8	11	16													
						57																
						58																
						59																
						60	10															
						61	10	10														
						61	10	10														
EOB				630.3	61																↖ ↗ ↘ ↙	
						61	10	10														

NOTES: GROUNDWATER ENCOUNTERED AT 45.0' DURING DRILLING. CAVE DEPTH 37.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55X</u>	STATION / OFFSET: <u>1080+66, 51' LT.</u>	EXPLORATION ID <u>B-119-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>INTERIM RAMP H5</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>684.5 (MSL)</u> EOB: <u>62.5 ft.</u>	PAGE 1 OF 3
START: <u>4/8/15</u> END: <u>4/8/15</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>81.2</u>	LAT / LONG: <u>41.493451, -81.677288</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
STIFF TO VERY STIFF, BROWN, GRAY, AND GRAYISH BROWN, SILTY CLAY , SOME SAND, TRACE GRAVEL, CONTAINS MANY ROOTS, DAMP TO MOIST (FILL)	684.5	1	2	5	83	SS-1	2.00	-	-	-	-	-	-	-	-	-	18	A-6b (V)	<<<<<<	
		2	2																<<<<<<	
		3	2	5	12	100	SS-2	1.25	7	9	18	35	31	38	22	16	25	A-6b (9)	<<<<<<	
		4	4																<<<<<<	
VERY STIFF, GRAYISH BROWN, SILT AND CLAY , SOME SAND, TRACE GRAVEL, SS-3 CONTAINS BRICK FRAGMENTS, DAMP (FILL) @7.5'; SS-4 CONTAINS GLASS	680.0	5	3	6	19	100	SS-3	2.10	-	-	-	-	-	-	-	-	14	A-6a (V)	<<<<<<	
		6	8																<<<<<<	
		7																	<<<<<<	
		8	3	39	31	95	83	SS-4	2.20	-	-	-	-	-	-	-	15	A-6a (V)	<<<<<<	
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	674.7	9																	<<<<<<	
		10																	<<<<<<	
		11	3	5	6	15	100	SS-5	-	-	-	-	-	-	-	-	10	A-3 (V)	<<<<<<	
		12																	<<<<<<	
		13	4	5	6	15	100	SS-6	-	4	2	84	5	5	NP	NP	NP	10	A-3 (0)	<<<<<<
		14																	<<<<<<	
		15																	<<<<<<	
		16	3	4	5	12	100	SS-7	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<<<<<<
		17																	<<<<<<	
		18	4	4	5	12	100	SS-8	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<<<<<<
		19																	<<<<<<	
	MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, DAMP	664.5	20	4	8	4	16	100	SS-9	-	-	-	-	-	-	-	-	8	A-3a (V)	<<<<<<
662.0		21																<<<<<<		
MEDIUM DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET		22																<<<<<<		
		23	3	3	5	11	100	SS-10	-	0	6	31	43	20	20	15	5	19	A-4a (6)	<<<<<<
		24																<<<<<<		
		25																<<<<<<		
MEDIUM DENSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP		26	3	4	12	22	100	SS-11	-	-	-	-	-	-	-	-	22	A-4a (V)	<<<<<<	
	657.0	27																<<<<<<		
		28	4	8	13	28	100	SS-12	-	-	-	-	-	-	-	-	6	A-3a (V)	<<<<<<	
		29															<<<<<<			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1080+66, 51' LT.		START: 4/8/15		END: 4/8/15		PG 2 OF 3		B-119-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN AND GRAY, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (continued)			654.5	31	6	27	100	SS-13	-	1	6	82	8	3	NP	NP	NP	8	A-3a (0)	↖ ↗
			650.7	32	11															
MEDIUM DENSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET			649.0	33																↖ ↗
				34																
DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			645.7	35	4	15	100	SS-14	-	-	-	-	-	-	-	-	-	25	A-4a (V)	↖ ↗
				36	5															
DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			640.7	37																↖ ↗
				38																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	39	5	45	100	SS-15	-	-	-	-	-	-	-	-	-	17	A-3a (V)	↖ ↗
				40	13															
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	41																↖ ↗
				42																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	43	8	37	100	SS-16	-	0	1	48	46	5	NP	NP	NP	20	A-4a (3)	↖ ↗
				44	12															
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	45																↖ ↗
				46																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	47	7	35	100	SS-17	-	-	-	-	-	-	-	-	-	28	A-4a (V)	↖ ↗
				48	10															
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	49																↖ ↗
				50																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	51	11	31	100	SS-18	-	-	-	-	-	-	-	-	-	24	A-4a (V)	↖ ↗
				52	9															
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	53																↖ ↗
				54																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	55																↖ ↗
				56																
DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			640.7	57																↖ ↗
				58																
GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			625.7	59																↖ ↗
				60																
GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			625.7	61																↖ ↗
				62			83	SS-19	1.50	0	1	9	59	31	27	18	9	27	A-4b (8)	

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 1080+66, 51' LT.	START: 4/8/15	END: 4/8/15	PG 3 OF 3	B-119-0-14												
MATERIAL DESCRIPTION AND NOTES		ELEV. 622.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
									GR	CS	FS	SI	CL	LL	PL	PI			
@62.0'; UNIT WEIGHT: 125.3 PCF @ 27.3% MC		622.0	EOB															< . . >	

NOTES: GROUNDWATER ENCOUNTERED AT 35.5' DURING DRILLING. CAVE IN DEPTH 32.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 984+18, 0' RT. START: 5/18/21 END: 5/18/21 PG 2 OF 2 B-120-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 638.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)	633.6	31	4 7 10	25	100	SS-11	-	0	0	74	23	3	NP	NP	NP	24	A-3a (0)		
		32																	
		33																	
		34	5 7 11	27	100	SS-12	-	-	-	-	-	-	-	-	-	-	25	A-3a (V)	
		EOB 35																	

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16-28 (CCG3A - MOD#:

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>203+11, 3' LT.</u>	EXPLORATION ID
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST INTERIM</u>	B-120-2-20
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>678.9 (MSL)</u> EOB: <u>30.5 ft.</u>	PAGE
START: <u>5/19/21</u> END: <u>5/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.494953, -81.677411</u>	1 OF 2

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY DENSE TO MEDIUM DENSE, BROWN AND YELLOWISH BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL AND STONE FRAGMENTS, LITTLE SILT, TRACE TO LITTLE CLAY, CONTAINS RED BRICK FRAGMENTS, WET (FILL)	678.9	1																
		2																
		3	8	23	77	100	SS-1	-	16	12	55	12	5	NP	NP	NP	14	A-3a (0)
		4		29														
		5	2	8	30	100	SS-2	-	22	13	37	17	11	NP	NP	NP	14	A-3a (0)
LOOSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	671.9	6																
		7																
		8	4	10	31	100	SS-3	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		9		11														
		10	2	4	13	100	SS-4	-	-	-	-	-	-	-	-	-	6	A-3a (V)
		11		5														
		12																
		13	4	3	10	100	SS-5	-	0	13	74	10	3	NP	NP	NP	8	A-3a (0)
		14		4														
		15																
MEDIUM DENSE, BROWNISH GRAY, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP	656.9	16	4	5	16	100	SS-6	-	-	-	-	-	-	-	-	-	7	A-3a (V)
		17		6														
		18	2	3	9	100	SS-7	-	-	-	-	-	-	-	-	-	8	A-3a (V)
		19		3														
		20	2	4	18	100	SS-8	-	-	-	-	-	-	-	-	-	7	A-3a (V)
MEDIUM DENSE, BROWNISH GRAY, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP	654.4	21		8														
		22																
MEDIUM DENSE TO DENSE, BROWNISH GRAY, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, MOIST TO WET	651.9	23	3	10	30	100	SS-9	-	25	44	18	11	2	NP	NP	NP	5	A-1-b (0)
		24		10														
		25	8	12	36	100	SS-10	-	-	-	-	-	-	-	-	-	14	A-3 (V)
		26		12														
		27																
		28	5	6	19	100	SS-11	-	0	4	86	8	2	NP	NP	NP	22	A-3 (0)
		29		7														
		6	7	21	100	SS-12	-	-	-	-	-	-	-	-	-	26	A-3 (V)	

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 203+11, 3' LT.		START: 5/19/21		END: 5/19/21		PG 2 OF 2		B-120-2-20											
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
				648.9			GR	CS	FS	SI	CL	LL	PL	PI	WC	CLASS (GI)	BACK FILL								
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> F.S. 648.4 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> EOB </div>				648.4				7																	
NOTES: GROUNDWATER ENCOUNTERED AT 27.0' DURING DRILLING. HOLE DID NOT CAVE. ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS																									

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / J.GILBERT</u>	DRILL RIG: <u>CME 55X</u>	STATION / OFFSET: <u>990+36, 22' LT.</u>	EXPLORATION ID <u>B-122-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP H5</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>676.0 (MSL)</u> EOB: <u>112.0 ft.</u>	PAGE 1 OF 4
START: <u>4/9/15</u> END: <u>4/10/15</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>81.2</u>	LAT / LONG: <u>41.496213, -81.677011</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC				
MEDIUM DENSE TO DENSE, DARK BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP (FILL)	676.0	1	5	18	100	SS-1	-	-	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<< < <
		2																		<< < <
		3	9	13	31	100	SS-2	-	14	15	43	20	8	NP	NP	NP		10	A-3a (0)	<< < <
		4		10																<< < <
MEDIUM DENSE, BROWN AND REDDISH BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, DAMP (FILL)	671.5	5	8	7	16	100	SS-3	-	27	23	31	13	6	NP	NP	NP		10	A-1-b (0)	<< < <
LOOSE, GRAY, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET	669.0	6																		<< < <
	667.5	7																		<< < <
LOOSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET	666.5	8	3	2	7	100	SS-4A	-	-	-	-	-	-	-	-	-		19	A-4a (V)	<< < <
		9		3			SS-4B	-	-	-	-	-	-	-	-	-		14	A-3a (V)	<< < <
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP		10	3	4	14	100	SS-5	-	-	-	-	-	-	-	-	-		9	A-3 (V)	<< < <
		11		6																<< < <
		12																		<< < <
		13	4	3	12	100	SS-6	-	4	19	68	6	3	NP	NP	NP		7	A-3 (0)	<< < <
		14		6																<< < <
		15																		<< < <
		16	3	4	8	100	SS-7	-	-	-	-	-	-	-	-	-		11	A-3 (V)	<< < <
		17		2																<< < <
		18	2	2	8	100	SS-8	-	-	-	-	-	-	-	-	-		6	A-3 (V)	<< < <
		19		4																<< < <
		20																		<< < <
		21	4	5	16	100	SS-9	-	-	-	-	-	-	-	-	-		6	A-3 (V)	<< < <
	654.0	22		7																<< < <
SOFT TO MEDIUM STIFF, BROWN, SANDY SILT , SOME CLAY, TRACE GRAVEL, MOIST TO WET		23	2	3	9	83	SS-10	0.50	3	18	39	14	26	19	12	7		16	A-4a (1)	<< < <
		24		4																<< < <
		25																		<< < <
		26	2	4	15	100	SS-11	0.90	-	-	-	-	-	-	-	-		23	A-4a (V)	<< < <
	649.0	27		7																<< < <
STIFF, BROWN, SILT AND CLAY , SOME SAND, LITTLE GRAVEL, MOIST		28																		<< < <
	648.5	29	5	4	14	100	SS-12	1.50	19	22	9	22	28	32	18	14		22	A-6a (4)	<< < <
	646.5			6																<< < <

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 990+36, 22' LT.		START: 4/9/15		END: 4/10/15		PG 3 OF 4		B-122-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 613.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, (INTERBEDDED SILT AND CLAY), MOIST TO WET (continued)			613.9	63																			
				64																			
				65	4																		
				66	6 10	22	100	SS-20	1.80	0	0	1	66	33	28	20	8	23	A-4b (8)				
				67																			
				68																			
				69																			
				70	3																		
				71	5 7	16	100	SS-21	2.20	-	-	-	-	-	-	-	-	21	A-4b (V)				
				72																			
				73																			
				74																			
				75	3																		
				76	5 6	15	100	SS-22	0.75	-	-	-	-	-	-	-	-	27	A-4b (V)				
				77																			
78																							
79																							
80	WOH																						
81	WOH WOH	0	100	SS-23	1.25	-	-	-	-	-	-	-	-	27	A-4b (V)								
82																							
83																							
84																							
85	4																						
86	8 12	27	100	SS-24	4.00	-	-	-	-	-	-	-	-	21	A-4b (V)								
87																							
88																							
89																							
90																							
91						81	SS-25	-	0	0	15	78	7	NP	NP	NP	17	A-4b (8)					
92																							
93																							
94																							

587.7

GRAY, SILT, LITTLE SAND, TRACE CLAY, TRACE GRAVEL, MOIST

@91.5'; UNIT WEIGHT: 123.2 PCF @ 17.9% MC

582.2

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:16 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1077+89, 41' LT.		START: 11/12/14		END: 11/12/14		PG 2 OF 2		B-123-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 663.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP <i>(continued)</i> @30.0'; SS-12 CONTAINS 4.0" SILT AND CLAY SEAM			663.6	31	3	9	100	SS-12	-	-	-	-	-	-	-	-	-	7	A-3a (V)			
				32	4																	
				33																		
MEDIUM DENSE, BROWN MOTTLED WITH GRAY, SILT , "AND" SAND, TRACE CLAY, TRACE GRAVEL, WET			655.1	34																		
				35	8	27	89	SS-13	-	6	30	52	8	4	NP	NP	NP	5	A-3a (0)			
				36	9	12																
MEDIUM DENSE TO DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, WET			650.1	37																		
				38	4	21	100	SS-14	-	0	3	37	50	10	NP	NP	NP	26	A-4b (5)			
				39	7	9																
MEDIUM DENSE TO DENSE, GRAYISH BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, WET			648.6	40																		
				41	6	25	100	SS-15	-	-	-	-	-	-	-	-	-	24	A-3a (V)			
				42	8	11																
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SILT , LITTLE TO SOME SAND, TRACE CLAY, TRACE GRAVEL, WET			640.1	43																		
				44	9	41	100	SS-16	-	-	-	-	-	-	-	-	-	21	A-3a (V)			
				45	15	17																
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SILT , LITTLE TO SOME SAND, TRACE CLAY, TRACE GRAVEL, WET			632.1	46																		
				47	11	37	100	SS-17	-	0	0	40	54	6	NP	NP	NP	23	A-4b (5)			
				48	13	16																
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SILT , LITTLE TO SOME SAND, TRACE CLAY, TRACE GRAVEL, WET			632.1	49																		
				50	7	27	100	SS-18	-	-	-	-	-	-	-	-	-	22	A-4b (V)			
				51	10	11																
				61																		

NOTES: GROUNDWATER ENCOUNTERED AT 45.0' DURING DRILLING. CAVE DEPTH 17.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 410+11, 40' RT. START: 12/4/14 END: 12/5/14 PG 4 OF 4 B-125-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 602.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAYISH BROWN, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST <i>(continued)</i> @106.6'; UNIT WEIGHT: 133.9 PCF @ 18.7% MC		95	5															
		96	11 14	33	100	SS-25	2.70	-	-	-	-	-	-	-	21	A-4b (V)	<V>	
		97																<V>
		98																<V>
		99																<V>
		100																<V>
		101		11 17 22	51	100	SS-26	4.00	-	-	-	-	-	-	20	A-4b (V)	<V>	
		102																<V>
		103																<V>
		104																<V>
		105																<V>
	106				100	ST-27	3.25	0	0	0	74	26	26	19	7	19	A-4b (8)	<V>
	107																	<V>
	108																	<V>
	109																	<V>
	110																	<V>
	111		8 13 17	39	100	SS-28	4.20	-	-	-	-	-	-	19	A-4b (V)	<V>		
	585.6	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 40.0' DURING DRILLING, 50.0' UPON COMPLETION. CAVE DEPTH 45.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 197+41, 84' LT. START: 11/12/14 END: 11/14/14 PG 4 OF 4 B-126-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 596.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAYISH BROWN, SILT, TRACE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)		95	6															
		96	9 18	38	100	SS-27	4.50	-	-	-	-	-	-	-	19	A-4b (V)	<V>	
		97															<V>	
		98															<V>	
		99															<V>	
		100															<V>	
		101	8 16	37	100	SS-28	4.00	-	-	-	-	-	-	-	21	A-4b (V)	<V>	
		102															<V>	
		103															<V>	
		104															<V>	
		105	6 10	26	100	SS-29	1.25	0	0	0	62	38	29	19	10	23	A-4b (8)	<V>
	106																<V>	
	107																<V>	
	108																<V>	
	109																<V>	
	110																<V>	
	111	5 10	23	100	SS-30	3.75	-	-	-	-	-	-	-	24	A-4b (V)	<V>		
	579.2	111	6														<V>	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 40.0' DURING DRILLING. CAVE DEPTH 26.0'.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / JO.GILBERT</u>	DRILL RIG: <u>CME 55X</u>	STATION / OFFSET: <u>199+84, 120' LT.</u>	EXPLORATION ID <u>B-128-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / S.PENCE</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST INTERIM</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>675.4 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/19/14</u> END: <u>11/19/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>81.2</u>	LAT / LONG: <u>41.494133, -81.678006</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE, BROWN AND DARK GRAY, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, MOIST (FILL)	675.4	1	3			SS-1	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<<<<	
	673.4	2	4	9	67														<<<<<<	
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, MOIST @7.5'; SS-4 TO SS-5 (INTERBEDDED WITH SILT)	663.4	3	2			SS-2	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<<<<	
		4	4	5	12	67													<<<<<<	
		5	4	4	11	100	SS-3	-	10	21	54	10	5	NP	NP	NP	11	A-3a (0)	<<<<<<	
		6	4	4	11	100	SS-3	-	10	21	54	10	5	NP	NP	NP	11	A-3a (0)	<<<<<<	
		7	4	4	11	100	SS-3	-	10	21	54	10	5	NP	NP	NP	11	A-3a (0)	<<<<<<	
		8	5	5	16	100	SS-4	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)	<<<<<<
		9	5	7	16	100	SS-4	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)	<<<<<<
		10	3	3	8	100	SS-5	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<<<<<<
		11	3	3	8	100	SS-5	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<<<<<<
		12	3	3	8	100	SS-5	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<<<<<<
STIFF, BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, MOIST TO WET	663.4	13	3	4	14	100	SS-6	-	1	0	6	60	33	27	17	10	24	A-4b (8)	<<<<<<	
		14	4	6	14	100	SS-6	-	1	0	6	60	33	27	17	10	24	A-4b (8)	<<<<<<	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO WET @25.0'; SS-11 TO SS-12 BECOME GRAYISH BROWN @27.5'; SS-12 CONTAINS 1" SEAM OF SANDY SILT	660.0	15	5			SS-7A	-	-	-	-	-	-	-	-	-	-	28	A-4b (V)	<<<<<<	
		16	5	4	12	100	SS-7B	-	-	-	-	-	-	-	-	-	17	A-3a (V)	<<<<<<	
		17	5	4	12	100	SS-7B	-	-	-	-	-	-	-	-	-	17	A-3a (V)	<<<<<<	
		18	6	5	18	100	SS-8	-	-	-	-	-	-	-	-	-	-	12	A-3a (V)	<<<<<<
		19	6	8	18	100	SS-8	-	-	-	-	-	-	-	-	-	-	12	A-3a (V)	<<<<<<
		20	4	7	22	100	SS-9	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<<<<<<
		21	4	9	22	100	SS-9	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<<<<<<
		22	4	9	22	100	SS-9	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<<<<<<
		23	8	9	28	100	SS-10	-	4	35	49	9	3	NP	NP	NP	19	A-3a (0)	<<<<<<	
24	8	12	28	100	SS-10	-	4	35	49	9	3	NP	NP	NP	19	A-3a (0)	<<<<<<			
25	6	4	26	100	SS-11	-	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<<<<<<		
26	6	15	26	100	SS-11	-	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<<<<<<		
27	6	15	26	100	SS-11	-	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<<<<<<		
28	7	11	35	100	SS-12	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<<<<<<		
29	7	15	35	100	SS-12	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<<<<<<		

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 199+84, 120' LT.		START: 11/19/14		END: 11/19/14		PG 2 OF 2		B-128-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO WET (continued)			645.4	31	7 12 15	37	100	SS-13	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<V>
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			642.1	32																<V>
				33																<V>
				34																<V>
				35	6															<V>
				36	10 10	27	100	SS-14	-	1	0	47	46	6	NP	NP	NP	25	A-4a (3)	<V>
				37																<V>
				38																<V>
MEDIUM DENSE, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, INTERBEDDED, WET			637.1	39																<V>
				40	3															<V>
				41	4 7	15	100	SS-15	-	0	0	8	74	18	NP	NP	NP	21	A-4b (8)	<V>
				42																<V>
				43																<V>
				44																<V>
@45.0'; SS-16 BECOMES GRAYISH BROWN				45	12															<V>
				46	9 6	20	100	SS-16	-	-	-	-	-	-	-	-	-	24	A-4b (V)	<V>
				47																<V>
				48																<V>
VERY STIFF, GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, WET			627.1	49																<V>
				50	6															<V>
				51	9 11	27	100	SS-17	-	-	-	-	-	-	-	-	-	28	A-6a (V)	<V>
				52																<V>
				53																<V>
MEDIUM DENSE, GRAYISH BROWN, SILT , LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, WET			622.1	54																<V>
				55	4															<V>
				56	5 6	15	100	SS-18	-	-	-	-	-	-	-	-	-	24	A-4b (V)	<V>
				57																<V>
				58			79	ST-19	-	0	0	12	75	13	NP	NP	NP	18	A-4b (8)	<V>
@58.0'; UNIT WEIGHT: 136.5 PCF @ 18.1% MC				59																<V>
				60	6															<V>
				61	7 10	23	100	SS-20	1.30	-	-	-	-	-	-	-	-	23	A-4b (V)	<V>
			613.9	EOB																<V>

NOTES: GROUNDWATER ENCOUNTERED AT 24.0' DURING DRILLING. CAVE DEPTH 22.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:08 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>30+52, 52' LT.</u>	EXPLORATION ID <u>B-129-1-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>SB E 14TH ST</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>676.2 (MSL)</u> EOB: <u>25.0 ft.</u>	PAGE 1 OF 1
START: <u>5/19/21</u> END: <u>5/19/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.495084, -81.677667</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND , TRACE TO LITTLE SILT, TRACE CLAY, DAMP TO MOIST	676.2																	
		1																
		2																
		3	5	6	18	100	SS-1	-	5	47	27	14	7	NP	NP	NP	8	A-1-b (0)
		4																
		5	5	7	22	39	SS-2	-	-	-	-	-	-	-	-	-	7	A-1-b (V)
		6																
		7																
		8	7	9	33	44	SS-3	-	-	-	-	-	-	-	-	-	8	A-1-b (V)
		9																
		10	8	10	31	28	SS-4	-	-	-	-	-	-	-	-	-	8	A-1-b (V)
		11																
		12																
		13	7	6	19	78	SS-5	-	-	-	-	-	-	-	-	-	8	A-1-b (V)
		14																
		15	6	3	12	56	SS-6	-	-	-	-	-	-	-	-	-	12	A-1-b (V)
		16																
		17																
	18	5	6	21	89	SS-7	-	24	56	13	6	1	NP	NP	NP	5	A-1-b (0)	
	19																	
	20																	
	21	6	7	24	33	SS-8	-	-	-	-	-	-	-	-	-	4	A-1-b (V)	
	22	653.7																
MEDIUM DENSE, BROWNISH GRAY, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET		w 652.7																
	23																	
	24	651.2	8	9	28	100	SS-9	-	2	11	75	8	4	NP	NP	NP	22	A-3a (0)
	25	EOB	10															

NOTES: GROUNDWATER ENCOUNTERED AT 23.5' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:17 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 406+76, 128' LT. START: 1/15/15 END: 1/15/15 PG 4 OF 4 B-131-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 583.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
VERY STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)	+++++	95	7																
		96	9	24	100	SS-25	2.20	-	-	-	-	-	-	-	24	A-4b (V)	<V>		
		97																<V>	
		98																<V>	
		99																<V>	
		100	5																<V>
		101	8	26	100	SS-26	2.20	2	1	4	57	36	27	17	10	20	A-4b (8)	<V>	
		102																	<V>
		103																	<V>
		104																	<V>
STIFF, GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS FEW SILT LENSES, MOIST	574.7	105	10															<V>	
		106	13	42	100	SS-27	1.50	-	-	-	-	-	-	-	26	A-6b (V)	<V>		
		107	19															<V>	
STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, INTERBEDDED, MOIST	569.7	108																<V>	
		109																<V>	
		110	5															<V>	
		111	6	20	100	SS-28	1.50	-	-	-	-	-	-	-	22	A-6a (V)	<V>		
	566.5																<V>		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING, 26.0' UPON COMPLETION. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 406+54, 4' RT.		START: 12/3/14		END: 12/3/14		PG 2 OF 2		B-132-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 668.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
VERY LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST (continued) @35.0'; BECOMES SOME COARSE SAND				31	6 4 5	12	100	SS-13	-	-	-	-	-	-	-	-	11	A-3 (V)					
				32																			
				33																			
				34																			
				35	9																		
				36	10 11	27	100	SS-14	-	8	34	50	6	2	NP	NP	NP	6		A-3 (0)			
				37																			
				38																			
				39																			
				40	9																		
41	5 7	15	100	SS-15	-	-	-	-	-	-	-	-	-	9	A-3 (V)								
42																							
MEDIUM DENSE TO DENSE, GRAY AND BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET @50.0'; SS-17 TO SS-20 BECOMES GRAY @58.9'; UNIT WEIGHT: 121.8 PCF @ 26.8% MC				43																			
				44																			
				45	6																		
				46	11 16	35	100	SS-16	-	-	-	-	-	-	-	-	-	12	A-3a (V)				
				47																			
				48																			
				49																			
				50	6																		
				51	10 11	27	100	SS-17	-	-	-	-	-	-	-	-	-	23	A-3a (V)				
				52																			
53																							
54																							
55	5																						
56	11 13	31	100	SS-18	-	-	-	-	-	-	-	-	-	24	A-3a (V)								
57																							
58																							
59							100	ST-19	-	0	1	86	12	1	NP	NP	NP	27	A-3a (0)				
60																							
61	8																						
	15 21	46	100	SS-20	-	-	-	-	-	-	-	-	-	25	A-3a (V)								

NOTES: GROUNDWATER ENCOUNTERED AT 49.0' DURING DRILLING, 52.7' UPON COMPLETION. CAVE DEPTH 42.3'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 408+56, 22' RT.		START: 12/2/14		END: 12/2/14		PG 2 OF 2		B-134-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (continued)			667.9	31	5	12	94	SS-12	-	-	-	-	-	-	-	-	-	6	A-3a (V)	↖ ↗
				32	4															
				33	5															
				34																
				35																
LOOSE, BROWN, SILT , TRACE SAND, TRACE CLAY, TRACE GRAVEL, CONTAINS 2.5" SEAM OF "SILT AND CLAY", WET			661.9	36	4	9	100	SS-13A	-	-	-	-	-	-	-	-	-	5	A-3a (V)	↖ ↗
				37	3			SS-13B	-	-	-	-	-	-	-	-	-	-	30	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET @45.0'; SS-15 BECOMES GRAYISH BROWN @50.0'; SS-16 TO SS-19 BECOME GRAY			659.6	38		26	100	SS-14	-	-	-	-	-	-	-	-	-	6	A-3a (V)	↖ ↗
				39																
				40	4															
				41	7															
				42	13															
				43																
				44																
				45	11															
				46	13															
				47	18															
				DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET @58.6'; UNIT WEIGHT: 123.6 PCF @ 25.9% MC																
49																				
50	4																			
51	9																			
52	11																			
53																				
54																				
55	6																			
56	11																			
57	14																			
			636.4				58		31	100	ST-18	-	0	0	54	43	3	NP	NP	NP
				59																
				60	4															
				61	10															
				61	14															

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 45.0' DURING DRILLING. CAVE DEPTH 38.2'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:25 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>409+36, 72' LT.</u>	EXPLORATION ID <u>B-134-1-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>677.8 (MSL)</u> EOB: <u>30.0 ft.</u>	PAGE 1 OF 1
START: <u>3/4/21</u> END: <u>3/4/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.492418, -81.677347</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
3.0" TOPSOIL (DRILLERS DESCRIPTION) DENSE, BROWN, STONE FRAGMENTS , SOME SAND, LITTLE SILT, TRACE CLAY, CONTAINS RED BRICK FRAGMENTS, DAMP (FILL)	677.8 677.5																	
		1																
		2																
		3	5	10	33	78	SS-1	-	-	-	-	-	-	-	-	13	A-1-a (V)	
	673.3	4																
LOOSE, BROWN, STONE FRAGMENTS WITH SAND AND SILT , TRACE CLAY, CONTAINS RED BRICK FRAGMENTS, DAMP (FILL)	670.8	5	2	2	6	33	SS-2	-	32	14	27	18	9	NP	NP	NP	12	A-2-4 (0)
		6																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	670.8	7																
		8	5	4	13	100	SS-3	-	-	-	-	-	-	-	-	9	A-3a (V)	
	668.3	9																
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP TO MOIST		10	3	3	10	100	SS-4	-	-	-	-	-	-	-	-	10	A-1-b (V)	
		11																
		12																
		13	1	3	10	100	SS-5	-	-	-	-	-	-	-	-	8	A-1-b (V)	
		14																
	661.8	15	2	2	7	100	SS-6A	-	-	-	-	-	-	-	-	18	A-1-b (V)	
STIFF, BROWN, CLAY , "AND" SILT, LITTLE SAND, TRACE GRAVEL, MOIST	660.8	16					SS-6B	1.25	-	-	-	-	-	-	-	27	A-7-6 (V)	
		17																
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, MOIST TO WET	660.8	18	2	4	15	100	SS-7	-	-	-	-	-	-	-	-	12	A-3a (V)	
		19																
		20	2	3	16	100	SS-8A	-	-	-	-	-	-	-	-	26	A-3a (V)	
	656.8	21					SS-8B	4.50	1	1	7	71	20	28	22	6	21	A-4b (8)
HARD, BROWN, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP	654.5	22																
		23																
MEDIUM DENSE, BROWN BECOMING GRAY, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS IRON STAINING, MOIST TO WET	654.5	24																
		25	2	5	19	100	SS-9	-	-	-	-	-	-	-	-	12	A-3a (V)	
		26																
		27																
		28																
	649.3	29	3	6	24	100	SS-10	-	-	-	-	-	-	-	-	23	A-3a (V)	
	647.8																	

NOTES: GROUNDWATER ENCOUNTERED AT 28.5' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 17.0' SOUTHWEST DUE TO OVERHEAD OBSTRUCTION.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 410+84, 18' LT. START: 3/10/21 END: 3/10/21 PG 4 OF 4 B-134-2-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 581.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF, GRAY, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)	575.4	95	3															
		96	5	21	100	SS-23	2.75	0	0	1	50	49	29	19	10	23	A-4b (8)	
		97																
		98																
		99	5															
		100	7	27	100	SS-24	3.00	-	-	-	-	-	-	-	21	A-4b (V)		
		EOB	11															

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 220 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 412+07, 14' RT.		START: 3/25/21		END: 3/26/21		PG 2 OF 4		B-134-3-20							
MATERIAL DESCRIPTION AND NOTES			ELEV. 648.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, SS-9 CONTAINS IRON STAINING, MOIST TO WET (<i>continued</i>) @30.0'; SS-10 TO SS-12 BECOME GRAY			648.0	31	4 5 8	19	100	SS-10	-	-	-	-	-	-	-	-	28	A-3a (V)			
				32																	
				33																	
				34																	
				35	2																
				36	8 12	30	100	SS-11	-	-	-	-	-	-	-	-	-	-	28	A-3a (V)	
				37																	
				38																	
				39																	
				40	6																
MEDIUM DENSE TO DENSE, GRAY, SILT , TRACE TO SOME SAND, LITTLE CLAY, TRACE GRAVEL, DAMP TO WET			634.7	41	11 15	39	100	SS-12	-	-	-	-	-	-	-	-	23	A-3a (V)			
				42																	
				43																	
				44																	
				45	2																
				46	4 6	15	100	SS-13	-	0	0	22	61	17	NP	NP	NP	22	A-4b (8)		
				47																	
				48																	
				49																	
				50	7																
51	10 14	36	100	SS-14	-	-	-	-	-	-	-	-	-	17	A-4b (V)						
52																					
53																					
54																					
55	3																				
56	7 7	21	100	SS-15	-	0	0	6	81	13	NP	NP	NP	23	A-4b (8)						
57																					
58																					
59																					
60	2																				
61	3 8	16	100	SS-16	-	-	-	-	-	-	-	-	-	23	A-4b (V)						

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 412+07, 14' RT. START: 3/25/21 END: 3/26/21 PG 4 OF 4 B-134-3-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 583.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)	579.7	95	7															
		96	9 14	34	100	SS-23	4.50	-	-	-	-	-	-	-	20	A-4b (V)		
		97																
STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	568.0	98																
		99																
		100	5															
		101	6 6	18	100	SS-24	1.25	-	-	-	-	-	-	-	25	A-6a (V)		
		102																
		103																
		104																
		105	2															
		106	4 6	15	100	SS-25	1.50	0	1	3	46	50	32	20	12	24	A-6a (9)	
		107																
		108																
		109	5															
		110	6 6	18	100	SS-26	1.25	-	-	-	-	-	-	-	-	27	A-6a (V)	

EOB

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 75 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 413+01, 9' LT.		START: 5/3/21		END: 5/5/21		PG 2 OF 4		B-135-1-20										
MATERIAL DESCRIPTION AND NOTES				ELEV. 649.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED			
											GR	CS	FS	SI	CL	LL	PL	PI						
LOOSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP (<i>continued</i>) @30.0'; BECOMES WET @40.0'; BECOMES GRAY				W 644.8 631.5	31	5 7 9	24	100	SS-11	-	-	-	-	-	-	-	-	-	26	A-3a (V)				
					32																			
					33																			
					34																			
					35	3																		
					36	7 10	25	100	SS-12	-	-	-	-	-	-	-	-	-	-	-	-	26	A-3a (V)	
					37																			
					38																			
					39																			
					40	7																		
41	11 14	37	100	SS-13	-	-	-	-	-	-	-	-	-	-	-	-	24	A-3a (V)						
42																								
43																								
44																								
45	3																							
46	3 4	10	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	-	26	A-3a (V)						
47																								
48																								
49																								
50	2																							
51	5 10	22	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	-	19	A-4b (V)						
52																								
53																								
54																								
55	7																							
56	12 18	45	100	SS-16	-	0	0	14	79	7	NP	NP	NP	21			A-4b (8)							
57																								
58																								
59																								
60	4																							
61	6 8	21	100	SS-17	-	-	-	-	-	-	-	-	-	-	-	-	21	A-4b (V)						

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 413+01, 9' LT.		START: 5/3/21		END: 5/5/21		PG 4 OF 4		B-135-1-20															
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTH		SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED							
				585.5								GR	CS	FS	SI	CL	LL	PL	PI										
VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued) @100.0'; SS-25 BECOMES "AND" CLAY				585.5		95	5																						
						96	8	30	100	SS-24	3.50				0	1	1	67	31	26	19	7	21		A-4b (8)				
						97																							
						98																							
						99																							
						100	8																						
						101	9	30	100	SS-25	2.50					0	1	2	55	42	29	19	10	24		A-4b (8)			
						102																							
						103																							
				MEDIUM STIFF TO STIFF, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, DAMP TO MOIST				576.5		104																			
		105	4					15	100	SS-26	1.25				-	-	-	-	-	-	-	-	-	-	-	21	A-6b (V)		
		106	4					6																					
		107																											
		108																											
		109																											
		110	0					9	100	SS-27	1.00					1	1	2	29	67	39	23	16	29		A-6b (10)			
		111	2					4																					
		112																											
		113																											
		114																											
		115	0	10	100	SS-28	1.25					-	-	-	-	-	-	-	-	-	-	-	27	A-6b (V)					
		116	3	4																									
		117																											
		118																											
		119	0	13	100	SS-29	1.00					-	-	-	-	-	-	-	-	-	-	-	24	A-6b (V)					
		120	3	6																									

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 150 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT FILES\

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>413+71, 14' LT.</u>	EXPLORATION ID: <u>B-136-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	
PID: <u>82380</u> SFN: <u></u>	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>687.3 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE: <u>1 OF 2</u>
START: <u>12/2/14</u> END: <u>12/2/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.493203, -81.678620</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BLACK AND BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS ASPHALT, DAMP (FILL)	687.3	1	10 12	27	78	SS-1	-	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	<<< <<< <<<
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE GRAVEL, TRACE CLAY, CONTAINS BRICK FRAGMENTS, DAMP TO MOIST (FILL)	685.3	2	7 11	36	100	SS-2	-	8	23	57	8	4	NP	NP	NP	12	A-3a (0)	<<< <<< <<<	
@5.0'; SS-3 AND SS-4 CONTAIN BRICK FRAGMENTS		3	9 10	32	100	SS-3	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<<< <<< <<<	
@7.5'; SS-4 CHANGES TO BROWN AND DARK GRAY		4	6 9	27	100	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<< <<< <<<	
DENSE, DARK GRAY AND BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS BRICK AND CONCRETE FRAGMENTS, MOIST (FILL)	677.8	5	18 17	42	100	SS-5	-	33	18	32	12	5	NP	NP	NP	11	A-1-b (0)	<<< <<< <<<	
MEDIUM DENSE TO DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	675.3	6	11 10	30	100	SS-6	-	23	52	11	9	5	NP	NP	NP	7	A-1-b (0)	<<< <<< <<<	
		7	6 7	21	100	SS-7	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	<<< <<< <<<	
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	670.3	8	4 4	12	100	SS-8	-	3	9	84	2	2	NP	NP	NP	6	A-3 (0)	<<< <<< <<<	
		9	4 5	14	100	SS-9	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<<< <<< <<<	
@22.5'; SS-10 BECOMES DENSE		10	7 11	33	100	SS-10	-	-	-	-	-	-	-	-	-	5	A-3 (V)	<<< <<< <<<	
MEDIUM DENSE, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, CONTAINS A 2.0" SILT AND CLAY SEAM, WET	662.8	11	4 2	11	100	SS-11	-	0	1	41	47	11	NP	NP	NP	24	A-4a (5)	<<< <<< <<<	
		12	4 5	23	100	SS-12	2.25	0	5	36	41	18	19	13	6	17	A-4a (5)	<<< <<< <<<	
VERY STIFF, BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, INTERBEDDED SILT AND CLAY WITH SAND, MOIST	660.3	13	4 5	23	100	SS-12	2.25	0	5	36	41	18	19	13	6	17	A-4a (5)	<<< <<< <<<	

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 413+71, 14' LT.		START: 12/2/14		END: 12/2/14		PG 2 OF 2		B-136-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE SILT, TRACE CLAY, WET			657.3	31	6	7	21	100	SS-13A	2.50	-	-	-	-	-	-	-	-	23	A-4a (V)	<V>	
			656.8	31	7	7				SS-13B	-	-	-	-	-	-	-	-	-	16	A-3 (V)	<V>
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, SOME SILT, TRACE CLAY, MOIST TO WET			654.0	32																	<V>	
@40.0': SS-15 TO SS-17 BECOME LITTLE SILT, TRACE CLAY, TRACE GRAVEL				33																		<V>
@50.0': SS-17 BECOMES GRAY			634.0	34																	<V>	
				35	7	8	21	100	SS-14	-	0	30	37	31	2	NP	NP	NP	13	A-3a (0)	<V>	
				36	6																<V>	
				37																		<V>
			629.0	38																	<V>	
				39																		<V>
			625.8	40	4	4	17	100	SS-15	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<V>	
				41	7																<V>	
				42																	<V>	
			625.8	43																	<V>	
				44																	<V>	
				45	2	2	14	100	SS-16	-	1	1	82	14	2	NP	NP	NP	24	A-3a (0)	<V>	
			625.8	46	7																<V>	
				47																	<V>	
				48																	<V>	
			625.8	49																		<V>
				50	4	7	24	100	SS-17	-	-	-	-	-	-	-	-	-	24	A-3a (V)	<V>	
				51	9																<V>	
			625.8	52																		<V>
				53																		<V>
				54																		<V>
MEDIUM DENSE, GRAY, SILT, "AND" SAND, TRACE CLAY, WET			629.0	55	6	9	29	100	SS-18	-	0	4	34	55	7	NP	NP	NP	21	A-4b (5)	<V>	
				56	10																<V>	
DENSE, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP			625.8	57																	<V>	
				58																		<V>
				59																		<V>
			625.8	60	11	11	36	100	SS-19	-	0	1	2	81	16	25	20	5	17	A-4b (8)	<V>	
				61	13																<V>	
EOB																						
NOTES: GROUNDWATER ENCOUNTERED AT 37.5' DURING DRILLING. CAVE DEPTH 25.1'.																						
ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS																						

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>414+82, 26' LT.</u>	EXPLORATION ID <u>B-138-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>685.5 (MSL)</u> EOB: <u>62.0 ft.</u>	
START: <u>12/2/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.493397, -81.678942</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
4.0", TOPSOIL MEDIUM DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP TO MOIST (FILL) @5.0'; SS-3 TO SS-5 CONTAIN BRICK AND/OR CONCRETE FRAGMENTS	685.5																		
	685.2	1	3	6	20	100	SS-1	-	-	-	-	-	-	-	-	9	A-3a (V)	<<<<<<	
		2																	<<<<<<
		3	10	18	39	100	SS-2	-	11	11	59	13	6	NP	NP	NP	10	A-3a (0)	<<<<<<
		4																	<<<<<<
		5	7	24	67	100	SS-3	-	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<<<<
		6																	<<<<<<
		7	8	9	35	100	SS-4	-	-	-	-	-	-	-	-	-	12	A-3a (V)	<<<<<<
		8																	<<<<<<
		9																	<<<<<<
	10	7	6	16	100	SS-5	-	-	-	-	-	-	-	-	-	14	A-3a (V)	<<<<<<	
	11																	<<<<<<	
	12																	<<<<<<	
MEDIUM DENSE, BROWN AND GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS CONCRETE FRAGMENTS, DAMP TO MOIST (FILL)	673.5	13	3	3	12	100	SS-6	-	47	27	16	8	2	NP	NP	NP	11	A-1-b (0)	<<<<<<
		14																	<<<<<<
	15	3	4	12	100	SS-7	-	33	18	37	9	3	NP	NP	NP	10	A-1-b (0)	<<<<<<	
	16																		<<<<<<
MEDIUM DENSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	668.5	17	4	5	14	100	SS-8	-	1	9	83	4	3	NP	NP	NP	8	A-3 (0)	<<<<<<
		18																	<<<<<<
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO WET	666.0	19	3	4	16	100	SS-9	-	10	17	54	13	6	NP	NP	NP	15	A-3a (0)	<<<<<<
		20																	<<<<<<
	21	6	6	14	100	SS-10A	-	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<<<<<<
	22																		<<<<<<
MEDIUM DENSE, BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET	661.9	23	6	5			SS-10B	-	-	-	-	-	-	-	-	-	27	A-4b (V)	<<<<<<
	661.0	24																	<<<<<<
DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	658.5	25	9	15	38	100	SS-11	-	-	-	-	-	-	-	-	-	4	A-3a (V)	<<<<<<
		26																	<<<<<<
	27																		<<<<<<
DENSE, BROWN, SILT , LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, DAMP	657.5	28	12	12	29	100	SS-12A	-	-	-	-	-	-	-	-	-	15	A-4b (V)	<<<<<<
		29					SS-12B	-	3	28	56	9	4	NP	NP	NP	13	A-3a (0)	<<<<<<
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST																			<<<<<<
																			<<<<<<

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 414+82, 26' LT.		START: 12/2/14		END: 12/3/14		PG 2 OF 2		B-138-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM STIFF TO STIFF, BROWN MOTTLED WITH GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			655.5	31	12	42	100	SS-13A	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)	↖ ↗			
			654.3		13 19																	SS-13B	1.00	23
VERY DENSE, GRAYISH BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			652.2	32																	↖ ↗			
			650.5		33																			
DENSE, GRAYISH BROWN, SANDY SILT, TRACE CLAY, TRACE GRAVEL, WET			647.2	34																	↖ ↗			
			645.5		35																			
DENSE TO VERY DENSE, GRAYISH BROWN, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			642.2	36	13 16 23	51	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)	↖ ↗		
			640.2		37																			
@55.0'; SS-18 BECOMES GRAY			623.5	38	11 12 14	34	100	SS-15	-	1	0	48	46	5	NP	NP	NP	-	-	-	23	A-4a (3)	↖ ↗	
			621.5		39																			
@60.0'; ST-19 BECOMES LITTLE SAND @60.8'; UNIT WEIGHT: 137.4 PCF @ 29.1% MC			620.5	40	9 14 25	51	100	SS-16	-	-	-	-	-	-	-	-	-	-	-	-	22	A-4b (V)	↖ ↗	
			618.5		41																			
			623.5	42	14 24 41	85	100	SS-17	-	-	-	-	-	-	-	-	-	-	-	-	-	18	A-4b (V)	↖ ↗
			621.5		43																			
			623.5	44	11 14 15	38	100	SS-18	-	0	0	7	78	15	24	21	3	-	-	-	19	A-4b (8)	↖ ↗	
			621.5		45																			
			623.5	46																			↖ ↗	
			621.5		47																			
			623.5	48																			↖ ↗	
			621.5		49																			
			623.5	50																			↖ ↗	
			621.5		51																			
			623.5	52																			↖ ↗	
			621.5		53																			
			623.5	54																			↖ ↗	
			621.5		55																			
			623.5	56																			↖ ↗	
			621.5		57																			
			623.5	58																			↖ ↗	
			621.5		59																			
			623.5	59																			↖ ↗	
			621.5		60																			
			623.5	60																			↖ ↗	
			621.5		61																			
			623.5	61																			↖ ↗	
			621.5		62																			
			623.5	62																			↖ ↗	
			621.5		63																			

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. CAVE DEPTH 30.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 416+28, 34' RT.	START: 3/23/21	END: 3/24/21	PG 4 OF 4	B-138-1-20											
MATERIAL DESCRIPTION AND NOTES	ELEV. 589.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)	++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++	95	5															
		96	8 14	33	100	SS-23	4.50	0	0	1	67	32	29	21	8	20	A-4b (8)	
		97																
		98																
	583.7	99	4															
		8 10	27	100	SS-24	4.50	-	-	-	-	-	-	-	-	-	22	A-4b (V)	
		100																

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 100 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>		DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>		DRILL RIG: <u>CME 55X</u>		STATION / OFFSET: <u>417+74, 37' RT.</u>		EXPLORATION ID: <u>B-139-0-14</u>																
TYPE: <u>RETAINING WALL</u>		SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>		HAMMER: <u>CME AUTOMATIC</u>		ALIGNMENT: <u>RAMP A2</u>		PAGE: <u>1 OF 2</u>																
PID: <u>82380</u> SFN: <u></u>		DRILLING METHOD: <u>3.25" HSA</u>		CALIBRATION DATE: <u>1/26/14</u>		ELEVATION: <u>682.5 (MSL)</u> EOB: <u>62.0 ft.</u>		LAT / LONG: <u>41.494139, -81.679389</u>																
START: <u>4/1/15</u> END: <u>4/1/15</u>		SAMPLING METHOD: <u>SPT / ST</u>		ENERGY RATIO (%): <u>81.2</u>																				
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
											GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, LITTLE GRAVEL, TRACE CLAY, DAMP (FILL)			682.5	1	3	5	14	100	SS-1	-	-	-	-	-	-	-	-	-	-	12	A-3a (V)	<<<<<<		
			678.0	2																				>>>>>>
				3	15	17	20	50	100	SS-2	-	12	16	41	23	8	NP	NP	NP	10	A-3a (0)	<<<<<<		
VERY DENSE, BROWN, GRAVEL WITH SAND AND SILT , LITTLE CLAY, DAMP (FILL)			675.5	4																		>>>>>>		
				5	18	21	17	51	100	SS-3	-	18	11	38	21	12	NP	NP	NP	11	A-2-4 (0)	<<<<<<		
LOOSE TO MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP @7.5'; SS-4 CONTAINS BRICK FRAGMENTS			668.0	6																		>>>>>>		
				7																				>>>>>>
				8	11	11	11	30	100	SS-4	-	-	-	-	-	-	-	-	-	-	8	A-1-b (V)	<<<<<<	
LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP			665.5	9																		>>>>>>		
				10	5	4	4	11	100	SS-5	-	27	26	39	5	3	NP	NP	NP	7	A-1-b (0)	<<<<<<		
				11																				>>>>>>
LOOSE, BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST			663.0	12																		>>>>>>		
				13	3	3	4	9	100	SS-6	-	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	<<<<<<	
MEDIUM STIFF TO STIFF, BROWN, SANDY SILT , SOME CLAY, TRACE GRAVEL, MOIST TO WET @20.0'; SS-9 TO SS-10 BECOME SOME CLAY			658.0	14																		>>>>>>		
				15	2	3	4	9	100	SS-7	-	-	-	-	-	-	-	-	-	9	A-3 (V)	<<<<<<		
				16																				>>>>>>
MEDIUM DENSE, GRAY, SILT , LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, DAMP			655.5	17																		>>>>>>		
				18	2	3	3	8	100	SS-8	-	1	2	48	40	9	NP	NP	NP	17	A-4a (3)	<<<<<<		
LOOSE, BROWN, FINE SAND , TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, MOIST			653.0	19																		>>>>>>		
				20	3	3	3	8	100	SS-9	2.00	-	-	-	-	-	-	-	-	22	A-4a (V)	<<<<<<		
				21																				>>>>>>
				22																		>>>>>>		
				23	3	3	5	11	100	SS-10	1.25	0	0	25	42	33	25	16	9	28	A-4a (8)	<<<<<<		
				24																		>>>>>>		
				25	5	10	9	26	100	SS-11	-	-	-	-	-	-	-	-	-	14	A-4b (V)	<<<<<<		
				26																		>>>>>>		
				27																				>>>>>>
				28	3	4	3	9	67	SS-12	-	-	-	-	-	-	-	-	18	A-3 (V)	<<<<<<			
				29																				>>>>>>

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 417+74, 37' RT.		START: 4/1/15		END: 4/1/15		PG 2 OF 2		B-139-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 652.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP <i>(continued)</i>			649.2	31	3	6	19	100	SS-13	-	-	-	-	-	-	-	-	10	A-3a (V)					
				32	8																			
MEDIUM DENSE TO DENSE, DARK BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			647.5	33																				
				34																				
				35	5	7	20	100	SS-14	-	0	2	59	36	3	NP	NP	NP	25		A-4a (1)			
				36	8	15	47	100	SS-15	-	-	-	-	-	-	-	-	-	-		23	A-4a (V)		
				37																				
				38																				
				39																				
				40	2	5	20	100	SS-16	-	-	-	-	-	-	-	-	-	-		-	21	A-4a (V)	
				41																				
				42																				
@50.0'; SS-17 BECOMES VERY DENSE			629.2	43																				
				44																				
				45	13	19	54	100	SS-17	-	-	-	-	-	-	-	-	-	24		A-4a (V)			
HARD, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST			620.5	46																				
				47	5	10	31	100	SS-18	4.25	-	-	-	-	-	-	-	-	20		A-4b (V)			
				48																				
				49																				
				50																				
				51																				
@61.1'; UNIT WEIGHT: 135.5 PCF @ 15.7% MC			620.5	52																				
				53																				
				54																				
				55	5	10	31	100	SS-18	4.25	-	-	-	-	-	-	-	20	A-4b (V)					
				56																				
				57																				
				58																				
				59																				
				60																				
				61			100	SS-19	4.50	0	0	0	66	34	26	19	7	19	A-4b (8)					
				62																				

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. CAVE DEPTH 16.5'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 418+96, 28' LT. START: 6/30/21 END: 6/30/21 PG 4 OF 4 B-139-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 595.8	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued)		95	10															
		96	11 13	27	100	SS-23	4.50	-	-	-	-	-	-	-	19	A-4b (V)		
		97																
		98																
		99																
		100																
		101																
		102																
		103																
		104				106	ST-2	4.25	0	0	2	68	30	27	18	9	17	A-4b (8)
	585.1	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 38.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 200 GAL. BENTONITE GROUT; POURED 1 BAG HOLE PLUG

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\HARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 420+24, 78' LT. START: 3/19/21 END: 3/22/21 PG 4 OF 4 B-139-2-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 602.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)	598.8	95	3															
		96	6	22	100	SS-24	2.75	-	-	-	-	-	-	-	21	A-6a (V)		
		97																
VERY STIFF, GRAY, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP	592.1	98																
		99																
		100	5	21	100	SS-25	2.50	0	0	0	59	41	31	21	10	22	A-4b (8)	
		101	6															
		102																
		103																
		104	3															
		105	8	30	100	SS-26	3.00	-	-	-	-	-	-	-	21	A-4b (V)		
		EOB	12															

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 100 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380 SFN: PROJECT: CUY-CCG3 STATION / OFFSET: 421+13, 19' RT. START: 4/14/15 END: 4/15/15 PG 4 OF 4 B-140-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 586.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO VERY STIFF, GRAYISH BROWN, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, INTERBEDDED, MOIST (continued)	582.0	95	2															
		96	4	18	100	SS-26	1.75	-	-	-	-	-	-	-	23	A-4b (V)	<V>	
STIFF TO VERY STIFF, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, INTERBEDDED, MOIST	568.8	97															<V>	
		98															<V>	
		99															<V>	
		100	4	24	100	SS-27	1.90	-	-	-	-	-	-	-	22	A-6a (V)	<V>	
		101	8	10														<V>
		102															<V>	
		103															<V>	
		104															<V>	
		105	4	24	100	SS-28	4.00	-	-	-	-	-	-	21	A-6a (V)	<V>		
		106	8	10													<V>	
		107															<V>	
		108															<V>	
		109															<V>	
		110	5	22	100	SS-29	2.30	2	1	5	44	48	30	19	11	22	A-6a (8)	<V>
		111	7	9													<V>	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:09 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 423+20, 13' LT.		START: 5/6/21		END: 5/7/21		PG 4 OF 4		B-141-1-20						
MATERIAL DESCRIPTION AND NOTES			ELEV. 574.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, GRAY, SILT, LITTLE TO "AND" CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, MOIST TO WET (continued)			574.3	95	6															
				96	9 12	31	100	SS-23	3.25	-	-	-	-	-	-	-	-	22	A-4b (V)	
MEDIUM STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST			570.3	97																
				98																
			560.3	99																
				100	8															
			560.3	101	10 12	33	100	SS-24	0.75	2	1	2	53	42	30	18	12	24	A-6a (9)	
				102																
			560.3	103																
				104																
SOFT TO MEDIUM STIFF, GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST			560.3	105	4															
				106	5 6	16	100	SS-25	2.25	-	-	-	-	-	-	-	-	23	A-6a (V)	
			560.3	107																
				108																
			560.3	109																
				110	1															
			560.3	111	3 4	10	100	SS-26	0.50	-	-	-	-	-	-	-	-	28	A-6b (V)	
				112																
			560.3	113																
				114																
			560.3	115	0															
				116	2 3	7	100	SS-27	0.75	0	1	2	38	59	36	20	16	27	A-6b (10)	
			560.3	117																
				118																
			560.3	119																
				120	1															
			560.3	121	3 5	12	100	SS-28	0.50	-	-	-	-	-	-	-	-	24	A-6b (V)	
				122																
			560.3	123																
				124	1															
			560.3	125	3 6	13	100	SS-29	0.50	-	-	-	-	-	-	-	-	29	A-6b (V)	
				EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 25.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 250 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 182+31, 36' LT.		START: 2/26/15		END: 3/9/15		PG 3 OF 4		B-142-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 615.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM STIFF TO HARD, BROWN, SILT, LITTLE TO SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET (continued) @65.0'; UNIT WEIGHT: 132.4 PCF @ 19.4% MC				63																			
				64																			
				65																			
				66					100	SS-19	2.10	0	0	3	75	22	25	19	6	19	A-4b (8)		
				67																			
				68																			
				69																			
				70																			
				71			5	8	26	100	SS-20	2.80	-	-	-	-	-	-	-	-	19	A-4b (V)	
				72																			
	73																						
	74																						
	75																						
	76						100	SS-21	1.50	0	0	1	72	27	25	19	6	19	A-4b (8)				
	77																						
	78																						
	79																						
	80																						
	81			0	6	17	100	SS-22	2.75	-	-	-	-	-	-	-	-	22	A-4b (V)				
	82																						
	83																						
	84																						
	85																						
	86			8	15	43	100	SS-23	4.10	-	-	-	-	-	-	-	-	19	A-4b (V)				
	87																						
	88																						
	89																						
	90																						
	91						100	SS-24	1.60	0	0	0	59	41	28	20	8	20	A-4b (8)				
	92																						
	93																						
	94																						

@90.0'; ST-24 TO ST-27 BECOME "AND" CLAY
 @91.1'; UNIT WEIGHT: 132.9 PCF @ 20.3% MC

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 182+31, 36' LT. START: 2/26/15 END: 3/9/15 PG 4 OF 4 B-142-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 583.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO HARD, BROWN, SILT, LITTLE TO SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET <i>(continued)</i>		95	6															
		96	12 15	35	100	SS-25	2.90	-	-	-	-	-	-	-	24	A-4b (V)		
		97																
		98																
		99																
		100	4															
		101	5 9	18	100	SS-26	1.25	0	0	0	61	39	26	17	9	22	A-4b (8)	
		102																
		103																
		104																
	105	0																
	106	6 10	21	100	SS-27	1.50	-	-	-	-	-	-	-	-	20	A-4b (V)		
	107																	
	108																	
	109																	
VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	569.2																	
	565.5																	
@111.5'; UNIT WEIGHT: 129.5 PCF @ 24.3% MC																		
		110																
		111			100	SS-28	2.50	1	2	4	38	55	31	19	12	24	A-6a (9)	
		112																

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.5 DURING DRILLING. CAVE DEPTH 27.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16-28 (CCG3A - MOD#:

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>424+28, 27' RT.</u>	EXPLORATION ID <u>B-142-1-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	PAGE 1 OF 3
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>681.2 (MSL)</u> EOB: <u>75.0 ft.</u>	
START: <u>3/15/21</u> END: <u>3/15/21</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.495780, -81.679499</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	HOLE SEALED	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
4.0" ASPHALT AND 8.0" BASE (DRILLERS DESCRIPTION)	681.2																		
MEDIUM DENSE TO VERY DENSE, BROWN AND DARK GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS RED BRICK FRAGMENTS, GLASS, AND CONCRETE FRAGMENTS, DAMP (FILL)	680.2	1																	
		2																	
		3	5	6	9	22	44	SS-1	-	-	-	-	-	-	-	9	A-1-b (V)		
		4																	
		5	3																
		6	10	27	55	100	SS-2	-	-	-	-	-	-	-	-	8	A-1-b (V)		
		7																	
		8	3	7	11	27	100	SS-3	-	-	-	-	-	-	-	11	A-1-b (V)		
		9																	
		10	6	6	7	19	100	SS-4	-	-	-	-	-	-	-	10	A-1-b (V)		
	669.2	11																	
LOOSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		12																	
		13	2	2	4	9	100	SS-5	-	-	-	-	-	-	-	6	A-3a (V)		
		14																	
		15	2	3	4	10	100	SS-6	-	-	-	-	-	-	-	9	A-3a (V)		
		16																	
LOOSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP	664.2	17																	
		18	1	2	3	7	100	SS-7	-	20	32	36	6	6	NP	NP	NP	8	A-1-b (0)
		19																	
		20	1	2	2	6	78	SS-8	-	-	-	-	-	-	-	-	8	A-1-b (V)	
		21																	
LOOSE, LIGHT BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP	657.9	22																	
		23																	
		24																	
		25	2	3	4	10	100	SS-9	-	-	-	-	-	-	-	5	A-3a (V)		
		26																	
		27																	
		28																	
		29																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 424+28, 27' RT.		START: 3/15/21		END: 3/15/21		PG 2 OF 3		B-142-1-20								
MATERIAL DESCRIPTION AND NOTES			ELEV. 651.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED		
										GR	CS	FS	SI	CL	LL	PL	PI					
LOOSE, LIGHT BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP <i>(continued)</i> @30.0'; SS-10 TO SS-14 BECOME MEDIUM DENSE TO VERY DENSE, BROWNISH GRAY, WET				31	3	5	19	100	SS-10	-	-	-	-	-	-	-	-	24	A-3a (V)			
				32																		
				33																		
				34																		
				35	6	15	53	100	SS-11	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
				36		21																
				37																		
				38																		
				39																		
				40	10	14	49	100	SS-12	-	-	-	-	-	-	-	-	-	-	23	A-3a (V)	
41		19																				
42																						
43																						
44																						
45	5	8	24	100	SS-13	-	-	-	-	-	-	-	-	-	-	24	A-3a (V)					
46		8																				
47																						
48																						
49																						
50	7	11	42	100	SS-14	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)					
51		17																				
52																						
53																						
54																						
55	6	13	33	100	SS-15	-	0	0	14	67	19	NP	NP	NP	19	A-4b (8)						
56		9																				
57																						
58																						
59																						
60	5	6	30	100	SS-16	-	-	-	-	-	-	-	-	-	-	20	A-4b (V)					
61		14																				

627.9

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 424+28, 27' RT. START: 3/15/21 END: 3/15/21 PG 3 OF 3 B-142-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 619.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO DENSE, GRAY, SILT, LITTLE CLAY, TRACE TO LITTLE SAND, TRACE GRAVEL, WET (continued)		63																
		64																
		65	4															
		66	6 12	27	100	SS-17	-	0	0	8	72	20	NP	NP	NP	21	A-4b (8)	
		67																
	613.2	68																
MEDIUM STIFF TO VERY STIFF, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST @69.4' TO 69.9'; Qu = 1916 PSF @ 13.0%		69			100	ST-1	4.00	0	0	0	67	33	29	21	8	24	A-4b (8)	
		70	3															
		71	4 5	13	100	SS-18	1.25	-	-	-	-	-	-	-	-	23	A-4b (V)	
		72																
		73																
	606.2	74	2 6	13	100	SS-19	2.75	0	0	6	56	38	26	18	8	23	A-4b (8)	
		75		3														
		EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 50 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 424+92, 29' RT.		START: 3/17/21		END: 3/17/21		PG 2 OF 4		B-142-2-20							
MATERIAL DESCRIPTION AND NOTES			ELEV. 650.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)			650.4	31	4 5 7	18	100	SS-12	-	-	-	-	-	-	-	-	-	26	A-3a (V)		
				32																	
				33																	
				34																	
				35	3																
				36	8 16	36	100	SS-13	-	-	-	-	-	-	-	-	-	-	-	23	A-3a (V)
				37																	
				38																	
				39																	
				40	9																
41	10 14	36	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)				
42																					
43																					
44																					
45	5																				
46	8 9	25	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)				
47																					
48																					
49																					
50	3																				
51	6 10	24	100	SS-16	-	0	4	72	20	4	NP	NP	NP		16	A-3a (0)					
52																					
53																					
54																					
55	9																				
56	7 15	33	100	SS-17	-	0	0	18	70	12	NP	NP	NP		19	A-4b (8)					
57																					
58																					
59																					
60	1																				
61	2 3	7	100	SS-18	3.25	-	-	-	-	-	-	-	-	-	-	24	A-4b (V)				

627.1

DENSE, GRAY, **SILT**, TRACE TO LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET

@60.0'; SS-18 BECOMES VERY STIFF

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 424+92, 29' RT. START: 3/17/21 END: 3/17/21 PG 4 OF 4 B-142-2-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 586.1	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
STIFF TO HARD, GRAY, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)	586.1	95	2															
		96	6	21	100	SS-25	3.25	-	-	-	-	-	-	-	21	A-4b (V)		
		97	8															
VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP	582.1	98																
		99																
		100	4	24	100	SS-26	3.00	0	0	0	60	40	30	19	11	21	A-6a (8)	
SOFT TO MEDIUM STIFF, GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST	572.9	101																
		102																
		103																
SOFT TO MEDIUM STIFF, GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST	570.4	104																
		105	4	27	100	SS-27	4.00	-	-	-	-	-	-	-	19	A-6a (V)		
		106	8															
		107																
		108																
		109	4	19	100	SS-28	0.50	0	1	3	22	74	44	23	21	32	A-7-6 (13)	
		110	6	7														

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 30.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 240 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 426+81, 39' RT. START: 3/16/21 END: 3/16/21 PG 4 OF 4 B-142-3-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 580.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)		95	5															
		96	9 12	31	100	SS-25	4.50	0	1	3	45	51	29	18	11	19	A-6a (8)	
		97																
		98																
		99																
		100		4														
		101	10 13	34	100	SS-26	4.50	-	-	-	-	-	-	-	-	13	A-6a (V)	
		102																
		103																
		104																
	105		3															
	106	9 10	28	100	SS-27	2.50	-	-	-	-	-	-	-	-	23	A-6a (V)		
	107																	
	108																	
	109		6															
	110	12 17	43	100	SS-28	3.50	0	2	2	40	56	31	19	12	22	A-6a (9)		
		EOB																



NOTES: GROUNDWATER ENCOUNTERED AT 25.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 240 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 186+59, 26' LT.		START: 6/24/21		END: 6/24/21		PG 2 OF 3		B-142-4-20									
MATERIAL DESCRIPTION AND NOTES			ELEV. 660.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED			
										GR	CS	FS	SI	CL	LL	PL	PI						
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST TO WET (continued) @32.5'; SS-13 CONTAINS A 3.0" A-6A SEAM				31	5 4 5	10	44	SS-12	-	-	-	-	-	-	-	-	-	9	A-3a (V)				
				32																			
				33	6 9 8	19	61	SS-13	-	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)		
				34																			
				35	7 9 9	21	67	SS-14	-	-	-	-	-	-	-	-	-	-	-	11	A-3a (V)		
				36																			
				37																			
				38	7 8 11	22	83	SS-15	-	7	31	48	10	4	NP	NP	NP			19	A-3a (0)		
				39																			
				40	6 7 10	19	67	SS-16	-	-	-	-	-	-	-	-	-	-	-	20	A-3a (V)		
				41																			
				42																			
				43	6 8 13	24	61	SS-17	-	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)		
				44																			
	45	5 8 14	25	67	SS-18	-	-	-	-	-	-	-	-	-	-	-	19	A-3a (V)					
	46																						
	47																						
	48																						
	49																						
	50	6 10 13	26	56	SS-19	-	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)					
	51																						
	52																						
	53																						
	54																						
	55	8 11 13	27	0	SS-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	56																						
	57																						
	58																						
	59																						
	60	9 10 14	27	89	SS-21	-	-	-	-	-	-	-	-	-	-	-	13	A-3a (V)					
	61																						

W 647.7

@55.0'; SS-20 CONTAINS NO RECOVERY

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A) (CCG3)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 186+59, 26' LT.	START: 6/24/21	END: 6/24/21	PG 3 OF 3	B-142-4-20											
MATERIAL DESCRIPTION AND NOTES	ELEV. 628.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST TO WET (continued)	624.0	63 64 65 66	10 9 13	25	56	SS-22	-	-	-	-	-	-	-	-	12	A-3a (V)		
		EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 42.8' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 150 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PROJECT: CUY-CCG3		DRILLING FIRM / OPERATOR: BARR / T.GILBERT		DRILL RIG: CME 45B		STATION / OFFSET: 430+46, 52' RT.		EXPLORATION ID: B-144-0-14	
TYPE: BRIDGE		SAMPLING FIRM / LOGGER: BARR / Z.JEWELL		HAMMER: CME AUTOMATIC		ALIGNMENT: RAMP A2			
PID: 82380 SFN:		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 1/26/14		ELEVATION: 669.1 (MSL) EOB: 111.5 ft.		PAGE 1 OF 4	
START: 10/21/14 END: 10/22/14		SAMPLING METHOD: SPT / ST		ENERGY RATIO (%): 77.4		LAT / LONG: 41.496799, -81.677835			

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL				
								GR	CS	FS	SI	CL	LL	PL	PI			WC			
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS CONCRETE FRAGMENTS, MOIST (FILL)	669.1	1	5	11	25	44	SS-1	-	-	-	-	-	-	-	-	-	-	14	A-1-b (V)	<<< >>>	
VERY LOOSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	667.1	2																		<<< >>>	
		3	2	2	4	100	SS-2	-	15	23	46	10	6	NP	NP	NP	8	A-3a (0)	<<< >>>		
@5.0'; SS-3 BECOMES VERY DENSE		4	4	50/0"	-	100	SS-3	-	-	-	-	-	-	-	-	-	-	7	A-3a (V)	<<< >>>	
@7.5'; SS-4 BECOMES LOOSE		5																		<<< >>>	
STIFF, BROWN MOTTLED WITH GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST	659.6	8	3	3	8	94	SS-4	-	-	-	-	-	-	-	-	-	-	9	A-3a (V)	<<< >>>	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP	657.1	9																		<<< >>>	
		10	2	2	5	100	SS-5	1.50	0	0	1	56	43	32	18	14	25	A-6a (10)	<<< >>>		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP	649.6	11																		<<< >>>	
		12	8	9	23	89	SS-6	-	-	-	-	-	-	-	-	-	-	4	A-3a (V)	<<< >>>	
		13																			<<< >>>
		14	6	8	26	83	SS-7	-	-	-	-	-	-	-	-	-	-	4	A-3a (V)	<<< >>>	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, WET	647.1	15																		<<< >>>	
		16	6	7	21	94	SS-8	-	-	-	-	-	-	-	-	-	-	6	A-3a (V)	<<< >>>	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, TRACE SILT, TRACE CLAY, MOIST TO WET	639.1	17																		<<< >>>	
@25.0'; SS-11 TO SS-12 BECOME LITTLE SILT, TRACE GRAVEL		18	6	6	21	100	SS-9	-	6	58	31	3	2	NP	NP	NP	19	A-1-b (0)	<<< >>>		
@27.5'; SS-12 BECOMES GRAY		19	5	6	18	100	SS-10	-	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<<< >>>	
		20																		<<< >>>	
		21	6	12	39	100	SS-11	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<<< >>>	
		22																		<<< >>>	
		23	5	7	21	89	SS-12	-	0	2	80	15	3	NP	NP	NP	24	A-3a (0)	<<< >>>		
		24																		<<< >>>	
		25																		<<< >>>	
		26	5	7	21	89	SS-12	-	0	2	80	15	3	NP	NP	NP	24	A-3a (0)	<<< >>>		
		27																		<<< >>>	
		28																		<<< >>>	
		29																		<<< >>>	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380 SFN: PROJECT: CUY-CCG3 STATION / OFFSET: 430+46, 52' RT. START: 10/21/14 END: 10/22/14 PG 4 OF 4 B-144-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 574.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM STIFF TO STIFF, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, CONTAINS SILT LENSES, MOIST <i>(continued)</i>	574.8	95	7																	
		96	10 14	31	100	SS-26	1.20	-	-	-	-	-	-	-	21	A-6a (V)	<V>			
		97																<V>		
VERY SOFT TO SOFT, GRAY, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST	570.6	98																<V>		
		99																<V>		
		100	0	0	100	SS-27	0.20	0	1	3	34	62	37	18	19	29	A-6b (12)	<V>		
		101	0	0															<V>	
		102																	<V>	
		103																		<V>
		104																		<V>
		105	4	5	14	100	SS-28	0.30	-	-	-	-	-	-	-	-	-	27	A-6b (V)	<V>
		106	6	6																<V>
107																		<V>		
108																		<V>		
109																		<V>		
110	6	6	18	100	SS-29	0.40	-	-	-	-	-	-	-	-	-	26	A-6b (V)	<V>		
111	8																	<V>		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 20.0' DURING DRILLING. CAVE DEPTH 21.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 432+43, 18' RT.		START: 10/21/14		END: 10/22/14		PG 2 OF 2		B-146-0-14											
MATERIAL DESCRIPTION AND NOTES				ELEV. 637.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED				
											GR	CS	FS	SI	CL	LL	PL	PI							
DENSE, BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)				637.2	31	7 10 12	33	100	SS-13	-	0	2	59	33	6	NP	NP	NP	21	A-4a (1)					
					32																				
					33																				
					34																				
					35																				
					36																				
					37																				
					38																				
					39																				
					40																				
@40.0'; SS-15 BECOMES GRAYISH BROWN				624.2	40	10 12 16	42	100	SS-15	-	-	-	-	-	-	-	-	-	21	A-4a (V)					
					41																				
					42																				
					43																				
					44																				
					45																				
					46																				
					47																				
					48																				
					49																				
DENSE, GRAY, SILT , LITTLE SAND, LITTLE CLAY, TRACE GRAVEL, WET				618.9	45	8 8 12	30	100	SS-16	-	0	1	14	70	15	NP	NP	NP	24	A-4b (8)					
					46																				
					47																				
					48																				
					49																				
					50																				
					51																				
					52																				
					53																				
					54																				
MEDIUM STIFF TO STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, SS-18 CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP TO MOIST				618.9	50	5 6 7	20	100	SS-17	0.75	1	0	3	64	32	28	19	9	23	A-4b (8)					
					51																				
					52																				
					53																				
					54																				
					55																				
					56																				
					57																				
					58																				
					59																				
				605.7	60	5 7 10	26	100	SS-19	1.60	-	-	-	-	-	-	-	22	A-4b (V)						
					61																				

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 30.0' DURING DRILLING. CAVE DEPTH 22.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 2 BAGS BENTONITE CHIPS; SOIL MIXED WITH 2 BAGS CEMENT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 306+08, 44' RT.		START: 10/23/14		END: 10/24/14		PG 2 OF 2		B-148-0-14												
MATERIAL DESCRIPTION AND NOTES			ELEV. 637.3	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED					
											GR	CS	FS	SI	CL	LL	PL	PI								
LOOSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, WET (continued)			634.3	31	7	9	29	100	SS-13	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<>					
				32	10																		<>			
MEDIUM DENSE, GRAY, SILT, SOME SAND, TRACE CLAY, TRACE GRAVEL, WET			623.8	33																	<>					
				34																			<>			
				35	5																			<>		
				36	8	27	100	SS-14	-	0	0	34	57	9	NP	NP	NP				28	A-4b (6)	<>			
				37																				<>		
				38																					<>	
				39																					<>	
				40	7																				<>	
				41	8	24	100	SS-15	-	-	-	-	-	-	-	-	-	-	-	-	-			26	A-4b (V)	<>
				42																					<>	
MEDIUM STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, SS-18 CONTAINS NO INTACT SOIL FOR HP READINGS, MOIST TO WET			605.8	43																		<>				
				44																				<>		
				45	5																			<>		
				46	7	27	100	SS-16	4.50	0	0	2	75	23	27	17	10				20	A-4b (8)	<>			
				47																					<>	
				48																					<>	
				49																					<>	
				50																					<>	
				51	3	5	15	100	SS-17	1.00	-	-	-	-	-	-	-	-	-	-	-			25	A-4b (V)	<>
				52																					<>	
EOB			605.8	53																		<>				
				54																				<>		
				55	0																			<>		
				56	3	12	100	SS-18	-	0	0	1	73	26	26	17	9				30	A-4b (8)	<>			
				57																					<>	
				58																					<>	
				59																					<>	
				60	5																				<>	
				61	6	23	100	SS-19	1.60	-	-	-	-	-	-	-	-	-	-	-	-			24	A-4b (V)	<>

NOTES: GROUNDWATER ENCOUNTERED AT 21.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; SOIL MIXED WITH 3 BAGS CEMENT

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 307+58, 34' RT.	START: 10/22/14	END: 10/23/14	PG 2 OF 2	B-149-0-14
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MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED		
								GR	CS	FS	SI	CL	LL	PL	PI					
DENSE, GRAY, COARSE AND FINE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET (continued)	639.8	31	8 9 13	33	100	SS-13	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<> \ / <> \ / <> \ / <> \ / <> \ /	
	636.3	32																	<> \ / <> \ / <> \ / <> \ / <> \ /	
	33	34																	<> \ / <> \ / <> \ / <> \ / <> \ /	
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT, TRACE CLAY, TRACE GRAVEL, WET		35	8 9 12	32	100	SS-14	-	-	-	-	-	-	-	-	-	-	25	A-4a (V)	<> \ / <> \ / <> \ / <> \ / <> \ /	
		36																	<> \ / <> \ / <> \ / <> \ / <> \ /	
		37																	<> \ / <> \ / <> \ / <> \ / <> \ /	
		38																	<> \ / <> \ / <> \ / <> \ / <> \ /	
		39																		<> \ / <> \ / <> \ / <> \ / <> \ /
MEDIUM STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	626.8	40	4 7 9	24	100	SS-15	-	0	0	46	47	7	NP	NP	NP	26	A-4a (4)	<> \ / <> \ / <> \ / <> \ / <> \ /		
	41																		<> \ / <> \ / <> \ / <> \ / <> \ /	
	42																		<> \ / <> \ / <> \ / <> \ / <> \ /	
	43																		<> \ / <> \ / <> \ / <> \ / <> \ /	
	44																		<> \ / <> \ / <> \ / <> \ / <> \ /	
		45	2 3 5	12	100	SS-16	1.40	-	-	-	-	-	-	-	-	-	22	A-6a (V)	<> \ / <> \ / <> \ / <> \ / <> \ /	
		46																	<> \ / <> \ / <> \ / <> \ / <> \ /	
		47																	<> \ / <> \ / <> \ / <> \ / <> \ /	
		48																		<> \ / <> \ / <> \ / <> \ / <> \ /
		49																		<> \ / <> \ / <> \ / <> \ / <> \ /
		50	8 8 8	24	100	SS-17	0.80	1	0	3	61	35	29	18	11	24	A-6a (8)	<> \ / <> \ / <> \ / <> \ / <> \ /		
		51																		<> \ / <> \ / <> \ / <> \ / <> \ /
		52																		<> \ / <> \ / <> \ / <> \ / <> \ /
		53																		<> \ / <> \ / <> \ / <> \ / <> \ /
		54																		<> \ / <> \ / <> \ / <> \ / <> \ /
		55	8 9 10	29	100	SS-18	3.30	-	-	-	-	-	-	-	-	-	20	A-6a (V)	<> \ / <> \ / <> \ / <> \ / <> \ /	
56																		<> \ / <> \ / <> \ / <> \ / <> \ /		
57																		<> \ / <> \ / <> \ / <> \ / <> \ /		
58																		<> \ / <> \ / <> \ / <> \ / <> \ /		
59																		<> \ / <> \ / <> \ / <> \ / <> \ /		
60	6 8 8	24	100	SS-19	1.00	-	-	-	-	-	-	-	-	-	21	A-6a (V)	<> \ / <> \ / <> \ / <> \ / <> \ /			
61																		<> \ / <> \ / <> \ / <> \ / <> \ /		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 21.5' DURING DRILLING. CAVE DEPTH 21.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; POURED 3 BAGS CEMENT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>198+05, 39' LT.</u>	EXPLORATION ID <u>B-151-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>665.4 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>12/2/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.498073, -81.675354</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BROWN AND DARK GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, CONTAINS FEW ROOTS, MOIST (FILL)	665.4		3																
	663.4	1	9	23	100	SS-1	-	38	22	29	8	3	NP	NP	NP	11	A-1-b (0)	<< << <<	
		2	6																<< << <<
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST		3	3	4	12	100	SS-2	-	-	-	-	-	-	-	-	8	A-3a (V)	<< << <<	
		4	4																<< << <<
		5	4																<< << <<
		6	4	4	12	100	SS-3	-	-	-	-	-	-	-	-	9	A-3a (V)	<< << <<	
		7																	<< << <<
		8	2	3	9	100	SS-4	-	0	3	83	10	4	NP	NP	NP	11	A-3a (0)	<< << <<
		9	3																<< << <<
		10	3																<< << <<
		11	3	3	9	100	SS-5	-	-	-	-	-	-	-	-	8	A-3a (V)	<< << <<	
		12																	<< << <<
		13	3	3	9	100	SS-6	-	-	-	-	-	-	-	-	9	A-3a (V)	<< << <<	
		14	3																<< << <<
		15	3																<< << <<
		16	3	4	11	100	SS-7	-	-	-	-	-	-	-	-	10	A-3a (V)	<< << <<	
	648.4	17																	<< << <<
MEDIUM DENSE TO DENSE, BROWN, FINE SAND , SOME COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET		18	0	3	15	100	SS-8	-	6	30	59	3	2	NP	NP	NP	21	A-3 (0)	<< << <<
		19		7															<< << <<
		20	3																<< << <<
		21	4	7	17	100	SS-9	-	-	-	-	-	-	-	-	20	A-3 (V)	<< << <<	
		22																	<< << <<
		23	5	7	23	100	SS-10	-	-	-	-	-	-	-	-	21	A-3 (V)	<< << <<	
		24		8															<< << <<
		25	5																<< << <<
		26	10	11	32	100	SS-11	-	-	-	-	-	-	-	-	18	A-3 (V)	<< << <<	
	638.4	27																	<< << <<
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET		28	6	12	39	100	SS-12	-	2	28	57	9	4	NP	NP	NP	17	A-3a (0)	<< << <<
		29		14															<< << <<

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:18 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 198+05, 39' LT.		START: 12/2/14		END: 12/3/14		PG 2 OF 2		B-151-0-14											
MATERIAL DESCRIPTION AND NOTES			ELEV. 635.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL					
										GR	CS	FS	SI	CL	LL	PL	PI								
DENSE, GRAYISH BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET (continued)			627.1	31	3	8	30	100	SS-13	-	-	-	-	-	-	-	-	-	18	A-3a (V)					
				32																					
				33																					
				34																					
				35	11	11	38	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		19	A-3a (V)		
DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			622.1	36	11	14																			
				37																					
				38																					
				39																					
				40	10	13	38	100	SS-15	-	0	1	51	42	6	NP	NP	NP		24		A-4a (3)			
MEDIUM STIFF TO VERY STIFF, GRAY, SILT , SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET			603.9	41	10	12																			
				42																					
				43																					
				44																					
				45	7	10	36	100	SS-16	4.00	-	-	-	-	-	-	-	-	-	-		19	A-4b (V)		
				46	10	14																			
				47																					
				48																					
				49																					
				50	6	6	17	100	SS-17	0.60	0	1	2	61	36	29	19	10		25		A-4b (8)			
				51	6	5																			
52																									
53																									
54																									
55	4	3	12	100	SS-18	0.75	-	-	-	-	-	-	-	-	-	-		27	A-4b (V)						
56	4	5																							
57																									
58																									
59																									
60	5	7	29	100	SS-19	1.00	0	1	1	69	29	26	18	8		22	A-4b (8)								
61	5	12																							

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 16.0' DURING DRILLING. CAVE DEPTH 19.7'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A) (CCG3)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 1605+19, 200' RT.	START: 7/2/21	END: 7/2/21	PG 3 OF 3	B-151-1-20											
MATERIAL DESCRIPTION AND NOTES	ELEV. 624.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
LOOSE TO MEDIUM DENSE, BROWN BECOMING GRAYISH BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP (continued)	620.1	63 64 65 66	9 10 11	24	89	SS-19	-	-	-	-	-	-	-	-	-	25	A-3a (V)	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 33.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 140 GAL. BENTONITE GROUT; POURED 1 BAG HOLE PLUG

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>		DRILLING FIRM / OPERATOR: <u>BARR / JO.GILBERT</u>		DRILL RIG: <u>CME 55X</u>		STATION / OFFSET: <u>201+57, 225' LT.</u>		EXPLORATION ID														
TYPE: <u>RETAINING WALL</u>		SAMPLING FIRM / LOGGER: <u>BARR / Z.JEWELL</u>		HAMMER: <u>CME AUTOMATIC</u>		ALIGNMENT: <u>SB E 14TH ST INTERIM</u>		B-152-0-14														
PID: <u>82380</u> SFN: _____		DRILLING METHOD: <u>3.25" HSA</u>		CALIBRATION DATE: <u>1/26/14</u>		ELEVATION: <u>675.7 (MSL)</u> EOB: <u>61.5 ft.</u>		PAGE														
START: <u>11/20/14</u> END: <u>11/20/14</u>		SAMPLING METHOD: <u>SPT</u>		ENERGY RATIO (%): <u>81.2</u>		LAT / LONG: <u>41.494605, -81.678275</u>		1 OF 2														
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
											GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, DARK BROWN AND BROWN, COARSE AND FINE SAND, LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, SS-1 CONTAINS TILE FRAGMENTS, MOIST TO WET (FILL)			675.7	1	3	5	22	67	SS-1	-	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<< >>
				2																		<< >>
				3	10	13	34	100	SS-2	-	15	18	39	20	8	NP	NP	NP	14	A-3a (0)	<< >>	
			671.2	4																		<< >>
DENSE, BROWN, GRAVEL WITH SAND, TRACE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, DAMP (FILL)				5	8	18	38	83	SS-3	-	46	19	22	9	4	NP	NP	NP	11	A-1-b (0)	<< >>	
				6																		<< >>
			668.7	7																		<< >>
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND, TRACE TO LITTLE GRAVEL, TRACE TO LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, DAMP TO MOIST				8	4	4	12	78	SS-4	-	-	-	-	-	-	-	-	-	-	14	A-3 (V)	<< >>
				9																		<< >>
				10	3	4	9	89	SS-5	-	-	-	-	-	-	-	-	-	11	A-3 (V)	<< >>	
				11																		<< >>
				12																		<< >>
				13	3	2	9	56	SS-6	-	-	-	-	-	-	-	-	-	10	A-3 (V)	<< >>	
				14																		<< >>
@15.0'; SS-7 AND SS-8 BECOME MEDIUM DENSE TO DENSE				15	6	11	28	100	SS-7	-	20	18	54	6	2	NP	NP	NP	5	A-3 (0)	<< >>	
				16																		<< >>
				17																		<< >>
				18	7	13	37	89	SS-8	-	-	-	-	-	-	-	-	-	7	A-3 (V)	<< >>	
			656.2	19																		<< >>
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET				20	6	11	32	100	SS-9	-	-	-	-	-	-	-	-	-	6	A-3a (V)	<< >>	
				21																		<< >>
			w 653.7	22																		<< >>
				23	6	7	20	89	SS-10	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<< >>	
				24																		<< >>
				25	3	5	16	100	SS-11	-	0	1	83	12	4	NP	NP	NP	23	A-3a (0)	<< >>	
				26																		<< >>
				27																		<< >>
				28	7	12	42	100	SS-12	-	-	-	-	-	-	-	-	-	15	A-3a (V)	<< >>	
				29																		<< >>

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 201+57, 225' LT.		START: 11/20/14		END: 11/20/14		PG 2 OF 2		B-152-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 645.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET (continued)			645.7	31	11 12 16	38	100	SS-13	-	-	-	-	-	-	-	-	-	17	A-3a (V)					
				32																				
				33																				
				34																				
@35.0'; SS-14 BECOMES GRAY			637.4	35	8 13 13	35	67	SS-14	-	0	1	77	19	3	NP	NP	NP	24	A-3a (V)					
				36																				
				37																				
				38																				
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			637.4	39																				
				40	4 9 11	27	100	SS-15	-	0	0	62	33	5	NP	NP	NP	26	A-4a (1)					
				41																				
				42																				
@45.0'; SS-16 BECOMES VERY DENSE			627.4	43																				
				44																				
				45	11 21 24	61	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		22	A-4a (V)		
				46																				
MEDIUM DENSE TO DENSE, GRAY, SILT , LITTLE SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, INTERBEDDED, WET			627.4	47																				
				48																				
				49																				
				50	3 5 8	18	100	SS-17	-	-	-	-	-	-	-	-	-	-	-		20	A-4a (V)		
			614.2	51																				
				52																				
				53																				
				54																				
			614.2	55	12 12 12	32	100	SS-18	-	0	0	17	73	10	NP	NP	NP	19	A-4b (8)					
				56																				
				57																				
				58																				
			614.2	59																				
				60																				
				61	4 6 6	16	100	SS-19	-	-	-	-	-	-	-	-	-	-	-		26	A-4b (V)		
				EOB																				

NOTES: GROUNDWATER ENCOUNTERED AT 22.0' DURING DRILLING. CAVE DEPTH 21.5'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD)#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 417+57, 232' RT.		START: 5/20/21		END: 5/20/21		PG 2 OF 3		B-152-1-20										
MATERIAL DESCRIPTION AND NOTES			ELEV. 654.1	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO DENSE, BROWN AND BLACK BECOMING BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, DAMP TO MOIST (continued) @30.0'; SS-12 BECOMES WET			649.1	W 649.1	10	24	100	SS-12	-	-	-	-	-	-	-	-	-	19	A-3a (V)					
					8																8			
					31																			
					32																			
MEDIUM STIFF, BROWNISH GRAY, SILT , SOME CLAY, LITTLE SAND, TRACE GRAVEL, WET			647.6		1	4	100	SS-13	0.75	0	1	12	58	29	30	21	9	34	A-4b (8)					
					2																			
MEDIUM DENSE, BROWNISH GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET			625.8		2	21	100	SS-14	-	-	-	-	-	-	-	-	-	27	A-3a (V)					
					6																			
					8																			
										3	19	100	SS-15	-	-	-	-	-	-	-	-	27	A-3a (V)	
										6														
										7														
										46														
										47														
										5	25	100	SS-16	-	-	-	-	-	-	-	-	21	A-3a (V)	
										7														
										10														
										4	21	100	SS-17	-	-	-	-	-	-	-	-	19	A-3a (V)	
										6														
HARD, GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP					3	16	100	SS-18	4.50	-	-	-	-	-	-	-	-	19	A-4b (V)					
					5																			
					6																			
					60																			
					61																			

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 417+57, 232' RT.	START: 5/20/21	END: 5/20/21	PG 3 OF 3	B-152-1-20											
MATERIAL DESCRIPTION AND NOTES	ELEV. 622.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
HARD, GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP (continued)	617.6	63 64 65 66	3 6 7	19	100	SS-19	4.50	0	0	6	74	20	25	19	6	19	A-4b (8)	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 35.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 50 GAL. BENTONITE GROUT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 199+62, 147' LT.		START: 11/19/14		END: 11/19/14		PG 2 OF 2		B-153-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 645.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, WET <i>(continued)</i> @30.0'; SS-13 AND SS-14 BECOME GRAYISH BROWN			637.1	31	8 9 15	32	100	SS-13	-	-	-	-	-	-	-	-	23	A-3a (V)				
				32																		
				33																		
				34																		
				35	7 13 24	50	100	SS-14	-	-	-	-	-	-	-	-	-	-		-	23	A-3a (V)
				36																		
				37																		
DENSE TO VERY DENSE, GRAYISH BROWN, SILT , SOME TO "AND" SAND, TRACE CLAY, TRACE GRAVEL, WET @50.0'; SS-17 BECOMES LOOSE			613.9	38																		
				39																		
				40	11 15 16	42	100	SS-15	-	0	1	20	70	9	NP	NP	NP	21		A-4b (8)		
				41																		
				42																		
				43																		
				44																		
				45	12 18 20	51	100	SS-16	-	-	-	-	-	-	-	-	-	-		-	22	A-4b (V)
				46																		
				47																		
				50	2 2 2	5	100	SS-17	-	-	-	-	-	-	-	-	29	A-4b (V)				
				51																		
				52																		
				53																		
				54																		
				55																		
				56																		
				60	4 8 15	31	100	SS-19	-	-	-	-	-	-	-	-	24	A-4b (V)				
				61																		
				62																		
				63																		
				64																		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 27.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 199+06, 204' LT.		START: 11/18/14		END: 11/19/14		PG 2 OF 2		B-154-0-14												
MATERIAL DESCRIPTION AND NOTES			ELEV. 647.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL						
										GR	CS	FS	SI	CL	LL	PL	PI									
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued) @35.0'; SS-14 BECOMES GRAYISH BROWN			638.9	31	5 6 8	19	100	SS-13	-	0	4	77	16	3	NP	NP	NP	21	A-3a (0)							
				32																						
				33																						
				34																						
				35	9																					
				36	11 12	31	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		-	20	A-3a (V)			
				37																						
				38																						
				39																						
MEDIUM DENSE TO VERY DENSE, GRAYISH BROWN, SILT , SOME CLAY TRACE SAND, TRACE GRAVEL, CONTAINS NO INTACT SOIL FOR HP READINGS, DAMP TO MOIST			618.9	40	9 11 11	30	100	SS-15	-	-	-	-	-	-	-	-	-	23	A-4b (V)							
				41																						
				42																						
				43																						
				44																						
				45	13 15 23	51	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		-	22	A-4b (V)			
				46																						
				47																						
				48																						
				49																						
STIFF TO VERY STIFF, GRAYISH BROWN, SILT , SOME CLAY TRACE SAND, TRACE GRAVEL, MOIST			615.7	50	4 7 9	22	67	SS-17	-	0	0	5	72	23	25	19	6	19	A-4b (8)							
				51																						
				52																						
				53																						
				54																						
				55	10 13 17	41	100	SS-18	-	-	-	-	-	-	-	-	-	-	-		-	19	A-4b (V)			
				56																						
				57																						
				58																						
				59																						
				60	3 5 7	16	100	SS-19	2.00	0	0	1	70	29	29	19	10	23	A-4b (8)							
				61																						

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 24.5' DURING DRILLING. CAVE DEPTH 23.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>416+02, 271' LT.</u>	EXPLORATION ID
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / Z.JEWELL</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A2</u>	B-155-0-14
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>674.0 (MSL)</u> EOB: <u>62.0 ft.</u>	PAGE
START: <u>1/6/15</u> END: <u>1/12/15</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.493240, -81.679940</u>	1 OF 2

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
5.0" TOPSOIL	673.6	1	3															
HARD, BROWN AND DARK BROWN, SILT AND CLAY, SOME SAND, LITTLE GRAVEL, CONTAINS FEW ROOTS, DAMP (FILL)	672.0	2	5	14	100	SS-1	4.25	12	7	16	36	29	38	23	15	19	A-6a (8)	
LOOSE, BROWN, COARSE AND FINE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP @2.5'; SS-2 CONTAIN FEW ROOTS		3	3	8	100	SS-2	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		4	2	4														
		5	3															
		6	3	10	100	SS-3	-	12	26	51	8	3	NP	NP	NP	10	A-3a (0)	
		7																
		8	3	9	100	SS-4	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
		9	2	5														
	664.0	10																
STIFF, BROWN, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST	663.0	11	2	7	23	100	SS-5A	1.25	0	1	5	57	37	29	19	10	21	A-4b (8)
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE SILT, TRACE CLAY, DAMP	662.0	12					SS-5B	-	-	-	-	-	-	-	-	9	A-3 (V)	
STIFF, BROWN, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST	661.0	13	4	6	19	100	SS-6A	1.50	-	-	-	-	-	-	-	12	A-4b (V)	
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET TO MOIST		14					SS-6B	-	-	-	-	-	-	-	-	24	A-3 (V)	
		15	4															
		16	4	5	15	100	SS-7	-	-	-	-	-	-	-	-	13	A-3 (V)	
	657.0	17																
MEDIUM DENSE, BROWN MOTTLED WITH GRAY, SILT, SOME SAND, LITTLE CLAY, TRACE GRAVEL, DAMP		18	7	9	26	100	SS-8	-	0	1	20	60	19	23	18	5	17	A-4b (8)
		19																
	654.5	20	4	4	13	100	SS-9	-	-	-	-	-	-	-	-	14	A-3a (V)	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE TO SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET		21																
		22																
		23	7	9	26	100	SS-10	-	-	-	-	-	-	-	-	19	A-3a (V)	
		24																
		25	7	7	18	100	SS-11	-	-	-	-	-	-	-	-	28	A-3a (V)	
		26																
		27																
@27.5'; SS-12 TO SS-13 BECOME GRAYISH BROWN		28	2	4	14	100	SS-12	-	0	1	85	11	3	NP	NP	NP	22	A-3a (0)
		29																

W 649.5

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 416+02, 271' LT.		START: 1/6/15		END: 1/12/15		PG 2 OF 2		B-155-0-14						
MATERIAL DESCRIPTION AND NOTES			ELEV. 644.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)			640.7	31	3 9 11	26	100	SS-13	-	-	-	-	-	-	-	-	-	23	A-3a (V)	<>
MEDIUM DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET				635.7	35	4 10 12	28	100	SS-14	-	0	0	53	42	5	NP	NP	NP	26	A-4a (2)
VERY DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET			630.7		40	12 20 26	59	100	SS-15	-	-	-	-	-	-	-	-	-	21	A-3a (V)
MEDIUM STIFF TO VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET				615.7	45	3 5 4	12	100	SS-16	0.50	0	0	5	63	32	29	20	9	27	A-4b (8)
GRAY, SILT , LITTLE SAND, TRACE CLAY, TRACE GRAVEL, DAMP			612.0		50	5 6 8	18	100	SS-17	2.30	-	-	-	-	-	-	-	-	20	A-4b (V)
				55	6 8 10	23	100	SS-18	1.80	-	-	-	-	-	-	-	-	-	21	A-4b (V)
GRAY, SILT , LITTLE SAND, TRACE CLAY, TRACE GRAVEL, DAMP			612.0	60																<>
				61			76	ST-19	-	0	0	14	77	9	NP	NP	NP	20	A-4b (8)	<>
				62															<>	

EOB


NOTES: GROUNDWATER ENCOUNTERED AT 24.5' DURING DRILLING, 12.0' UPON COMPLETION. CAVE DEPTH 19.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PROJECT: CUY-CCG3	DRILLING FIRM / OPERATOR: BARR / T.GILBERT	DRILL RIG: CME 45B	STATION / OFFSET: 418+48, 330' LT.	EXPLORATION ID: B-156-0-14
TYPE: EMBANKMENT	SAMPLING FIRM / LOGGER: BARR / D.KLIMKOWICZ	HAMMER: CME AUTOMATIC	ALIGNMENT: RAMP A2	
PID: 82380 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 1/26/14	ELEVATION: 673.8 (MSL) EOB: 31.5 ft.	PAGE: 1 OF 2
START: 1/13/15 END: 1/13/15	SAMPLING METHOD: SPT	ENERGY RATIO (%): 77.4	LAT / LONG: 41.493907, -81.680731	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE, BROWN, REDDISH BROWN AND GRAY, GRAVEL WITH SAND, LITTLE SILT, TRACE CLAY, CONTAINS FEW ROOTS, CONCRETE AND BRICK FRAGMENTS, WET (FILL)	673.8	1	4 11 12	30	33	SS-1	-	40	17	27	11	5	NP	NP	NP	16	A-1-b (0)	<< << <<	
MEDIUM DENSE, REDDISH BROWN, GRAVEL, TRACE SAND, TRACE SILT, TRACE CLAY, COMPOSED OF BRICK FRAGMENTS, WET (FILL)	671.8	2																<< << <<	
LOOSE, BROWN AND GRAY, GRAVEL WITH SAND, TRACE SILT, TRACE CLAY, MOIST TO WET (FILL)	669.3	3	6 7 5	15	22	SS-2	-	-	-	-	-	-	-	-	-	-	18	A-1-a (V)	<< << <<
		4																<< << <<	
		5	5															<< << <<	
		6	2 2	5	0	SS-3	-	-	-	-	-	-	-	-	-	-		<< << <<	
		7																<< << <<	
		8	5 2 2	5	11	SS-4	-	-	-	-	-	-	-	-	-	-	12	A-1-b (V)	<< << <<
		9																<< << <<	
@10.0'; SS-5 CHANGES TO VERY DENSE, CONTAINS FEW ROOTS		10	2															<< << <<	
		11	14 50/3"	-	80	SS-5	-	33	20	35	9	3	NP	NP	NP	18	A-1-b (0)	<< << <<	
	661.8	12																<< << <<	
STIFF TO VERY STIFF, GRAY MOTTLED WITH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS SILT SEAMS, MOIST		13	2 5 6	14	100	SS-6	1.40	0	0	5	59	36	31	17	14	23	A-6a (10)	<< << <<	
		14																<< << <<	
		15	3			SS-7A	2.25	-	-	-	-	-	-	-	-	23	A-6a (V)	<< << <<	
	658.1	16	5 9	18	100	SS-7B	-	-	-	-	-	-	-	-	-	8	A-3 (V)	<< << <<	
MEDIUM DENSE TO DENSE, BROWN, FINE SAND, LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DRY TO DAMP		17																<< << <<	
		18	6 6 7	17	100	SS-8	-	-	-	-	-	-	-	-	-	4	A-3 (V)	<< << <<	
		19																<< << <<	
		20	5															<< << <<	
		21	10 14	31	100	SS-9	-	0	16	77	5	2	NP	NP	NP	4	A-3 (0)	<< << <<	
@22.5'; SS-10 TO SS-11 BECOME WET		22																<< << <<	
	651.3	23	5 8 8	21	100	SS-10	-	-	-	-	-	-	-	-	-	22	A-3 (V)	<< << <<	
		24																<< << <<	
		25	6															<< << <<	
		26	10 11	27	100	SS-11	-	-	-	-	-	-	-	-	-	21	A-3 (V)	<< << <<	
	646.8	27																<< << <<	
MEDIUM DENSE, BROWN BECOMING GRAY, COARSE AND FINE SAND, SOME SILT, TRACE CLAY, TRACE GRAVEL, WET		28	5 6 7	17	100	SS-12	-	0	1	64	32	3	NP	NP	NP	24	A-3a (0)	<< << <<	
		29																<< << <<	

PID: 82380	SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 418+48, 330' LT.	START: 1/13/15	END: 1/13/15	PG 2 OF 2	B-156-0-14											
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
	643.8							GR	CS	FS	SI	CL	LL	PL	PI			
	642.3	31	4 5 7	15	100	SS-13	-	-	-	-	-	-	-	-	20	A-3a (V)	<L> <V> <L>	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 10.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:19 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GIC

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 1607+41, 37' RT. START: 11/20/14 END: 11/21/14 PG 4 OF 4 B-157-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 600.2	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued)	+++++	95	7																
		96	10 15	34	100	SS-26	4.50	-	-	-	-	-	-	-	17	A-4b (V)	<V>		
		97																<V>	
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, INTERBEDDED, MOIST		596.2																	
		98																<V>	
		99																<V>	
		100	6															<V>	
		101	8 14	30	100	SS-27	2.00	0	0	1	55	44	30	18	12	20	A-6a (9)	<V>	
		102																	<V>
		103																	<V>
		104																	<V>
		105	4																<V>
106	7 9	22	100	SS-28	2.90	-	-	-	-	-	-	-	-	24	A-6a (V)	<V>			
107																	<V>		
108																		<V>	
109																		<V>	
110	4																	<V>	
111	6 10	22	100	SS-29	2.00	-	-	-	-	-	-	-	-	21	A-6a (V)	<V>			
	583.0	EOB																<V>	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 53.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\C

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 32+82, 30' LT.		START: 3/10/15		END: 3/10/15		PG 2 OF 4		B-158-0-14														
MATERIAL DESCRIPTION AND NOTES			ELEV. 648.6	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL							
											GR	CS	FS	SI	CL	LL	PL	PI										
LOOSE TO DENSE, BROWN, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO WET (continued)				648.6	31	4	6	20	100	SS-14	-	0	5	71	19	5	NP	NP	NP	24	A-3a (0)							
					32																							
					33																							
					34																							
					35	7	13	25	50	100	SS-15	-	-	-	-	-	-	-	-	-	-		-	21	A-3a (V)			
					36																							
					37																							
					38																							
					39																							
					40	7	10	11	28	100	SS-16	-	-	-	-	-	-	-	-	-	-		-	23	A-3a (V)			
MEDIUM DENSE TO DENSE, GRAY, SILT , LITTLE CLAY, LITTLE SAND, TRACE GRAVEL, MOIST TO WET				635.3	41																							
					42																							
					43																							
					44																							
					45	10	15	20	46	100	SS-17	-	-	-	-	-	-	-	-	-	-	-	20	A-4b (V)				
					46																							
					47																							
					48																							
					49																							
					50	7	9	13	29	100	SS-18	-	0	0	18	64	18	NP	NP	NP	22	A-4b (8)						
					51																							
52																												
53																												
54																												
55	10	13	13	34	100	SS-19	-	-	-	-	-	-	-	-	-	-	-	21	A-4b (V)									
56																												
57																												
58																												
59																												
60																												
61							100		SS-20	-	0	0	6	73	21	NP	NP	NP	20	A-4b (8)								

@60.0'; ST-20 BECOMES SOME CLAY, TRACE SAND

@61.6'; UNIT WEIGHT: 135.8 PCF @ 20.4% MC

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 32+82, 30' LT.		START: 3/10/15		END: 3/10/15		PG 4 OF 4		B-158-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 584.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
										GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM STIFF TO HARD, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued) @96.5'; UNIT WEIGHT: 134.1 PCF @ 19.1% MC			584.4	95																	
				96		100	SS-27	3.00	0	0	0	67	33	26	19	7	19	A-4b (8)			
				97																	
				98																	
				99																	
				100	8																
				101	12 16	37	100	SS-28	4.50	-	-	-	-	-	-	-	-	17	A-4b (V)		
				102																	
				103																	
				104																	
MEDIUM STIFF TO STIFF, GRAY, SILTY CLAY, TRACE SAND, TRACE GRAVEL, MOIST @111.6'; UNIT WEIGHT: 120.9 PCF @ 31.8% MC			570.3	105	4																
				106	6 8	18	100	SS-29	0.60	-	-	-	-	-	-	-	24	A-4b (V)			
				107																	
				108																	
				109																	
				110																	
				111			100	SS-30	1.00	1	1	2	26	70	38	21	17	32	A-6b (11)		
				112																	
EOB																					

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING. CAVE DEPTH 26.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / D.SHOPE</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>1613+12, 66' RT.</u>	EXPLORATION ID: <u>B-159-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP B6</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>672.0 (MSL)</u> EOB: <u>86.5 ft.</u>	PAGE: <u>1 OF 3</u>
START: <u>12/2/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.496483, -81.676402</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
4.5", ASPHALT	671.6																	
7.5", GRANULAR BASE	671.0	1																
MEDIUM DENSE, DARK GRAY AND BROWN, GRAVEL WITH SAND AND SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS AND CINDERS, MOIST (FILL)	667.5	2 3 4	4	12	100	SS-1	-	-	-	-	-	-	-	-	15	A-2-4 (V)		
MEDIUM DENSE, BROWN, FINE SAND, TRACE COARSE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, CONTAINS BRICK FRAGMENTS, DAMP (FILL)	665.0	5 6	3	11	100	SS-2	-	-	-	-	-	-	-	-	7	A-3 (V)		
MEDIUM DENSE, BROWN AND LIGHT BROWN AND LIGHT GRAY, SANDY SILT, TRACE CLAY, TRACE GRAVEL, CONTAINS SILT SEAMS, MOIST (FILL)	662.5	7 8 9	5	17	100	SS-3	-	2	4	54	31	9	NP	NP	NP	16	A-4a (1)	
STIFF, BROWN MOTTLED WITH GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	658.8	10 11 12	2	5	100	SS-4	1.50	1	0	4	56	39	34	19	15	24	A-6a (10)	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, DAMP	655.0	13 14 15 16	5	28	100	SS-5A	1.90	1	1	5	56	37	32	20	12	24	A-6a (9)	
						SS-5B	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
		17 18 19	7	28	100	SS-6	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND, TRACE SILT, TRACE CLAY, DRY TO DAMP	650.0	20 21 22	7	30	100	SS-7	-	23	54	12	8	3	NP	NP	NP	3	A-1-b (0)	
@20.0'; SS-8 BECOMES LOOSE																		
@21.1'; UNIT WEIGHT: 125.1 PCF @ 28.1% MC																		
VERY SOFT, BROWN, CLAY, "AND" SILT, TRACE SAND, TRACE GRAVEL, MOIST	647.5	23 24	6	8	100	SS-8	-	-	-	-	-	-	-	-	-	9	A-1-b (V)	
VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, WET	644.7	25 26 27	0	5	100	SS-9	0.15	1	0	1	36	62	43	21	22	34	A-7-6 (13)	
	644.5																	
MEDIUM DENSE, GRAY, SANDY SILT, TRACE CLAY, TRACE GRAVEL, CONTAINS SILT SEAMS, WET	642.5	28 29	2	17	100	SS-11	-	-	-	-	-	-	-	-	-	24	A-4a (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 1613+12, 66' RT.		START: 12/2/14		END: 12/3/14		PG 2 OF 3		B-159-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 642.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET (continued)			642.0	31	4 8 12	26	100	SS-12	-	-	-	-	-	-	-	-	-	22	A-3a (V)			
				32																		
				33																		
				34																		
MEDIUM DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST			633.7	35	4 7 11	24	100	SS-13	-	-	-	-	-	-	-	-	-	20	A-3a (V)			
				36																		
				37																		
				38																		
VERY STIFF TO HARD, GRAY, SILT , TRACE TO SOME SAND, LITTLE TO SOME CLAY, TRACE GRAVEL, MOIST			628.7	39																		
				40	7 8 13	28	100	SS-14	-	-	-	-	-	-	-	-	-	-	20		A-4a (V)	
				41																		
				42																		
@60.0'; UNIT WEIGHT: 131.3 PCF @ 20.8% MC VERY STIFF TO HARD, GRAY, SILT , TRACE TO SOME SAND, LITTLE TO SOME CLAY, TRACE GRAVEL, MOIST			628.7	43																		
				44																		
				45	8 10 16	34	100	SS-15	3.70	0	3	22	59	16	22	16	6	18	A-4b (8)			
				46																		
				47																		
				48																		
				49																		
				50	6 8 12	26	100	SS-16	4.00	-	-	-	-	-	-	-	-	-	19		A-4b (V)	
				51																		
				52																		
				53																		
54																						
55	9 22 22	58	100	SS-17	3.00	-	-	-	-	-	-	-	-	-	16	A-4b (V)						
56																						
57																						
58																						
59																						
60																						
61			100	ST-18	2.20	0	1	0	73	26	27	18	9	21	A-4b (8)							

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID:	SFN:	PROJECT:	STATION / OFFSET:	START:	END:	PG 3 OF 3	B-159-0-14												
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
		609.9							GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF TO HARD, GRAY, SILT, TRACE TO SOME SAND, LITTLE TO SOME CLAY, TRACE GRAVEL, MOIST (continued)			63																<>
			64																<>
			65																<>
			66	7 10 15	33	100	SS-19	2.25	-	-	-	-	-	-	-	-	20	A-4b (V)	<>
			67																<>
			68																<>
			69																<>
			70																<>
			71	10 13 18	41	100	SS-20	4.25	-	-	-	-	-	-	-	-	18	A-4b (V)	<>
			72																<>
			73																<>
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST		598.5	74																<>
			75																<>
			76	8 11 15	34	100	SS-21	3.00	0	0	1	53	46	31	19	12	22	A-6a (9)	<>
			77																<>
			78																<>
			79																<>
			80																<>
			81	8 11 15	34	100	SS-22	2.10	-	-	-	-	-	-	-	-	23	A-6a (V)	<>
			82																<>
			83																<>
			84																<>
			85																<>
			86	9 11 15	34	100	SS-23	1.50	-	-	-	-	-	-	-	-	26	A-6a (V)	<>
		585.5	EOB																<>

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING, 26.8' UPON COMPLETION. CAVE DEPTH 29.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>1616+72, 100' RT.</u>	EXPLORATION ID <u>B-160-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP B6</u>	
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>666.3 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>12/4/14</u> END: <u>12/5/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.497034, -81.675305</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL		
								GR	CS	FS	SI	CL	LL	PL	PI	WC				
4.0", TOPSOIL	666.3		2																	
MEDIUM DENSE, BROWN, BLACK AND LIGHT BROWN, COARSE AND FINE SAND , SOME GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS SLAG AND BRICK FRAGMENTS (FILL)	664.3	1	5	13	100	SS-1	-	-	-	-	-	-	-	-	-	-	9	A-3a (V)	<<<<<<	
LOOSE TO MEDIUM DENSE, BROWN AND LIGHT BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE GRAVEL, TRACE CLAY, DAMP		2																	<<<<<<	
		3	6	17	78	SS-2	-	4	5	83	7	1	NP	NP	NP		6	A-3 (0)	<<<<<<	
		4	6	7															<<<<<<	
		5	3	8	78	SS-3	-	-	-	-	-	-	-	-	-	-		6	A-3 (V)	<<<<<<
	659.3	6	3	3															<<<<<<	
VERY LOOSE TO LOOSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST		7																	<<<<<<	
		8	2	5	89	SS-4	-	-	-	-	-	-	-	-	-	-		10	A-3a (V)	<<<<<<
		9	2	2															<<<<<<	
		10	2																<<<<<<	
		11	1	4	100	SS-5	-	-	-	-	-	-	-	-	-	-		8	A-3a (V)	<<<<<<
		12	2	2															<<<<<<	
	653.3	13	6	6	94	SS-6A	-	-	-	-	-	-	-	-	-	-		6	A-3a (V)	<<<<<<
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE TO LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, DAMP		14	2	3		SS-6B	-	0	1	90	7	2	NP	NP	NP		5	A-3 (0)	<<<<<<	
		15	4																<<<<<<	
		16	5	15	78	SS-7	-	-	-	-	-	-	-	-	-	-		6	A-3 (V)	<<<<<<
		17	7																<<<<<<	
@17.5'; SS-8 BECOMES WET		18	4																<<<<<<	
		19	4	12	72	SS-8	-	-	-	-	-	-	-	-	-	-		24	A-3 (V)	<<<<<<
	646.8	20	5																<<<<<<	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET		21	4	17	100	SS-9	-	-	-	-	-	-	-	-	-	-		24	A-3a (V)	<<<<<<
		22	6	7															<<<<<<	
	644.3	23	2	30	100	SS-10	-	0	11	83	5	1	NP	NP	NP		22	A-3 (0)	<<<<<<	
MEDIUM DENSE TO DENSE, BROWN, FINE SAND , LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, WET		24	9	14															<<<<<<	
		25	8																<<<<<<	
		26	16	48	100	SS-11	-	-	-	-	-	-	-	-	-	-		21	A-3 (V)	<<<<<<
		27	21																<<<<<<	
		28	7	44	100	SS-12	-	-	-	-	-	-	-	-	-	-		24	A-3 (V)	<<<<<<
	636.8	29	14	20															<<<<<<	

W 648.8

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1616+72, 100' RT.		START: 12/4/14		END: 12/5/14		PG 2 OF 2		B-160-0-14								
MATERIAL DESCRIPTION AND NOTES			ELEV. 636.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, WET (continued)			633.0	31	5 8 12	26	100	SS-13	-	0	0	65	32	3	NP	NP	NP	24	A-3a (0)			
				32																		
				33																		
VERY DENSE, GRAYISH BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, MOIST			628.0	34																		
				35	13 18 23	53	100	SS-14	-	-	-	-	-	-	-	-	-	-	19		A-4a (V)	
				36																		
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME SAND, SOME CLAY, TRACE GRAVEL, WET			619.0	37																		
				38																		
				39																		
VERY STIFF, GRAY TO GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST @48.0'; UNIT WEIGHT: 128.5 PCF @ 23.2% MC			612.8	40	6 6 9	19	100	SS-15	-	0	0	28	51	21	21	16	5	29	A-4b (7)			
				41																		
				42																		
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	43																		
				44																		
				45	4 6 7	17	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		20	A-4b (V)
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	46																		
				47																		
				48																		
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	49			96	ST-17	2.50	0	0	4	61	35	29	17	12	23	A-6a (9)			
				50	3 5 7	15	100	SS-18	3.25	-	-	-	-	-	-	-	-	-	23		A-6a (V)	
				51																		
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	52																		
				53																		
				54	3 6 7	17	100	SS-19	-	-	-	-	-	-	-	-	-	-	21		A-4b (V)	
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	55																		
				56																		
				57																		
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	58																		
				59																		
				60	6 8 8	21	100	SS-20	-	0	0	1	70	29	25	19	6	20	A-4b (8)			
MEDIUM DENSE, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST			604.8	61																		
				62																		
				63																		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING. CAVE DEPTH 16.2'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>1616+99, 53' RT.</u>	EXPLORATION ID <u>B-161-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP B6</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>666.5 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>12/3/14</u> END: <u>12/3/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.497179, -81.675336</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
3.0", TOPSOIL	666.5		3																
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, CONTAINS FEW ROOTS, DAMP (FILL)	666.3	1	4	12	44	SS-1	-	35	16	35	11	3	NP	NP	NP	8	A-1-b (0)	<<<<<<	
VERY LOOSE TO MEDIUM DENSE, BROWN AND GRAYISH BROWN, FINE SAND , SOME COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	664.5	2																	<<<<<<
@5.0'; SS-3 BECOMES DARK BROWN		3	7	17	89	SS-2	-	-	-	-	-	-	-	-	-	9	A-3 (V)	<<<<<<	
		4	6	7															<<<<<<
		5	2																<<<<<<
		6	1	4	94	SS-3	-	19	21	53	5	2	NP	NP	NP	10	A-3 (0)	<<<<<<	
		7																	<<<<<<
		8	2																<<<<<<
		9	2	5	100	SS-4	-	-	-	-	-	-	-	-	-	9	A-3 (V)	<<<<<<	
		10																	<<<<<<
		11	3	8	50	SS-5	-	-	-	-	-	-	-	-	-	9	A-3 (V)	<<<<<<	
		12	2	4															<<<<<<
@12.5'; SS-6 BECOMES GRAYISH BROWN, TRACE GRAVEL		13	3	14	100	SS-6	-	5	26	62	6	1	NP	NP	NP	5	A-3 (0)	<<<<<<	
		14	4	7															<<<<<<
@15.0'; SS-7 BECOMES MOIST		15	5																<<<<<<
		16	5	15	100	SS-7	-	-	-	-	-	-	-	-	-	16	A-3 (V)	<<<<<<	
	649.5	17	7																<<<<<<
MEDIUM DENSE TO VERY DENSE, GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET		18	4	15	61	SS-8	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<<<<<<	
		19	5	7															<<<<<<
		20																	<<<<<<
		21	10	46	100	SS-9	-	-	-	-	-	-	-	-	-	15	A-3a (V)	<<<<<<	
		22	15	21															<<<<<<
		23	4	28	100	SS-10	-	-	-	-	-	-	-	-	-	21	A-3a (V)	<<<<<<	
		24	8	14															<<<<<<
@25.0'; SS-11 TO SS-15 BECOME GRAYISH BROWN		25																	<<<<<<
		26	8	57	100	SS-11	-	-	-	-	-	-	-	-	-	20	A-3a (V)	<<<<<<	
		27	18	26															<<<<<<
		28	6	36	100	SS-12	-	0	7	81	10	2	NP	NP	NP	19	A-3a (0)	<<<<<<	
		29	10	18															<<<<<<

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1616+99, 53' RT.		START: 12/3/14		END: 12/3/14		PG 2 OF 2		B-161-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 636.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
MEDIUM DENSE TO VERY DENSE, GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET (continued)			636.5	31	5 12 20	41	100	SS-13	-	-	-	-	-	-	-	-	-	21	A-3a (V)					
				32																				
				33																				
				34																				
				35	4 10 13	30	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		24	A-3a (V)		
				36																				
				37																				
				38																				
				39																				
MEDIUM DENSE, GRAY, SILT , LITTLE TO SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO WET @48.0'; UNIT WEIGHT: 130.1 PCF @ 21.2% MC			623.2	40	9 13 13	34	100	SS-15	-	-	-	-	-	-	-	-	-	24	A-3a (V)					
				41																				
				42																				
				43																				
				44																				
				45	3 4 7	14	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		25	A-4b (V)		
				46																				
				47																				
				48																				
STIFF TO VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			613.2	49			117	ST-17	-	0	0	2	78	20	26	21	5	21	A-4b (8)					
				50	5 7 10	22	100	SS-18	-	-	-	-	-	-	-	-	-	-	20		A-4b (V)			
				51																				
				52																				
				53																				
				54																				
				55	5 6 10	21	100	SS-19	1.40	0	0	1	74	25	28	20	8	26	26		A-4b (8)			
				56																				
				57																				
EOB			605.0	58																				
				59																				
				60	6 8 10	23	100	SS-20	2.75	-	-	-	-	-	-	-	-	-	26	A-4b (V)				
				61																				

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING. CAVE DEPTH 15.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 197+39, 180' RT.		START: 12/3/14		END: 12/4/14		PG 2 OF 2		B-162-0-14																
MATERIAL DESCRIPTION AND NOTES			ELEV. 639.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL										
										GR	CS	FS	SI	CL	LL	PL	PI													
MEDIUM DENSE TO VERY DENSE, DARK GRAY AND BROWN TO BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET (<i>continued</i>) @35.0'; SS-14 BECOMES GRAY				31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	16 20 12	41	100	SS-13	-	-	-	-	-	-	-	-	-	14	A-3a (V)											
					9 9 11	26	56	SS-14	-	-	-	-	-	-	-	-	-	-	24		A-3a (V)									
					10 20 23	55	100	SS-15	-	-	-	-	-	-	-	-	-	-	21		A-3a (V)									
					STIFF TO HARD, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST				45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	6 7 7	18	72	SS-16	1.90	0	1	3	70	26		26	19	7	23	A-4b (8)					
										2 6 8	18	100	SS-17	3.50	-	-	-	-	-		-	-	-	19	A-4b (V)					
										6 9 12	27	100	SS-18	4.25	1	0	5	69	25		27	19	8	19	A-4b (8)					
										STIFF, GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, DAMP				60 61	4 5 7	15	100	SS-19	1.70		-	-	-	-	-	-	-	-	22	A-6a (V)

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 20.0' DURING DRILLING. CAVE DEPTH 20.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>1618+99, 187' RT.</u>	EXPLORATION ID <u>B-163-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP B6</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>666.5 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>12/4/14</u> END: <u>12/4/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.497197, -81.674502</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
<p>4.0", TOPSOIL</p> <p>VERY LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND, TRACE SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO MOIST (FILL)</p> <p>@7.5'; SS-4 TO SS-6 BECOME SOME GRAVEL</p>	666.5	666.2	2																
			1	2	8	94	SS-1	-	-	-	-	-	-	-	-	10	A-3a (V)	<<<>>>	
			2	4														<<<>>>	
			3	5	12	94	SS-2	-	3	11	75	8	3	NP	NP	NP	9	A-3a (0)	<<<>>>
			4	4														<<<>>>	
			5	3														<<<>>>	
			6	3	8	89	SS-3	-	-	-	-	-	-	-	-	8	A-3a (V)	<<<>>>	
			7															<<<>>>	
			8	3	5	94	SS-4	-	-	-	-	-	-	-	-	11	A-3a (V)	<<<>>>	
			9	2														<<<>>>	
			10	1														<<<>>>	
			11	2	4	100	SS-5	-	-	-	-	-	-	-	-	12	A-3a (V)	<<<>>>	
			12															<<<>>>	
			13	2	4	89	SS-6	-	-	-	-	-	-	-	-	9	A-3a (V)	<<<>>>	
	652.0	14	1														<<<>>>		
<p>MEDIUM DENSE TO DENSE, BROWN, FINE SAND, SOME COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP</p> <p>@17.5'; SS-8 TO SS-13 BECOME WET</p> <p>@22.5'; SS-10 TO SS-13 BECOME GRAYISH BROWN, TRACE COARSE SAND, TRACE GRAVEL</p>			5																
			15	8	21	89	SS-7	-	14	35	43	6	2	NP	NP	NP	8	A-3 (0)	<<<>>>
			16	8															<<<>>>
		W 649.5	17																<<<>>>
			18	7	23	94	SS-8	-	-	-	-	-	-	-	-	21	A-3 (V)	<<<>>>	
			19	7															<<<>>>
			20	11															<<<>>>
			21	5	25	100	SS-9	-	-	-	-	-	-	-	-	24	A-3 (V)	<<<>>>	
			22	8															<<<>>>
			23	11															<<<>>>
			24	7	49	100	SS-10	-	-	-	-	-	-	-	-	20	A-3 (V)	<<<>>>	
			25	15															<<<>>>
			26	23															<<<>>>
			27	6	36	100	SS-11	-	0	3	87	8	2	NP	NP	NP	22	A-3 (0)	<<<>>>
			28	12															<<<>>>
		29	16															<<<>>>	
			4	25	100	SS-12	-	-	-	-	-	-	-	-	20	A-3 (V)	<<<>>>		
			7															<<<>>>	
			12															<<<>>>	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 1618+99, 187' RT.		START: 12/4/14		END: 12/4/14		PG 2 OF 2		B-163-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV. 636.5	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
											GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO DENSE, BROWN, FINE SAND, SOME COARSE SAND, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP (continued)			633.2	31	7	10	32	100	SS-13	-	-	-	-	-	-	-	-	-	23	A-3 (V)	↖ ↗
				32		15															
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SILT, SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET			620.2	35	9	12	34	100	SS-14	-	-	-	-	-	-	-	-	-	24	A-4b (V)	↖ ↗
				36		14															
MEDIUM STIFF TO STIFF, GRAYISH BROWN, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			614.2	40	4	9	22	100	SS-15	-	0	0	34	53	13	NP	NP	NP	25	A-4b (6)	↖ ↗
				41		8															
MEDIUM STIFF TO STIFF, GRAYISH BROWN, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, WET			614.2	45	5	6	18	100	SS-16A	-	-	-	-	-	-	-	-	-	20	A-4b (V)	↖ ↗
				46		8					SS-16B	1.25	-	-	-	-	-	-	-	-	
STIFF TO VERY STIFF, GRAYISH BROWN, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST @53.0'; UNIT WEIGHT: 127.2 PCF @ 23.5% MC			605.0	50	3	6	18	100	SS-17	1.00	-	-	-	-	-	-	-	-	23	A-4b (V)	↖ ↗
				51		8															
			605.0	53				100	ST-18	1.25	0	1	0	59	40	31	18	13	24	A-6a (9)	↖ ↗
				54																	
			605.0	55	4	6	18	100	SS-19	2.10	-	-	-	-	-	-	-	-	21	A-6a (V)	↖ ↗
				56		8															
			605.0	60	5	9	28	100	SS-20	2.80	-	-	-	-	-	-	-	-	21	A-6a (V)	↖ ↗
				61		13															

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 17.0' DURING DRILLING. CAVE DEPTH 17.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 578+19, 7' RT.		START: 12/9/14		END: 12/9/14		PG 2 OF 2		B-164-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 665.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL				
										GR	CS	FS	SI	CL	LL	PL	PI							
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, MOIST (continued) (FILL) @35.0'; SS-13 CONTAINS 2 RED BRICK FRAGMENTS			665.5	31	4 3	9	100	SS-12	-	-	-	-	-	-	-	-	-	11	A-3a (V)	<\/td>				
				32																				
				33																				
				34																				
				35	6																			
				36	6 7	20	11	SS-13	-	-	-	-	-	-	-	-	-	-	-		-	11		
LOOSE, BROWN, COARSE AND FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, MOIST TO WET @45.0'; SS-15 TO SS-17 BECOME MEDIUM DENSE TO DENSE @50.0'; SS-16 TO SS-17 BECOME BROWN AND GRAY			657.2																					
			38																					
			39																					
			40	2																				
			41	3 3	9	100	SS-14	-	-	-	-	-	-	-	-	-	-	-	-	10	A-3a (V)			
			42																					
			43																					
			44																					
			45	6																				
			46	7 12	29	100	SS-15	-	3	21	63	9	4	NP	NP	NP			15	A-3a (0)				
47																								
48																								
49																								
50	3																							
51	2 8	15	100	SS-16	-	-	-	-	-	-	-	-	-	-	-	-	23	A-3a (V)						
52																								
53																								
54																								
55	9																							
56	12 12	36	100	SS-17	-	-	-	-	-	-	-	-	-	-	-	-	18	A-3a (V)						
57																								
58																								
DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET			637.0																					
			59																					
			60	6																				
			634.0																					
				EOB	10 16	39	100	SS-18	-	0	0	49	44	7	NP	NP	NP	24	A-4a (3)					

NOTES: GROUNDWATER ENCOUNTERED AT 39.8' DURING DRILLING. CAVE DEPTH 32.3'

ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED .5 BAG CEMENT; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>579+39, 9' LT.</u>	EXPLORATION ID <u>B-165-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>RAMP A3</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>692.6 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/24/14</u> END: <u>11/24/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.495312, -81.681029</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
13.0", CONCRETE	692.6																		
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	691.5	1																	
		2																	
		3	6	10	26	94	SS-1	-	-	-	-	-	-	-	4	A-1-b (V)			
		4		10															
		5	7																
		6	8	9	22	89	SS-2	-	22	45	28	4	1	NP	NP	NP	4	A-1-b (0)	
		7																	
		8	7	10	27	100	SS-3	-	-	-	-	-	-	-	-	4	A-1-b (V)		
		9		11															
		10	7	4	10	18	100	SS-4	-	-	-	-	-	-	-	5	A-1-b (V)		
		11																	
		12																	
		13	9	11	28	100	SS-5	-	-	-	-	-	-	-	-	6	A-1-b (V)		
	678.1	14		11															
DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, DAMP (FILL)		15	21	30	77	100	SS-6	-	23	13	41	19	4	NP	NP	NP	9	A-3a (0)	
		16		30															
		17																	
@17.5'; SS-7 CONTAINS CONCRETE FRAGMENTS		18	11	16	46	94	SS-7	-	-	-	-	-	-	-	-	10	A-3a (V)		
		19		20															
@20.0'; SS-8 CHANGES TO BROWN AND BLACK		20	17	24	59	89	SS-8	-	-	-	-	-	-	-	-	9	A-3a (V)		
		21		22															
	670.6	22																	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST		23	5	5	13	100	SS-9	-	-	-	-	-	-	-	-	8	A-3a (V)		
		24		5															
		25	4	4	12	100	SS-10	-	4	8	60	19	9	NP	NP	NP	12	A-3a (0)	
		26		5															
		27																	
		28	8	12	34	100	SS-11	-	-	-	-	-	-	-	-	4	A-3a (V)		
		29		14															

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 579+39, 9' LT.		START: 11/24/14		END: 11/24/14		PG 2 OF 2		B-165-0-14							
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS		SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
											GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST (continued)			662.6	31	6	5	12	89	SS-12	-	-	-	-	-	-	-	-	-	5	A-3a (V)	<>
STIFF TO VERY STIFF, BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, WET TO MOIST			659.3	32																	<>
				33																	<>
				34																	<>
				35	2	2	8	94	SS-13	2.10	-	-	-	-	-	-	-	-	33	A-6a (V)	<>
				36		4															<>
				37																	<>
@38.4'; UNIT WEIGHT: 124.3 PCF @ 24.7% MC			653.6	38					SS-14A	1.25	0	0	3	64	33	34	22	12	25	A-6a (9)	<>
MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, DAMP				39				100	SS-14B	-	0	3	87	8	2	NP	NP	NP	12	A-3 (0)	<>
				40	7	10	26	100	SS-15	-	-	-	-	-	-	-	-	-	6	A-3 (V)	<>
				41		10															<>
				42																	<>
			649.3	43																	<>
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET				44																	<>
				45	7	7	15	50	SS-16	-	-	-	-	-	-	-	-	-	18	A-3a (V)	<>
				46		5															<>
				47																	<>
				48																	<>
				49																	<>
@50.0'; SS-17 BECOMES GRAYISH BROWN				50	6	9	34	100	SS-17	-	0	1	79	18	2	NP	NP	NP	23	A-3a (0)	<>
				51		17															<>
				52																	<>
			639.3	53																	<>
MEDIUM DENSE, GRAY, SILT , SOME SAND, TRACE CLAY, TRACE GRAVEL, WET				54																	<>
				55	4	8	26	100	SS-18	-	-	-	-	-	-	-	-	-	25	A-4b (V)	<>
				56		12															<>
				57																	<>
				58																	<>
				59																	<>
				60	5	9	27	100	SS-19	-	0	0	29	65	6	NP	NP	NP	26	A-4b (7)	<>
			631.1	61		12															<>

NOTES: GROUNDWATER ENCOUNTERED AT 43.0' DURING DRILLING, 48.0' UPON COMPLETION. CAVE DEPTH 49.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>581+00, 22' LT.</u>	EXPLORATION ID <u>B-166-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>RAMP A3</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>687.0 (MSL)</u> EOB: <u>61.5 ft.</u>	
START: <u>11/24/14</u> END: <u>11/25/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.495547, -81.680532</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG				ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI	WC			
12.0", CONCRETE	687.0																		
12.0", GRANULAR BASE	686.0	1																	
MEDIUM DENSE, BROWN, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	685.0	2																	
		3	12	8	24	78	SS-1	-	-	-	-	-	-	-	-	7	A-1-b (V)		
		4																	
		5																	
		6	21	6	20	56	SS-2	-	-	-	-	-	-	-	-	5	A-1-b (V)		
		7																	
		8	6	7	21	100	SS-3	-	19	45	31	4	1	NP	NP	NP	5	A-1-b (0)	
		9																	
		10																	
		676.9	11	5	4	17	67	SS-4	-	-	-	-	-	-	-	-	5	A-1-b (V)	
@12.5'; SS-5 CHANGES TO GRAYISH BROWN		12																	
	672.5	13	2	4	27	100	SS-5	-	38	34	21	5	2	NP	NP	NP	10	A-1-b (0)	
		14																	
DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND , SOME SILT, LITTLE GRAVEL, LITTLE CLAY, DAMP TO MOIST (POSSIBLE FILL)		15	7	14	48	100	SS-6	-	-	-	-	-	-	-	-	9	A-3a (V)		
@17.5'; SS-7 CHANGES TO BROWN AND GRAY		16																	
	667.5	17																	
		18	18	35	116	100	SS-7	-	-	-	-	-	-	-	-	11	A-3a (V)		
		19																	
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, DAMP		20	13	16	45	100	SS-8	-	5	10	68	12	5	NP	NP	NP	8	A-3a (0)	
		21																	
		22																	
		23	4	5	14	100	SS-9	-	-	-	-	-	-	-	-	9	A-3a (V)		
		24																	
		25																	
		26	5	8	24	100	SS-10	-	-	-	-	-	-	-	-	5	A-3a (V)		
	660.0	27																	
MEDIUM DENSE, BROWN AND GRAY, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET		28	2	4	12	100	SS-11	-	1	0	6	74	19	27	22	5	28	A-4b (8)	
	657.5	29																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380		SFN:		PROJECT: CUY-CCG3		STATION / OFFSET: 581+00, 22' LT.		START: 11/24/14		END: 11/25/14		PG 2 OF 2		B-166-0-14															
MATERIAL DESCRIPTION AND NOTES			ELEV. 657.0	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL									
										GR	CS	FS	SI	CL	LL	PL	PI												
BROWN AND GRAY, SILT, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET (continued) @31.6'; UNIT WEIGHT: 126.6 PCF @ 25.6% MC			657.7	31			100	ST-12	-	0	0	2	87	11	NP	NP	NP	26	A-4b (8)	<>									
MEDIUM DENSE TO VERY DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET @40.0'; SS-14 TO SS-17 BECOMES GRAYISH BROWN				653.7	32																<>								
			653.7		33																<>								
					653.7	34																<>							
						653.7	35	4															<>						
							653.7	36	4 8	18	100	SS-13	-	-	-	-	-	-	-	-	-	24	A-3a (V)	<>					
								653.7	37																<>				
									653.7	38																<>			
										653.7	39																<>		
											653.7	40	4															<>	
												653.7	41	5 12	26	100	SS-14	-	-	-	-	-	-	-	-	-	23	A-3a (V)	<>
													653.7	42															
				653.7										43															
			653.7											44															
					653.7									45	7														
						653.7								46	10 13	35	100	SS-15	-	0	2	80	15	3	NP	NP	NP	22	A-3a (0)
							653.7							47															
								653.7						48															
									653.7					49															
										653.7				50	11														
											653.7			51	17 18	53	100	SS-16	-	-	-	-	-	-	-	-	-	20	A-3a (V)
												653.7		52															
													653.7	53															
				653.7										54															
			653.7											55	4														
					653.7									56	8 14	33	100	SS-17	-	-	-	-	-	-	-	-	-	26	A-3a (V)
						653.7								57															
							653.7							58															
STIFF, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST								628.5						59															
									628.5					60	5														
										628.5				61	6 6	18	100	SS-18	1.30	0	0	6	71	23	26	18	8	20	A-4b (8)

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 10.1' DURING DRILLING, 10.0' UPON COMPLETION. CAVE DEPTH 19.9'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SOIL MIXED WITH 1 BAG CEMENT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:21 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / P.STROUD</u>	DRILL RIG: <u>MOBILE B-58</u>	STATION / OFFSET: <u>204+04, 92' LT.</u>	EXPLORATION ID
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / C. PIERCE</u>	HAMMER: <u>MOBILE AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	B-167-0-14
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>671.9 (MSL)</u> EOB: <u>61.5 ft.</u>	PAGE 1 OF 2
START: <u>11/20/14</u> END: <u>11/21/14</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>90*</u>	LAT / LONG: <u>41.498878, -81.673419</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
DENSE, GRAY, GRAVEL WITH SAND , TRACE SILT, TRACE CLAY, DAMP (FILL)	671.9		8																
		1	9	42	89	SS-1	-	46	22	21	8	3	NP	NP	NP	10	A-1-b (0)	<< <	>> >
	669.9	2																<< <	>> >
VERY DENSE, BROWN AND GRAY, COARSE AND FINE SAND , SOME SILT, LITTLE GRAVEL, TRACE CLAY, DAMP (FILL)		3	18	56	44	SS-2	-	-	-	-	-	-	-	-	-	8	A-3a (V)	<< <	>> >
		4	18															<< <	>> >
		5	5															<< <	>> >
	664.9	6	25	87	50	SS-3	-	13	18	39	21	9	NP	NP	NP	9	A-3a (0)	<< <	>> >
		7	33															<< <	>> >
NO RECOVERY, CONCRETE RUBBLE , (DRILLERS DESCRIPTION OF CUTTINGS) (FILL)	662.4	8		0		SS-4	-	-	-	-	-	-	-	-	-	-		<< <	>> >
		9																<< <	>> >
DENSE, BROWN, DARK GRAY, AND BLACK, GRAVEL WITH SAND , LITTLE SILT, TRACE CLAY, DAMP (FILL)	659.9	10	16	38	100	SS-5	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	<< <	>> >
		11	14															<< <	>> >
	657.4	12	15	62	100	SS-6	-	-	-	-	-	-	-	-	-	13	A-4a (V)	<< <	>> >
VERY DENSE, BROWN AND DARK GRAY, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, CONTAINS FEW BRICK FRAGMENTS, DAMP (FILL)	657.4	13	19															<< <	>> >
		14	22															<< <	>> >
VERY DENSE, BROWN, SANDY SILT , LITTLE GRAVEL, LITTLE CLAY, CONTAINS PETROLEUM ODOR, DAMP (POSSIBLE FILL)	654.9	15	16	53	100	SS-7	-	-	-	-	-	-	-	-	-	11	A-4a (V)	<< <	>> >
		16	16															<< <	>> >
	651.9	17																<< <	>> >
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP	647.4	18	6	27	100	SS-8	-	11	14	55	15	5	NP	NP	NP	10	A-3a (0)	<< <	>> >
		19	8															<< <	>> >
		20	5															<< <	>> >
		21	7	24	100	SS-9	-	-	-	-	-	-	-	-	-	9	A-3a (V)	<< <	>> >
		22																<< <	>> >
		23	4	15	100	SS-10	-	-	-	-	-	-	-	-	-	5	A-3a (V)	<< <	>> >
	647.4	24	5															<< <	>> >
MEDIUM DENSE, BROWN, SILT , LITTLE CLAY, TRACE SAND, TRACE GRAVEL, WET	644.9	25	3	12	100	SS-11	-	5	4	6	70	15	NP	NP	NP	23	A-4b (8)	<< <	>> >
		26	3															<< <	>> >
		27	5															<< <	>> >
MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, DAMP		28	3	15	100	SS-12	-	-	-	-	-	-	-	-	-	11	A-3 (V)	<< <	>> >
		29	4															<< <	>> >
			6															<< <	>> >

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:21 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 204+04, 92' LT.		START: 11/20/14		END: 11/21/14		PG 2 OF 2		B-167-0-14										
MATERIAL DESCRIPTION AND NOTES			ELEV. 641.9	DEPTHS		SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
											GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, DAMP (continued) @35.0'; SS-14 BECOMES GRAYISH BROWN, WET			633.6	31	5	8	27	100	SS-13	-	-	-	-	-	-	-	-	6	A-3 (V)					
				32																				
				33																				
				34																				
				35	4	4	15	100	SS-14	-	0	3	91	4	2	NP	NP	NP	24		A-3 (0)			
MEDIUM DENSE, GRAYISH BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET TO MOIST @50.0'; SS-17 BECOMES DENSE, SOME SILT			618.6	36																				
				37																				
				38																				
				39																				
				40	3	3	15	100	SS-15	-	-	-	-	-	-	-	-	-	-		45	A-3a (V)		
				41																				
				42																				
				43																				
				44																				
				45	3	5	18	100	SS-16	-	-	-	-	-	-	-	-	-	-		22	A-3a (V)		
46																								
47																								
48																								
49																								
50	8	11	38	100	SS-17	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)							
51																								
52																								
53																								
54																								
55	9	11	32	100	SS-18	-	-	-	-	-	-	-	-	-	-	25	A-4b (V)							
56																								
57																								
58																								
59																								
60	4	7	21	100	SS-19	-	0	0	5	78	17	25	20	5	22	A-4b (8)								
61																								

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING, DRY AFTER DRILLING. CAVE DEPTH 19.6'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 55+66, 74' RT. START: 3/9/21 END: 3/9/21 PG 3 OF 3 B-168-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 609.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	608.8	63																
		64																
VERY STIFF, GRAY, SILT, SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST	603.8	65	0															
		66	4	15	100	SS-25	0.75	0	0	8	56	36	30	19	11	25	A-6a (8)	
		67																
		68																
		69																
		70	6															
		71	4	13	100	SS-26	3.75	-	-	-	-	-	-	-	-	22	A-4b (V)	
		72																
		73																
		74																
		75	5															
		76	4	13	100	SS-27	3.00	0	0	2	65	33	29	20	9	22	A-4b (8)	
		77																
		78																
		79	6															
		80	6	15	100	SS-28	2.25	-	-	-	-	-	-	-	-	23	A-4b (V)	
	592.1	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 27.5' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 180 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 45B</u>	STATION / OFFSET: <u>56+24, 53' RT.</u>	EXPLORATION ID <u>B-169-0-14</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.LYON</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 2
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>671.9 (MSL)</u> EOB: <u>61.0 ft.</u>	
START: <u>11/18/14</u> END: <u>11/18/14</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>77.4</u>	LAT / LONG: <u>41.499079, -81.673039</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
3.0" ASPHALT MEDIUM DENSE, DARK BROWN, COARSE AND FINE SAND , LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, CONTAINS BRICK FRAGMENTS, MOIST (FILL) @2.5'; SS-2 CHANGES TO BROWN	671.9																		
	671.7	1	6	21	56	SS-1	-	14	23	43	13	7	NP	NP	NP	11	A-3a (0)		
		2	8	8															
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , SOME COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP	667.4	3	7	26	83	SS-2	-	-	-	-	-	-	-	-	-	11	A-3a (V)		
		4	8	12															
		5	4																
		6	7	18	83	SS-3	-	-	-	-	-	-	-	-	-	7	A-3 (V)		
		7	7																
		8	4																
		9	5	14	83	SS-4	-	-	-	-	-	-	-	-	-	5	A-3 (V)		
		10	6																
		11	3	4	10	72	SS-5	-	9	35	50	4	2	NP	NP	NP	5	A-3 (0)	
		12	4																
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST	659.9	13	3	10	89	SS-6	-	-	-	-	-	-	-	-	-	8	A-3a (V)		
		14	4																
		15	7																
		16	4	13	100	SS-7	-	-	-	-	-	-	-	-	-	15	A-3a (V)		
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, TRACE COARSE SAND, DAMP @22.5'; SS-10 BECOMES DENSE @25.0'; SS-11 TO SS-13 BECOME MEDIUM DENSE	654.9	17																	
		18	3	5	12	78	SS-8	-	-	-	-	-	-	-	-	7	A-3 (V)		
		19	4																
		20	8																
		21	4	10	89	SS-9	-	-	-	-	-	-	-	-	-	4	A-3 (V)		
		22	4																
		23	9	15	43	94	SS-10	-	1	1	89	6	3	NP	NP	NP	5	A-3 (0)	
		24	18																
		25	8	9	22	94	SS-11	-	-	-	-	-	-	-	-	5	A-3 (V)		
		26	8																
		27																	
		28	7	6	22	100	SS-12	-	-	-	-	-	-	-	-	10	A-3 (V)		
	29	11																	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\G

PID: 82380 SFN: PROJECT: CUY-CCG3 STATION / OFFSET: 56+24, 53' RT. START: 11/18/14 END: 11/18/14 PG 2 OF 2 B-169-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV. 641.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE CLAY, TRACE GRAVEL, TRACE COARSE SAND, DAMP (continued) @30.0'; SS-13 CONTAINS NO RECOVERY MEDIUM DENSE TO DENSE, GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST TO WET	639.9	31	5 4	8	15	0	SS-13	-	-	-	-	-	-	-	-	-	-	-	
		32																	
		33																	
		34																	
		35		8															
		36		11 16		35	100	SS-14	-	-	-	-	-	-	-	-	22	A-4a (V)	
		37																	
		38																	
		39																	
		40		4															
	41		7 11		23	100	SS-15	-	-	-	-	-	-	-	-	24	A-4a (V)		
	42																		
	43																		
	44																		
	45		7																
	46		11 14		32	100	SS-16	-	-	-	-	-	-	-	-	26	A-4a (V)		
	47																		
	48																		
	49					100	ST-17	-	0	1	61	32	6	NP	NP	NP	23	A-4a (1)	
	622.4																		
VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST		50	10																
		51	7 8		19	100	SS-18	-	-	-	-	-	-	-	-	21	A-4b (V)		
		52																	
		53																	
		54																	
		55		5															
		56		6 11		22	100	SS-19	3.75	0	0	2	69	29	29	19	10	18	A-4b (8)
		57																	
		58																	
		59																	
	610.9		6																
		60	8 8		21	100	SS-20	2.10	-	-	-	-	-	-	-	22	A-4b (V)		
		61																	

NOTES: GROUNDWATER ENCOUNTERED AT 33.4' DURING DRILLING, 32.0' UPON COMPLETION. CAVE DEPTH 28.9'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .25 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A - MOD#7)

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 204+60, 15' RT. START: 3/8/21 END: 3/8/21 PG 3 OF 3 B-169-1-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 583.1	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF TO HARD, GRAY, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO DAMP (continued)		63																
		64																
		65	5															
		66	6 8	21	100	SS-22	2.75	0	0	1	55	44	30	20	10	21	A-4b (8)	
		67																
		68																
		69																
		70	6															
		71	8 14	33	100	SS-23	2.25	-	-	-	-	-	-	-	-	21	A-4b (V)	
		72																
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST		73																
		74																
		75	7															
		76	8 16	36	100	SS-24	3.25	-	-	-	-	-	-	-	-	19	A-4b (V)	
		77																
		78																
		79																
		80	6															
		81	9 13	33	100	SS-25	4.50	-	-	-	-	-	-	-	-	19	A-4b (V)	
		82																
	83																	
	84	7																
	85	10 14	36	100	SS-26	2.00	0	0	1	45	54	32	21	11	23	A-6a (8)		

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 180 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / ASHBAUGH</u>	DRILL RIG: <u>CME 55T</u>	STATION / OFFSET: <u>206+66, 42' LT.</u>	EXPLORATION ID <u>B-169-2-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / ASHBAUGH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>640.8 (MSL)</u> EOB: <u>31.5 ft.</u>	PAGE 1 OF 2
START: <u>6/23/21</u> END: <u>6/23/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>68.4</u>	LAT / LONG: <u>41.499044, -81.672487</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
8.5" ASPHALT AND 7.0" CONCRETE AND 9.5" BASE (DRILLERS DESCRIPTION)	640.8																	[Cross-hatch pattern]	
	638.7	1																[Cross-hatch pattern]	
LOOSE TO MEDIUM DENSE, BROWNISH GRAY, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET		2																[Sandy silt pattern]	
			3	5														[Sandy silt pattern]	
			4	8	21	67	SS-1	-	-	-	-	-	-	-	-	21		[Sandy silt pattern]	
			5															[Sandy silt pattern]	
			6	4														[Sandy silt pattern]	
			7	7	16	56	SS-2	-	-	-	-	-	-	-	-	21		[Sandy silt pattern]	
			8	5														[Sandy silt pattern]	
			9	5	10	56	SS-3	-	3	3	57	32	5	NP	NP	NP	23		[Sandy silt pattern]
			10															[Sandy silt pattern]	
			11	4	6	16	67	SS-4	-	-	-	-	-	-	-	-	27		[Sandy silt pattern]
			12															[Sandy silt pattern]	
		13	7	6	15	61	SS-5	-	-	-	-	-	-	-	-	26		[Sandy silt pattern]	
		14															[Sandy silt pattern]		
		15															[Sandy silt pattern]		
		16	6	7	18	89	SS-6	-	-	-	-	-	-	-	-	28		[Sandy silt pattern]	
		17															[Sandy silt pattern]		
		18	5	6	13	50	SS-7	-	-	-	-	-	-	-	-	21		[Sandy silt pattern]	
		19															[Sandy silt pattern]		
		20	4	5	14	56	SS-8	-	-	-	-	-	-	-	-	22		[Sandy silt pattern]	
	618.8	21															[Sandy silt pattern]		
		22															[Sandy silt pattern]		
VERY STIFF, GRAY, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, MOIST		23	6	5	11	61	SS-9	4.00	0	6	18	57	19	23	18	5	20		[Stiff silt pattern]
			24																[Stiff silt pattern]
			25	7	9	21	67	SS-10	4.00	-	-	-	-	-	-	-	20		[Stiff silt pattern]
	613.8	26															[Stiff silt pattern]		
		27															[Stiff silt pattern]		
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , SOME SILT, TRACE CLAY, TRACE GRAVEL, MOIST		28	8	10	24	72	SS-11	-	-	-	-	-	-	-	-	18		[Medium dense sand pattern]	
		611.3	29														[Medium dense sand pattern]		

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:27 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 206+66, 42' LT.	START: 6/23/21	END: 6/23/21	PG 2 OF 2	B-169-2-20													
MATERIAL DESCRIPTION AND NOTES			ELEV. 610.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
										GR	CS	FS	SI	CL	LL	PL	PI			
VERY STIFF, GRAY, SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, MOIST (continued)			609.3	31	7 6 10	18	78	SS-12	3.00	0	5	13	58	24	25	17	8	20	A-4b (8)	CLAY < B CLAY < B

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 12.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>205+22, 18' LT.</u>	EXPLORATION ID <u>B-169-3-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 2
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>646.3 (MSL)</u> EOB: <u>30.5 ft.</u>	
START: <u>5/21/21</u> END: <u>5/21/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.498821, -81.672206</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM DENSE TO DENSE, BROWN BECOMING BROWNISH GRAY, COARSE AND FINE SAND , LITTLE TO SOME SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO MOIST @7.5'; BECOMES WET	646.3	1																
		2																
		3	8	10	31	100	SS-1	-	-	-	-	-	-	-	9		A-3a (V)	
		4																
		5	7	10	33	100	SS-2	-	-	-	-	-	-	-	11		A-3a (V)	
		6																
		7																
		8	5	7	25	44	SS-3	-	-	-	-	-	-	-	16		A-3a (V)	
		9																
		10	7	10	31	56	SS-4	-	-	-	-	-	-	-	28		A-3a (V)	
		11																
		12																
	13	3	8	25	100	SS-5	-	-	-	-	-	-	-	27		A-3a (V)		
	14																	
	15	4	6	21	100	SS-6	-	-	-	-	-	-	-	24		A-3a (V)		
	16																	
	17																	
	18	8	9	33	89	SS-7	-	-	-	-	-	-	-	22		A-3a (V)		
	19																	
	626.8																	
MEDIUM DENSE TO DENSE, GRAY, SILT , SOME SAND, TRACE TO LITTLE CLAY, TRACE GRAVEL, CONTAINS TRACE IRON STAINING, WET		20	10	11	40	56	SS-8	-	1	0	30	65	4	NP	NP	NP	22	A-4b (7)
		21																
		22																
		23	4	8	21	100	SS-9	-	1	1	21	62	15	NP	NP	NP	22	A-4b (8)
		24																
	621.8																	
VERY STIFF, GRAY, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, CONTAINS TRACE IRON STAINING, MOIST		25	9	9	22	100	SS-10	3.00	-	-	-	-	-	-	-	-	23	A-4b (V)
		26																
		27																
		28	9	8	27	100	SS-11	3.00	-	-	-	-	-	-	-	-	21	A-4b (V)
		29																
			8	9	27	100	SS-12	2.75	0	1	7	65	27	29	20	9	21	A-4b (8)

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 205+22, 18' LT.	START: 5/21/21	END: 5/21/21	PG 2 OF 2	B-169-3-20												
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
									GR	CS	FS	SI	CL	LL	PL	PI			
		616.3																	
		615.8	EOB		9													< 100 < 10	

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 58+86, 5' LT. START: 4/19/21 END: 4/19/21 PG 4 OF 4 B-169-4-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 575.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED	
								GR	CS	FS	SI	CL	LL	PL	PI				
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)	571.5	95	7																
		96	8 9	19	100	SS-27	2.25	-	-	-	-	-	-	-	26	A-6a (V)			
		97																	
VERY STIFF TO HARD, GRAY, SILT, SOME TO "AND" CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST	556.5	98																	
		99																	
		100	7																
		101	6 7	15	100	SS-28	4.50	0	0	0	64	36	29	20	9	20	A-4b (8)		
		102																	
		103																	
		104																	
		105	6																
		106	8 6	16	100	SS-29	4.50	-	-	-	-	-	-	-	-	19	A-4b (V)		
		107																	
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST	548.3	108																	
		109																	
		110	8																
		111	8 9	19	100	SS-30	2.25	0	1	3	52	44	29	19	10	23	A-4b (8)		
		112																	
113																			
114																			
115	7																		
116	9 9	21	100	SS-31	1.50	0	3	6	45	46	32	17	15	22	A-6a (10)				
117																			
118																			
119																			
120	6																		
121	8 9	19	100	SS-32	3.00	-	-	-	-	-	-	-	-	24	A-6a (V)				

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 28.2' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 250 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>208+55, 70' RT.</u>	EXPLORATION ID <u>B-169-5-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 EB</u>	PAGE 1 OF 3
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>660.9 (MSL)</u> EOB: <u>85.0 ft.</u>	
START: <u>3/5/21</u> END: <u>3/5/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.499109, -81.670990</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED		
								GR	CS	FS	SI	CL	LL	PL	PI					
8.0" ASPHALT AND 6.0" BASE (DRILLERS DESCRIPTION)	660.9																	X		
LOOSE TO MEDIUM DENSE, BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, CONTAINS TRACE IRON STAINING, DAMP TO MOIST	659.7	1																		
		2																		
		3	12	6	8	21	100	SS-1	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		4																		
		5	14	5	4	13	100	SS-2	-	9	24	45	14	8	NP	NP	NP	10	A-3a (0)	
STIFF TO VERY STIFF, BROWNISH GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST TO WET	652.4	8	3	2	7	100	SS-3A	-	-	-	-	-	-	-	-	-	-	15	A-3a (V)	
		9	3	2			SS-3B	1.75	-	-	-	-	-	-	-	-	-	28	A-6a (V)	
	650.4	10	2	2			SS-4A	2.00	-	-	-	-	-	-	-	-	-	24	A-6a (V)	
LOOSE TO DENSE, BROWNISH GRAY BECOMING GRAY, COARSE AND FINE SAND , TRACE TO LITTLE GRAVEL, LITTLE SILT, TRACE CLAY, DAMP TO MOIST		11	2	2	6	12	100	SS-4B	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
		12																		
		13	3	5	10	22	89	SS-5	-	-	-	-	-	-	-	-	-	4	A-3a (V)	
		14																		
		15	2	2	4	9	67	SS-6	-	-	-	-	-	-	-	-	-	14	A-3a (V)	
		16																		
		17	w																	
		18	2	5	7	18	78	SS-7	-	-	-	-	-	-	-	-	-	24	A-3a (V)	
		19																		
		20	2	4	8	18	100	SS-8	-	-	-	-	-	-	-	-	-	28	A-3a (V)	
		21																		
	22	2	2	4	9	100	SS-9	-	-	-	-	-	-	-	-	-	28	A-3a (V)		
	23																			
	24	2	3	5	12	100	SS-10	-	-	-	-	-	-	-	-	-	27	A-3a (V)		
	25																			
	26	2	3	5	12	100	SS-10	-	-	-	-	-	-	-	-	-	27	A-3a (V)		
	27																			
	28	9	10	13	34	100	SS-11	-	-	-	-	-	-	-	-	-	21	A-3a (V)		
	29																			

@17.5'; BECOMES WET

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 208+55, 70' RT.		START: 3/5/21		END: 3/5/21		PG 3 OF 3		B-169-5-20								
MATERIAL DESCRIPTION AND NOTES			ELEV. 598.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM STIFF TO HARD, GRAY, SILT, "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET (continued)			598.8	63																		
				64																		
				65	3																	
				66	6	18	100	SS-22	2.75	0	0	1	56	43	28	18	10	22	A-4b (8)			
				67																		
				68																		
				69																		
				70	4																	
				71	7	25	100	SS-23	4.25	-	-	-	-	-	-	-	-	22	A-4b (V)			
				72																		
				73																		
				74																		
				75	5																	
				76	11	36	100	SS-24	3.25	0	0	1	63	36	27	20	7	22	A-4b (8)			
				77																		
78																						
79																						
80	4																					
81	6	19	100	SS-25	3.25	-	-	-	-	-	-	-	-	24	A-4b (V)							
82																						
83																						
84	5																					
85	5	16	100	SS-26	3.00	0	0	1	53	46	28	20	8	26	A-4b (8)							

575.9 EOB

NOTES: GROUNDWATER ENCOUNTERED AT 17.5' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 180 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 55X</u>	STATION / OFFSET: <u>210+46, 170' LT.</u>	EXPLORATION ID <u>B-169-6-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>670.2 (MSL)</u> EOB: <u>25.5 ft.</u>	PAGE 1 OF 1
START: <u>6/1/21</u> END: <u>6/1/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>81.9</u>	LAT / LONG: <u>41.499871, -81.671684</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI			WC
7.0" ASPHALT (DRILLERS DESCRIPTION)	670.2																	
MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT , TRACE CLAY, CONTAINS TRACE BRICK, SLAG, AND GLASS FRAGMENTS, DAMP (FILL)	669.6	1																
		2																
	3	9	7	5	16	100	SS-1	-	-	-	-	-	-	-	-	13	A-2-4 (V)	
LOOSE TO MEDIUM DENSE, BROWN, FINE SAND , TRACE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, DAMP TO MOIST	665.7	4																
		5	5															
		6	4	3	10	100	SS-2	-	-	-	-	-	-	-	-	6	A-3 (V)	
		7																
		8	3	4	11	100	SS-3	-	-	-	-	-	-	-	-	7	A-3 (V)	
		9																
		10	4	3	8	100	SS-4	-	0	2	91	6	1	NP	NP	NP	8	A-3 (0)
		11																
		12	3	3	10	100	SS-5	-	-	-	-	-	-	-	-	-	12	A-3 (V)
		13																
MEDIUM DENSE TO DENSE, GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE TO LITTLE GRAVEL, TRACE CLAY, MOIST TO DAMP	655.7	14	3	4														
		15	2	3	11	100	SS-6	-	-	-	-	-	-	-	-	22	A-3a (V)	
		16																
		17																
		18	4	7	22	100	SS-7	-	-	-	-	-	-	-	-	12	A-3a (V)	
		19																
		20	3	4	16	100	SS-8	-	11	9	65	12	3	NP	NP	NP	10	A-3a (0)
		21																
		22																
		23	6	6	20	100	SS-9	-	-	-	-	-	-	-	-	4	A-3a (V)	
		24	5	10	33	100	SS-10	-	-	-	-	-	-	-	-	5	A-3a (V)	
		25		10	14													
	644.7	EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 61+30, 46' RT.		START: 6/2/21		END: 6/3/21		PG 4 OF 5		B-169-7-20										
MATERIAL DESCRIPTION AND NOTES			ELEV. 575.6	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED				
										GR	CS	FS	SI	CL	LL	PL	PI							
STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)			575.6	95	5																			
				96	7 11	25	100	SS-30	4.50	0	0	0	60	40	30	19	11	22	A-6a (8)					
				97																				
				98																				
				99																				
				100	5																			
				101	6 10	22	100	SS-31	4.25	-	-	-	-	-	-	-	-	-	20	A-6a (V)				
				102																				
				103																				
				104																				
VERY SOFT TO MEDIUM STIFF, GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST			556.5	105	5																			
				106	6 9	20	100	SS-32	1.50	0	0	1	50	49	33	19	14	25	A-6a (10)					
				107																				
				108																				
				109																				
				110	6																			
				111	6 8	19	100	SS-33	1.50	-	-	-	-	-	-	-	-	-	22	A-6a (V)				
				112																				
				113																				
				114																				
			556.5	115	0																			
				116	0 3	4	100	SS-34	0.20	-	-	-	-	-	-	-	-	31	A-7-6 (V)					
				117																				
				118																				
				119																				
				120	0																			
				121	1 2	4	100	SS-35	0.25	1	2	3	28	66	41	21	20	30	A-7-6 (12)					
				122																				
				123																				
				124																				
			556.5	125	0																			
				126	2	8	100	SS-36	0.50	-	-	-	-	-	-	-	-	31	A-7-6 (V)					

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 61+30, 46' RT. START: 6/2/21 END: 6/3/21 PG 5 OF 5 B-169-7-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 543.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
VERY SOFT TO MEDIUM STIFF, GRAY, CLAY , SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST (continued)																		
			127															
			128															
			129															
		130	1															
		131	2	11	100	SS-37	0.25	1	1	1	26	71	45	22	23	30	A-7-6 (14)	
		132	6															
		133																
		134	0															
	534.8	EOB	4	15	100	SS-38	0.50	-	-	-	-	-	-	-	-	30	A-7-6 (V)	
		135	7															

NOTES: GROUNDWATER ENCOUNTERED AT 25.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PUMPED 300 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 62+16, 19' LT.		START: 5/18/21		END: 5/19/21		PG 4 OF 5		B-169-8-20										
MATERIAL DESCRIPTION AND NOTES			ELEV. 574.5	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED				
										GR	CS	FS	SI	CL	LL	PL	PI							
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP TO MOIST (continued)			574.5	95	4																			
				96	6	24	100	SS-30	3.75	-	-	-	-	-	-	-	-	-	21	A-6a (V)				
				97																				
				98																				
				99																				
				100	6																			
				101	8	28	100	SS-31	4.00	-	-	-	-	-	-	-	-	-	-	19	A-6a (V)			
				102																				
				103																				
				104																				
SOFT TO MEDIUM STIFF, GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST TO WET			555.4	105	6																			
				106	7	22	100	SS-32	1.50	0	0	1	57	42	33	19	14	23	A-6a (10)					
				107																				
				108																				
				109																				
				110	5																			
				111	7	24	100	SS-33	2.00	-	-	-	-	-	-	-	-	-	25	A-6a (V)				
				112																				
				113																				
				114																				
			555.4	115	1																			
				116	2	7	100	SS-34	0.50	-	-	-	-	-	-	-	-	30	A-7-6 (V)					
				117																				
				118																				
				119																				
				120	0																			
				121	2	7	100	SS-35	0.50	2	2	3	26	67	46	21	25	45	A-7-6 (15)					
				122																				
				123																				
				124																				
			555.4	125	1																			
				126	3	10	100	SS-36	0.25	-	-	-	-	-	-	-	-	33	A-7-6 (V)					

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:10 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382 SFN: _____ PROJECT: CUY-90-16.28 (CCG3A) STATION / OFFSET: 62+16, 19' LT. START: 5/18/21 END: 5/19/21 PG 5 OF 5 B-169-8-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 542.4	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	HOLE SEALED
								GR	CS	FS	SI	CL	LL	PL	PI			
SOFT TO MEDIUM STIFF, GRAY, CLAY , SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST TO WET (continued)																		
			127															
			128															
			129															
		130	0															
		131	2 5	10	100	SS-37	0.25	0	1	2	26	71	44	22	22	30	A-7-6 (14)	
		132																
		133																
		134	0															
	533.7	EOB	3 7	15	100	SS-38	0.25	-	-	-	-	-	-	-	-	30	A-7-6 (V)	
		135																

NOTES: GROUNDWATER ENCOUNTERED AT 25.0' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 300 GAL. BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PROJECT: <u>CUY-CCG3</u>	DRILLING FIRM / OPERATOR: <u>BARR / T.GILBERT</u>	DRILL RIG: <u>CME 55</u>	STATION / OFFSET: <u>63+39, 55' RT.</u>	EXPLORATION ID <u>B-170-0-14</u>
TYPE: <u>BRIDGE</u>	SAMPLING FIRM / LOGGER: <u>BARR / D.KLIMKOWICZ</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>CARNEGIE AVE</u>	PAGE 1 OF 4
PID: <u>82380</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>1/26/14</u>	ELEVATION: <u>666.9 (MSL)</u> EOB: <u>112.0 ft.</u>	
START: <u>2/25/15</u> END: <u>2/25/15</u>	SAMPLING METHOD: <u>SPT / ST</u>	ENERGY RATIO (%): <u>78.8</u>	LAT / LONG: <u>41.499394, -81.670458</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
6.0", ASPHALT	666.9																		
12.0", CONCRETE	666.4																		
LOOSE TO MEDIUM DENSE, LIGHT BROWN, COARSE AND FINE SAND , SOME SILT, TRACE GRAVEL, TRACE CLAY, DAMP TO MOIST (FILL)	665.4	1																	
		2																	
		3	6	7	18	100	SS-1	-	-	-	-	-	-	-	-	6	A-3a (V)		
		4																	
		5																	
		6	3	2	7	100	SS-2	-	6	8	61	21	4	NP	NP	NP	5	A-3a (0)	
		7																	
		8	2	2	7	100	SS-3	-	-	-	-	-	-	-	-	-	12	A-3a (V)	
		9																	
		10																	
@10.0'; SS-4 AND SS-5 CHANGE TO TRACE SILT		11	2	2	7	100	SS-4	-	0	5	83	8	4	NP	NP	NP	11	A-3a (0)	
		12																	
		13	3	3	9	100	SS-5	-	-	-	-	-	-	-	-	10	A-3a (V)		
	652.4	14																	
HARD, GRAYISH BROWN, SILT , SOME CLAY, TRACE SAND, TRACE GRAVEL, MOIST		15	2	4	13	100	SS-6	4.50	0	1	6	70	23	27	19	8	20	A-4b (8)	
	649.9	16																	
MEDIUM DENSE, GRAYISH BROWN, FINE SAND , TRACE COARSE SAND, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		17																	
		18	6	9	24	100	SS-7	-	-	-	-	-	-	-	-	7	A-3 (V)		
	647.4	19																	
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET		20	4	6	13	67	SS-8	-	-	-	-	-	-	-	-	19	A-4a (V)		
		21																	
		22																	
		23	8	15	41	100	SS-9	-	0	0	49	45	6	NP	NP	NP	20	A-4a (3)	
		24																	
		25																	
		26	13	18	49	100	SS-10	-	-	-	-	-	-	-	-	22	A-4a (V)		
		27																	
		28	7	13	37	100	SS-11	-	0	1	56	37	6	NP	NP	NP	20	A-4a (2)	
		29																	

PID: 82380		SFN: _____	PROJECT: CUY-CCG3	STATION / OFFSET: 63+39, 55' RT.	START: 2/25/15	END: 2/25/15	PG 2 OF 4	B-170-0-14											
MATERIAL DESCRIPTION AND NOTES	ELEV. 636.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, WET (continued)		31	7 9 13	29	100	SS-12	-	-	-	-	-	-	-	-	-	-	19	A-4a (V)	<>
	633.6	32																	<>
		33																	<>
MEDIUM DENSE, GRAYISH BROWN MOTTLED WITH DARK GRAY, SILT , LITTLE SAND, TRACE CLAY, TRACE GRAVEL, SLIGHTLY ORGANIC, WET		34																	<>
		35	4																<>
		36	6 10	21	100	SS-13	-	0	0	11	83	6	NP	NP	NP	25	A-4b (8)	<>	
		37																	<>
	628.6	38																	<>
MEDIUM DENSE, GRAY, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, CONTAINS 1.0" SILT SEAM, WET		39																	<>
		40	3																<>
		41	9 10	25	100	SS-14	-	-	-	-	-	-	-	-	-	22	A-3a (V)	<>	
		42																	<>
	623.6	43																	<>
SOFT TO VERY STIFF, GRAYISH BROWN, SILT , "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST TO WET		44																	<>
		45	6																<>
		46	7 16	30	100	SS-15	2.25	-	-	-	-	-	-	-	-	19	A-4b (V)	<>	
		47																	<>
		48																	<>
		49																	<>
		50	4																<>
		51	4 6	13	100	SS-16	0.30	0	1	6	57	36	28	18	10	23	A-4b (8)	<>	
		52																	<>
		53																	<>
		54																	<>
		55	3																<>
		56	4 5	12	450	SS-17	0.60	-	-	-	-	-	-	-	-	25	A-4b (V)	<>	
		57																	<>
	608.6	58																	<>
MEDIUM STIFF TO STIFF, GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST TO WET		59																	<>
		60																	<>
		61																	<>
@61.3'; UNIT WEIGHT: 133.1 PCF @ 22.2% MC					93	ST-18	1.30	0	0	1	62	37	29	18	11	22	A-6a (8)	<>	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 15:21 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES\GINT

PID: 82380 SFN: _____ PROJECT: CUY-CCG3 STATION / OFFSET: 63+39, 55' RT. START: 2/25/15 END: 2/25/15 PG 4 OF 4 B-170-0-14

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
MEDIUM STIFF TO STIFF, GRAYISH BROWN, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, CONTAINS 1.0" SILT SEAM, MOIST TO WET (continued)	572.6																	
		95	3															
		96	3 5	11	100	SS-25	1.40	-	-	-	-	-	-	-	25	A-6a (V)	<V>	
		97															<V>	
	568.6	98															<V>	
		99															<V>	
SOFT TO STIFF, GRAYISH BROWN, SILTY CLAY , TRACE SAND, TRACE GRAVEL, MOIST		100	4														<V>	
		101	5 6	14	100	SS-26	0.60	-	-	-	-	-	-	30	A-6b (V)	<V>		
		102															<V>	
		103															<V>	
		104															<V>	
		105	5														<V>	
		106	6 6	16	100	SS-27	0.40	-	-	-	-	-	-	28	A-6b (V)	<V>		
		107															<V>	
		108															<V>	
		109															<V>	
@110.1'; UNIT WEIGHT: 122.6 PCF @ 33.7% MC		110															<V>	
	554.9	111			94	ST-28	1.10	0	1	1	19	79	40	22	18	34	A-6b (11)	<V>
		112															<V>	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 22.8'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 - CCG3A - MOD#7\GINT FILES\CUY-90-16.28 (CCG3)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / ASHBAUGH</u>	DRILL RIG: <u>CME 55T</u>	STATION / OFFSET: <u>211+89, 108' LT.</u>	EXPLORATION ID <u>B-170-1-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / ASHBAUGH</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>12/5/19</u>	ELEVATION: <u>647.4 (MSL)</u> EOB: <u>31.5 ft.</u>	PAGE 1 OF 2
START: <u>6/24/21</u> END: <u>6/24/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>68.4</u>	LAT / LONG: <u>41.499998, -81.671193</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL	PI				
10.0" ASPHALT AND 7.0" BASE (DRILLERS DESCRIPTION)	647.4																		
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , SOME GRAVEL, LITTLE SILT, TRACE CLAY, DAMP	646.0	1																	
		2																	
		3	9	6	14	44	SS-1	-	-	-	-	-	-	-	8	A-3a (V)			
	642.9	4																	
MEDIUM DENSE, BROWN, SANDY SILT , TRACE CLAY, TRACE GRAVEL, MOIST		5	7	6	15	61	SS-2	-	1	1	48	44	6	NP	NP	NP	17	A-4a (3)	
	640.4	6																	
MEDIUM DENSE, BROWN, COARSE AND FINE SAND , TRACE GRAVEL, TRACE CLAY, MOIST		7																	
		8	6	7	18	67	SS-3	-	-	-	-	-	-	-	-	-	14	A-3a (V)	
	637.9	9																	
LOOSE TO MEDIUM DENSE, BROWNISH GRAY, FINE SAND , SOME SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, WET		10	4	4	9	78	SS-4	-	-	-	-	-	-	-	-	-	30	A-3 (V)	
		11																	
		12																	
		13	5	6	16	83	SS-5	-	-	-	-	-	-	-	-	-	27	A-3 (V)	
		14																	
		15	6	5	14	56	SS-6	-	-	-	-	-	-	-	-	-	26	A-3 (V)	
		16																	
		17																	
		18	5	7	18	67	SS-7	-	-	-	-	-	-	-	-	-	26	A-3 (V)	
		19																	
		20	7	6	15	78	SS-8	-	-	-	-	-	-	-	-	-	26	A-3 (V)	
		21																	
		22																	
		23	6	8	18	83	SS-9	-	-	-	-	-	-	-	-	-	30	A-3 (V)	
		24																	
		25	9	7	17	89	SS-10	-	-	-	-	-	-	-	-	-	32	A-3 (V)	
		26																	
		27																	
		28	10	10	25	78	SS-11	-	-	-	-	-	-	-	-	-	29	A-3 (V)	
		29																	

F.S.

W 639.7

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 211+89, 108' LT.	START: 6/24/21	END: 6/24/21	PG 2 OF 2	B-170-1-20											
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
	617.4							GR	CS	FS	SI	CL	LL	PL	PI			
FS	615.9	31	10 11 10	24	89	SS-12	-	-	-	-	-	-	-	-	31	A-3 (V)	< > < > < > < >	

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 7.7' DURING DRILLING. HOLE DID NOT CAVE.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 13:28 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CUY-90-16.28 (CCG3A - MOD#7)\GINT FILES\CUY-90-16.28 (CCG3A)

PROJECT: <u>CUY-90-16.28 (CCG3A)</u>	DRILLING FIRM / OPERATOR: <u>NEAS / J. HODGES</u>	DRILL RIG: <u>CME 75T</u>	STATION / OFFSET: <u>211+80, 26' RT.</u>	EXPLORATION ID <u>B-170-2-20</u>
TYPE: <u>RETAINING WALL</u>	SAMPLING FIRM / LOGGER: <u>NEAS / J. HODGES</u>	HAMMER: <u>CME AUTOMATIC</u>	ALIGNMENT: <u>IR-90 WB</u>	
PID: <u>82382</u> SFN: _____	DRILLING METHOD: <u>3.25" HSA</u>	CALIBRATION DATE: <u>5/1/19</u>	ELEVATION: <u>651.7 (MSL)</u> EOB: <u>30.5 ft.</u>	PAGE 1 OF 2
START: <u>5/21/21</u> END: <u>5/21/21</u>	SAMPLING METHOD: <u>SPT</u>	ENERGY RATIO (%): <u>89</u>	LAT / LONG: <u>41.499731, -81.670853</u>	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP (FILL)	651.7	1																
		2																
		3	12	33	100	SS-1	-	27	24	30	13	6	NP	NP	NP	7	A-1-b (0)	
MEDIUM DENSE TO DENSE, BROWN BECOMING BROWNISH GRAY, FINE SAND, LITTLE COARSE SAND, TRACE SILT, TRACE CLAY, TRACE GRAVEL, DAMP @7.5' TO 19.0'; BECOMES WET	647.2	4	12															
		5	5	21	100	SS-2	-	-	-	-	-	-	-	-	-	7	A-3 (V)	
		6	6	8														
		7																
		8	4	13	100	SS-3	-	0	19	73	6	2	NP	NP	NP	24	A-3 (0)	
		9	4	5														
		10	3	12	100	SS-4	-	-	-	-	-	-	-	-	-	23	A-3 (V)	
		11	4	4														
		12																
		13	3	16	100	SS-5	-	-	-	-	-	-	-	-	-	26	A-3 (V)	
		14	5	6														
		15	6	28	100	SS-6	-	-	-	-	-	-	-	-	-	22	A-3 (V)	
	16	8	11															
	17																	
	18	11	45	100	SS-7	-	-	-	-	-	-	-	-	-	20	A-3 (V)		
	19	13	17															
DENSE, GRAY, SILT, SOME SAND, TRACE CLAY, TRACE GRAVEL, WET	632.2	20	7	40	100	SS-8	-	0	0	22	69	9	NP	NP	NP	19	A-4b (8)	
MEDIUM DENSE TO DENSE, GRAY, FINE SAND, LITTLE SILT, TRACE COARSE SAND, TRACE CLAY, TRACE GRAVEL, WET TO MOIST	630.2	21	13	25	100	SS-9	-	-	-	-	-	-	-	-	28	A-3 (V)		
		22	4	6	11													
		23	6	11														
		24																
		25	9	24	100	SS-10	-	-	-	-	-	-	-	-	-	23	A-3 (V)	
		26	8	8														
		27																
		28	10	28	100	SS-11	-	-	-	-	-	-	-	-	-	20	A-3 (V)	
		29	9	10														
			10	33	100	SS-12	-	-	-	-	-	-	-	-	-	17	A-3 (V)	

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 211+80, 26' RT.	START: 5/21/21	END: 5/21/21	PG 2 OF 2	B-170-2-20											
MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
	621.7							GR	CS	FS	SI	CL	LL	PL	PI			
	621.2	EOB		12												<,v,<		

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NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE DID NOT CAVE.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD)#:

PROJECT: CUY-90-16.28 (CCG3A)	DRILLING FIRM / OPERATOR: NEAS / ASHBAUGH	DRILL RIG: CME 55T	STATION / OFFSET: 64+33, 77' LT.	EXPLORATION ID B-170-3-20
TYPE: BRIDGE	SAMPLING FIRM / LOGGER: NEAS / ASHBAUGH	HAMMER: CME AUTOMATIC	ALIGNMENT: CARNEGIE AVE	
PID: 82382 SFN: 1807898	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 12/5/19	ELEVATION: 656.9 (MSL) EOB: 126.5 ft.	PAGE 1 OF 5
START: 4/14/21 END: 4/14/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 68.4	LAT / LONG: 41.499796, -81.670194	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTH	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.	
								GR	CS	FS	SI	CL	LL	PL	PI				
5.0" TOPSOIL (DRILLERS DESCRIPTION) LOOSE TO MEDIUM DENSE, BROWN BECOMING GRAYISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST TO DAMP	656.9																		
	656.5	1																	
		2																	
		3	3	8	50	SS-1	-	-	-	-	-	-	-	-	11		A-3a (V)		
		4	4																
		5	4																
		6	5	17	78	SS-2	-	-	-	-	-	-	-	-	10		A-3a (V)		
		7	10																
		8	7																
		9	10	23	83	SS-3	-	-	-	-	-	-	-	-	5		A-3a (V)		
		10																	
@10.0' TO 24.0'; BECOMES WET		11	8																
		12	12	29	78	SS-4	-	-	-	-	-	-	-	-	17		A-3a (V)		
		13	13																
		14	5																
		15	10	25	83	SS-5	-	-	-	-	-	-	-	-	23		A-3a (V)		
		16	12																
@15.0' TO 24.0'; BECOMES DENSE		17	9																
		18	14	38	89	SS-6	-	-	-	-	-	-	-	-	20		A-3a (V)		
		19	19																
	W 639.8	20																	
		21	12																
		22	15	41	78	SS-7	-	-	-	-	-	-	-	-	22		A-3a (V)		
		23	21																
		24	10																
		25	14	39	72	SS-8	-	-	-	-	-	-	-	-	23		A-3a (V)		
		26	20																
		27	10	42	94	SS-9	-	-	-	-	-	-	-	-	23		A-3a (V)		
	632.4	28	22																
MEDIUM DENSE, GRAY, SILT , SOME SAND, TRACE CLAY, TRACE GRAVEL, WET		29	7																
		30	10	22	100	SS-10	-	0	0	24	70	6	NP	NP	NP	22		A-4b (8)	
		31	9																
	629.4	32																	
MEDIUM DENSE, BROWNISH GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET		33	7																
		34	10	25	83	SS-11	-	-	-	-	-	-	-	-	25		A-3a (V)		
		35	12																

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A) - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 64+33, 77' LT.		START: 4/14/21		END: 4/14/21		PG 2 OF 5		B-170-3-20								
MATERIAL DESCRIPTION AND NOTES			ELEV. 626.9	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.		
										GR	CS	FS	SI	CL	LL	PL	PI					
MEDIUM DENSE, BROWNISH GRAY, COARSE AND FINE SAND , TRACE TO LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET (continued)			626.9	31	7 12 13	29	94	SS-12	-	-	-	-	-	-	-	-	-	23	A-3a (V)			
				32																		
				33	7 11 13	27	89	SS-13	-	-	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
				34																		
				35	8 10 14	27	83	SS-14	-	-	-	-	-	-	-	-	-	-	-	-	22	A-3a (V)
				36																		
				37																		
MEDIUM DENSE, GRAY, SILT , SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET			616.9	38	7 7 12	22	83	SS-15	-	-	-	-	-	-	-	-	-	22	A-3a (V)			
				39																		
STIFF, GRAY, SILT , "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST			614.9	40	4 6 7	15	89	SS-16	-	0	0	30	50	20	NP	NP	NP	22	A-4b (7)			
				41																		
LOOSE, GRAY, COARSE AND FINE SAND , SOME SILT, TRACE TO LITTLE CLAY, TRACE GRAVEL, WET			611.9	42	4 5 5	11	89	SS-17	1.25	0	0	4	59	37	30	20	10	24	A-4b (8)			
				43																		
				44																		
STIFF TO VERY STIFF, GRAY, SILT , "AND" CLAY, TRACE SAND, TRACE GRAVEL, MOIST			603.6	45	3 4 3	8	100	SS-18	-	-	-	-	-	-	-	-	-	25	A-3a (V)			
				46																		
				47																		
				48																		
				49																		
VERY STIFF TO HARD, GRAY, SILT AND CLAY , TRACE SAND, TRACE GRAVEL, MOIST			598.6	50	2 3 4	8	100	SS-19	-	-	-	-	-	-	-	-	-	21	A-3a (V)			
				51																		
				52																		
				53																		
				54																		
				55	2 2 2	5	100	SS-20	2.00	0	0	2	62	36	30	20	10	22	A-4b (8)			
				56																		
				57																		
				58																		
				59																		
				60																		
				61	2 2 3	6	100	SS-21	2.50	-	-	-	-	-	-	-	-	-	-	28	A-6a (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 64+33, 77' LT.		START: 4/14/21		END: 4/14/21		PG 3 OF 5		B-170-3-20												
MATERIAL DESCRIPTION AND NOTES			ELEV. 594.8	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.						
										GR	CS	FS	SI	CL	LL	PL	PI									
VERY STIFF TO HARD, GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, MOIST (continued)			594.8	63																						
				64																						
				65	4																					
				66	5	15	100	SS-22	2.50	0	0	2	56	42	34	19	15	26	A-6a (10)							
				67																						
				68																						
				69																						
				70	5																					
				71	8	19	100	SS-23	3.50	-	-	-	-	-	-	-	-	20	A-6a (V)							
				72																						
				73																						
				74																						
				75	5																					
				76	10	23	100	SS-24	3.75	0	1	1	58	40	33	19	14	20	A-6a (10)							
				77																						
				78																						
79																										
80	7																									
81	10	24	100	SS-25	4.25	-	-	-	-	-	-	-	-	19	A-6a (V)											
82																										
83																										
84																										
85	7																									
86	7	16	100	SS-26	2.50	-	-	-	-	-	-	-	-	21	A-6a (V)											
87																										
88																										
89																										
90	5																									
91	6	14	100	SS-27	2.25	0	0	5	51	44	33	18	15	23	A-6a (10)											
92																										
93																										
94																										

563.6

PID: 82382		SFN: _____		PROJECT: CUY-90-16.28 (CCG3A)		STATION / OFFSET: 64+33, 77' LT.		START: 4/14/21		END: 4/14/21		PG 4 OF 5		B-170-3-20															
MATERIAL DESCRIPTION AND NOTES			ELEV. 562.7	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.									
										GR	CS	FS	SI	CL	LL	PL	PI												
SOFT TO STIFF, GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL, MOIST (continued)				95	5																								
				96	6	14	100	SS-28	0.75	-	-	-	-	-	-	-	-	-	-	30	A-7-6 (V)								
				97																									
				98																									
				99																									
				100	4																								
				101	5	14	100	SS-29	0.50	1	1	2	32	64	42	20	22	29	A-7-6 (13)										
				102																									
				103																									
				104																									
				105	6																								
				106	5	13	100	SS-30	0.75	-	-	-	-	-	-	-	-	-	-	-	28	A-7-6 (V)							
				107																									
				108																									
				109																									
				110	7																								
				111	8	18	100	SS-31	1.00	-	-	-	-	-	-	-	-	-	-	-	30	A-7-6 (V)							
				112																									
				113																									
				114																									
				115	6																								
				116	8	17	100	SS-32	1.00	0	1	2	30	67	47	22	25	31	A-7-6 (15)										
				117																									
				118																									
	119																												
	120	7																											
	121	7	18	100	SS-33	1.00	-	-	-	-	-	-	-	-	-	-	-	30	A-7-6 (V)										
	122																												
	123																												
	124																												
	125	8																											
	126	9	19	100	SS-34	1.00	-	-	-	-	-	-	-	-	-	-	-	30	A-7-6 (V)										

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 1/3/24 14:11 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2022 ARCHIVE\CUY-90-16.28 (CCG3A - MOD#:

PID: 82382	SFN: _____	PROJECT: CUY-90-16.28 (CCG3A)	STATION / OFFSET: 64+33, 77' LT.	START: 4/14/21	END: 4/14/21	PG 5 OF 5	B-170-3-20												
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	PIEZ.
		530.5 530.4							GR	CS	FS	SI	CL	LL	PL	PI			

<p style="margin-top: 0;">530.4</p> <p style="margin-top: 0;">EOB</p>	8	
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NOTES: GROUNDWATER ENCOUNTERED AT 17.1' DURING DRILLING, 11.6' AFTER PIEZOMETER INSTALLATION. HOLE DID NOT CAVE. BORING OFFSET 16.0' EAST.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 80 GAL. BENTONITE GROUT; POURED 2 BAGS CEMENT; POURED 12 BAGS SAND

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 6/22/22 14:21 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\1ARCHIVE BY YEAR\2017 ARCHIVE\CUY-CCG3 82380\GINT FILES

PID: 82380		SFN: _____		PROJECT: CUY-CCG3		STATION / OFFSET: 214+20, 82' RT.		START: 1/13/15		END: 1/13/15		PG 2 OF 2		B-172-0-14									
MATERIAL DESCRIPTION AND NOTES			ELEV. 635.3	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL			
										GR	CS	FS	SI	CL	LL	PL	PI						
MEDIUM DENSE TO DENSE, GRAYISH BROWN, COARSE AND FINE SAND , LITTLE SILT, TRACE CLAY, TRACE GRAVEL, WET (<i>continued</i>) @30.0'; SS-12 CONTAINS FEW THIN SEAMS OF "SILTY AND CLAY"			627.0	31	5 8 13	27	100	SS-12	-	-	-	-	-	-	-	-	-	24	A-3a (V)				
				32																			
				33																			
				34																			
				35	7 14 24	49	100	SS-13	-	-	-	-	-	-	-	-	-	-	-		-	22	A-3a (V)
MEDIUM DENSE TO DENSE, GRAYISH BROWN, SANDY SILT , LITTLE CLAY, TRACE GRAVEL, WET @45.0'; UNIT WEIGHT: 125.1 PCF @ 26.9% MC			614.0	38																			
				39																			
				40	9 14 15	37	100	SS-14	-	-	-	-	-	-	-	-	-	-	-		23	A-4a (V)	
				41																			
				42																			
MEDIUM STIFF TO VERY STIFF, GRAYISH BROWN, SILT AND CLAY , LITTLE SAND, TRACE GRAVEL, MOIST TO WET @60.0'; SS-18 BECOMES GRAY			603.8	43																			
				44																			
				45																			
				46		100		ST-15	-	0	1	48	38	13	NP	NP	NP		27		A-4a (3)		
				47																			
			603.8	48																			
				49																			
				50	5 8 7	19	100	SS-16	-	-	-	-	-	-	-	-	-	-	-		27	A-4a (V)	
				51																			
				52																			
			603.8	53																			
				54																			
				55	4 5 8	17	100	SS-17	2.10	0	0	11	55	34	29	18	11		23		A-6a (8)		
				56																			
				57																			
			603.8	58																			
				59																			
				60	3 3 3	8	100	SS-18	0.60	-	-	-	-	-	-	-	-	-	27		A-6a (V)		
				61																			

EOB

NOTES: GROUNDWATER ENCOUNTERED AT 22.5' DURING DRILLING. CAVE DEPTH 18.0'.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; SHOVELED SOIL CUTTINGS

SUBGRADE ANALYSIS

OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - IR-90 EB (175+78 - 179+90, 183+10 - 186+05, 188+35 - 199+20)****NEAS, Inc.****Prepared By: Brendan P. Andrews
Date prepared: Friday, August 19, 2022****Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS: 17**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-075-0-14	IR-90 EB	176+44	48	RT	CME 45B	77	695.5	696.5	1.0 F
2	B-076-1-20	IR-90 EB	179+46	55	LT	CME 55T	68	695.1	697.0	1.9 F
3	B-076-0-14	IR-90 EB	179+55	49	LT	MOBILE B-58	90	699.6	697.0	2.6 C
4	B-076-2-20	IR-90 EB	183+89	25	LT	CME 55T	68	701.4	691.9	9.5 C
5	B-077-0-14	IR-90 EB	184+01	65	RT	CME 45B	77	703.5	691.8	11.7 C
6	B-081-0-14	IR-90 EB	189+07	22	RT	MOBILE B-58	90	686.8	680.3	6.5 C
7	B-083-0-14	IR-90 EB	192+13	13	RT	CME 55	79	675.4	669.4	6.0 C
8	B-084-0-14	IR-90 EB	196+29	133	RT	MOBILE B-58	90	661.5	654.1	7.4 C
9	B-085-0-14	IR-90 EB	199+20	6	LT	CME 48B	77	650.6	645.9	4.7 C
10	B-086-1-20	IR-90 EB	200+94	78	LT	CME 55T	68	670.4	644.5	25.9 C
11	B-087-3-20	IR-90 EB	202+41	58	RT	CME 55T	68	670.1	642.0	28.1 C
12	B-169-1-20	IR-90 EB	204+60	15	RT	CME 75T	89	645.2	639.7	5.6 C
13	B-169-3-20	IR-90 EB	205+22	18	LT	CME 75T	89	646.3	639.1	7.2 C
14	B-169-7-20	IR-90 EB	208+56	29	LT	CME 55T	82	669.8	637.2	32.6 C
15	B-169-8-20	IR-90 EB	209+65	41	LT	CME 75T	89	668.7	637.7	31.0 C
16	B-170-3-20	IR-90 EB	211+73	48	RT	CME 55T	68	656.9	638.8	18.1 C
17	B-172-0-14	IR-90 EB	214+20	82	RT	CME 45B	77	665.3	640.0	25.3 C

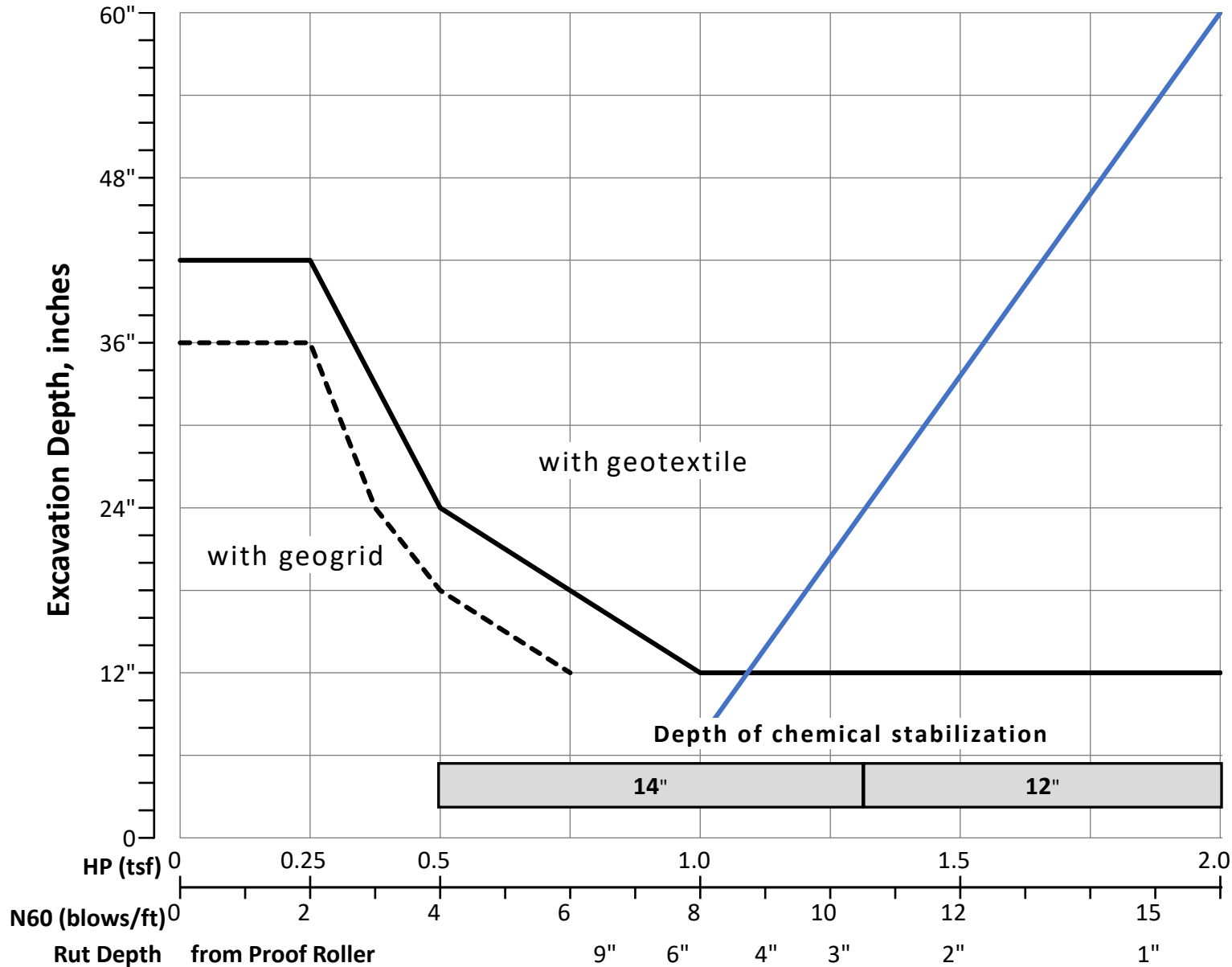


#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable
1	B 075-0 14	SS-1	1.0	1.5	2.0	2.5	50	30		NP	NP	NP	9	3	12	9	6	A-1-b	0						
		SS-3	3.0	4.5	4.0	5.5	57			NP	NP	NP	24	9	33	9	8	A-3a	0						
		SS-4	5.0	6.5	6.0	7.5	40									10	8	A-3a							
2	B 076-1 20	SS-1	2.5	4.0	4.4	5.9	24	24								9	8	A-3a	0						
		SS-2	5.0	6.5	6.9	8.4	24									11	8	A-3a							
3	B 076-0 14	SS-1	2.5	4.0	-0.1	1.4	20	11		NP	NP	NP	13	5	18	8	8	A-3a	0						
		SS-2	5.0	6.5	2.4	3.9	11			NP	NP	NP	22	10	32	18	8	A-3a	0						
		SS-3	7.5	9.0	4.9	6.4	14									12	8	A-3a	0						
4	B 076-2 20	SS-4	10.0	11.5	0.5	2.0	31	21								11	6	A-1-b	0						
		SS-5	12.5	14.0	3.0	4.5	26									15	6	A-1-b	0						
		SS-6	15.0	16.5	5.5	7.0	21			NP	NP	NP	15	5	20	12	6	A-1-b							
5	B 077-0 14	SS-2	2.5	4.0	-9.2	-7.7	39	30		NP	NP	NP	8	5	13	8	8	A-3a	0						
		SS-3	4.0	5.5	-7.7	-6.2	32									12	8	A-3a	0						
		SS-4	5.5	7.0	-6.2	-4.7	50			NP	NP	NP	14	7	21	10	8	A-3a	0						
		SS-5	7.0	8.5	-4.7	-3.2	37									8	8	A-3a	0						
6	B 081-0 14	SS-1	2.5	4.0	-4.0	-2.5	36	30		NP	NP	NP	13	6	19	9	8	A-3a	0						
		SS-2	5.0	6.5	-1.5	0.0	53									9	8	A-3a	0						
		SS-3	7.5	9.0	1.0	2.5	90									8	8	A-3a	0						
7	B 083-0 14	SS-3	5.0	6.5	-1.0	0.5	29	29								11	8	A-3a	0						
		SS-4	6.5	8.0	0.5	2.0	37			NP	NP	NP	23	8	31	15	8	A-3a	0						
8	B 084-0 14	SS-2	5.0	6.5	-2.4	-0.9	11	5								14	6	A-1-b	0						
		SS-3	7.5	9.0	0.1	1.6	5									10	6	A-1-b	0						
9	B 085-0 14	SS-3	4.0	5.5	-0.7	0.8	28	28								21	8	A-3a	0						
		SS-4	5.5	7.0	0.8	2.3	34			NP	NP	NP	12	2	14	23	8	A-3a	0						
		SS-5	7.0	8.5	2.3	3.8	49									18	8	A-3a	0						



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable
10	B 086-1 20	SS-10	25.0	26.5	-0.9	0.6	10	10							8	8	A-3a	0							
		SS-11	27.5	29.0	1.6	3.1	33								24	8	A-3a	0							
		SS-12	30.0	31.5	4.1	5.6	36								29	8	A-3a	0							
11	B 087-3 20	SS-13	27.5	29.0	-0.6	0.9	25	25							23	8	A-3a	0							
		SS-14	30.0	31.5	1.9	3.4	29								21	8	A-3a	0							
		SS-15	32.5	34.0	4.4	5.9	29								21	8	A-3a	0							
12	B 169-1 20	SS-2	5.0	6.5	-0.6	1.0	22	21							25	8	A-3a	0							
		SS-3	7.5	9.0	2.0	3.5	24			NP	NP	NP	20	5	25	20	8	A-3a	0						
		SS-4	10.0	11.5	4.5	6.0	21								25	8	A-3a	0							
13	B 169-3 20	SS-3	7.5	9.0	0.3	1.8	25	25							16	8	A-3a	0							
		SS-4	10.0	11.5	2.8	4.3	31								27	8	A-3a	0							
		SS-5	12.5	14.0	5.3	6.8	25								28	8	A-3a	0							
14	B 169-7 20	SS-12	30.0	31.5	-2.6	-1.1	15	14							31	8	A-3	0							
		SS-13	32.5	34.0	-0.1	1.4	14			NP	NP	NP	57	6	63	26	11	A-4b	6	A-4b	N ₆₀ & Mc	16"	12"		
		SS-14	35.0	36.5	2.4	3.9	20								28	8	A-3a	0							
		SS-15	37.5	39.0	4.9	6.4	16								25	8	A-3a	0							
15	B 169-8 20	SS-12	30.0	31.5	-1.0	0.5	3	3							22	10	A-4a	8				N ₆₀ & Mc		33"	
		SS-13	32.5	34.0	1.5	3.0	19								13	6	A-1-b	0							
		SS-14	35.0	36.5	4.0	5.5	21								15	6	A-1-b	0							
		SS-15	37.5	39.0	6.5	8.0	19								13	8	A-3a	0							
16	B 170-3 20	SS-7	17.5	19.0	-0.6	0.9	41	30							22	8	A-3a	0							
		SS-8	20.0	21.5	1.9	3.4	39								23	8	A-3a	0							
		SS-9	22.5	24.0	4.4	5.9	42								23	8	A-3a	0							
17	B 172-0 14	SS-10	25.0	26.5	-0.3	1.2	35	27		NP	NP	NP	18	3	21	24	8	A-3a	0						
		SS-11	27.5	29.0	2.2	3.7	39								21	8	A-3a	0							
		SS-12	30.0	31.5	4.7	6.2	27								24	8	A-3a	0							

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
		<input type="checkbox"/> HP
21.35		<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION

OFFICE OF GEOTECHNICAL ENGINEERING

**PLAN SUBGRADES
Geotechnical Bulletin GB1**

**CUY-90-16.28 (CCG3A)
82380**

CCG3A - IR-90 WB (177+40 - 181+65, 185+00 - 187+72, 194+50 - 201+14)

NEAS, Inc.

**Prepared By: Brendan P. Andrews
Date prepared: Friday, August 19, 2022**

**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241**

**513.337.9823 Ext. 701
brendan.andrews@neasinc.com**

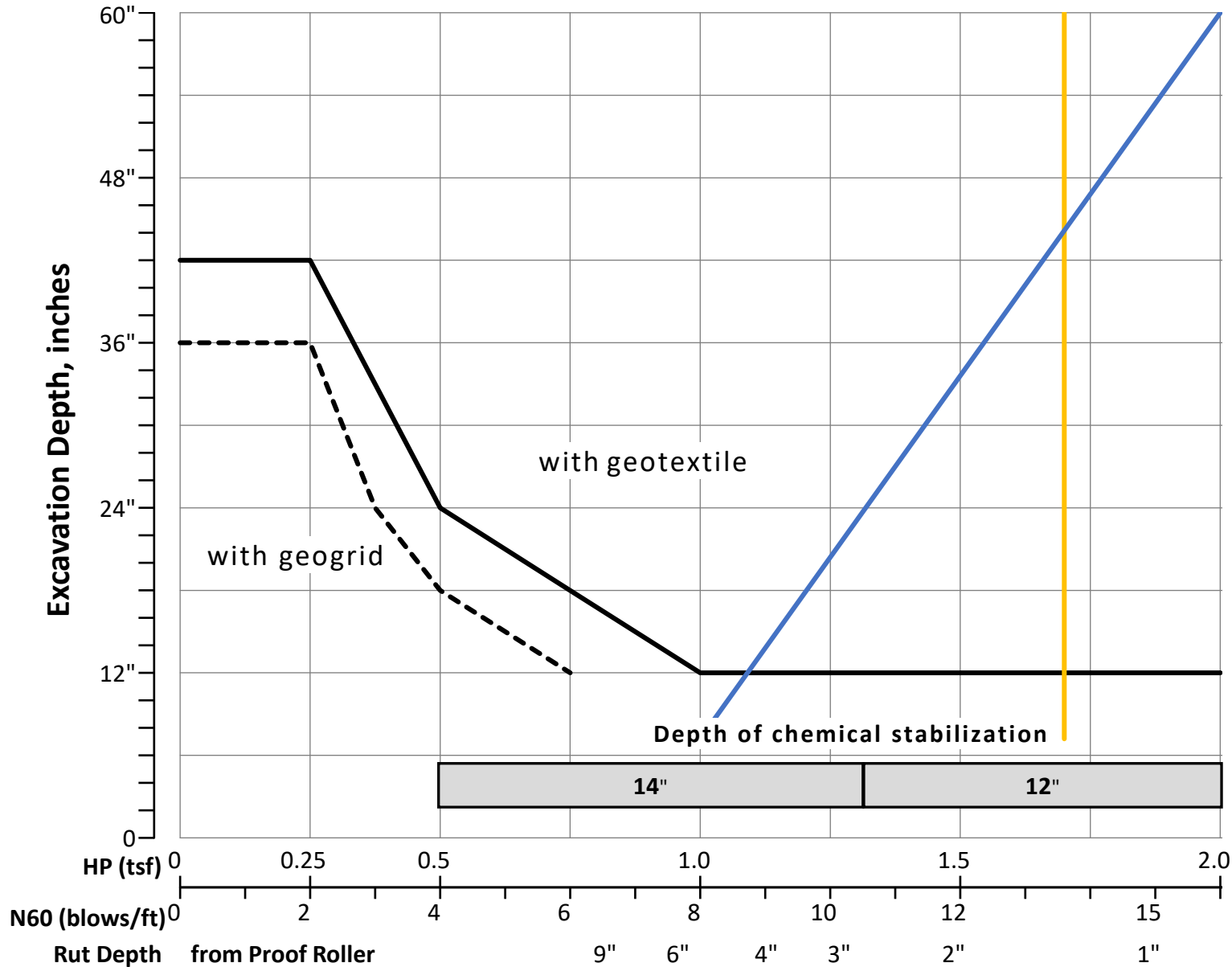
NO. OF BORINGS: 14

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-164-0-14	IR-90 WB	178+19	36	LT	MOBILE B-58	90	695.5	693.7	1.8 C
2	B-165-0-14	IR-90 WB	179+38	56	LT	CME 45B	77	692.6	692.5	0.1 C
3	B-142-4-20	IR-90 WB	186+59	26	LT	CME 55T	68	690.5	688.5	2.0 C
4	B-148-0-14	IR-90 WB	194+22	55	LT	MOBILE B-58	90	667.3	671.5	4.2 F
5	B-149-0-14	IR-90 WB	195+70	54	LT	MOBILE B-58	90	669.8	666.2	3.6 C
6	B-151-0-14	IR-90 WB	198+06	39	LT	MOBILE B-58	90	665.4	658.4	7.0 C
7	B-085-1-20	IR-90 WB	201+27	53	LT	CME 55T	68	672.4	647.0	25.4 C
8	B-085-2-20	IR-90 WB	201+34	17	LT	CME 55T	68	672.0	646.6	25.4 C
9	B-086-1-20	IR-90 WB	202+76	1	RT	CME 55T	68	670.4	642.3	28.1 C
10	B-087-2-20	IR-90 WB	204+41	41	RT	CME 55T	68	644.2	638.7	5.5 C
11	B-169-2-20	IR-90 WB	206+66	42	LT	CME 55T	68	640.8	637.7	3.1 C
12	B-004-D-06	IR-90 WB	209+93	82	LT	DLZ	60	648.0	639.3	8.7 C
13	B-170-1-20	IR-90 WB	211+89	108	LT	CME 55T	68	647.4	640.3	7.1 C
14	B-005-D-06	IR-90 WB	213+80	125	LT	DLZ	60	649.0	641.3	7.8 C



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable
1	B 164-0 14	SS-1	2.5	4.0	0.7	2.2	20	15		NP	NP	NP	14	7	21	8	8	A-3a	0						
		SS-2	5.0	6.5	3.2	4.7	15										10	8	A-3a	0					
		SS-3	7.5	9.0	5.7	7.2	20										11	8	A-3a						
2	B 165-0 14	SS-1	2.5	4.0	2.4	3.9	26	22								4	6	A-1-b	0						
		SS-2	5.0	6.5	4.9	6.4	22			NP	NP	NP	4	1	5	4	6	A-1-b	0						
		SS-3	7.5	9.0	7.4	8.9	27									4	6	A-1-b							
3	B 142-4 20	SS-1	2.5	4.0	0.5	2.0	24	21		NP	NP	NP	19	5	24	7	6	A-1-b	0						
		SS-2	5.0	6.5	3.0	4.5	35			NP	NP	NP	17	6	23	12	8	A-3a	0						
		SS-3	7.5	9.0	5.5	7.0	21			NP	NP	NP	16	7	23	11	8	A-3a							
4	B 148-0 14	SS-1	1.0	2.5	5.2	6.7	8	8								7	8	A-3a							
		SS-2	2.5	4.0	6.7	8.2	9			24	14	10	29	23	52	18	10	A-4a							
		SS-3	5.0	6.5	9.2	10.7	12								14	10	A-4a								
		SS-4	7.5	9.0	11.7	13.2	11								12	8	A-3a								
5	B 149-0 14	SS-2	2.5	4.0	-1.1	0.4	3	3		NP	NP	NP	21	8	29	16	8	A-3a	0						
		SS-3	5.0	6.5	1.4	2.9	6								9	8	A-3a	0							
		SS-4	7.5	9.0	3.9	5.4	11								18	8	A-3a	0							
6	B 151-0 14	SS-4	7.5	9.0	0.5	2.0	9	9		NP	NP	NP	10	4	14	11	8	A-3a	0						
		SS-5	10.0	11.5	3.0	4.5	9								8	8	A-3a	0							
		SS-6	12.5	14.0	5.5	7.0	9								9	8	A-3a								
7	B 085-1 20	SS-10	25.0	26.5	-0.4	1.1	27	26								11	6	A-1-b	0						
		SS-11	27.5	29.0	2.1	3.6	33								21	8	A-3a	0							
		SS-12	30.0	31.5	4.6	6.1	26								17	8	A-3a	0							
8	B 085-2 20	SS-10	25.0	26.5	-0.4	1.1	11	11		NP	NP	NP	18	10	28	13	8	A-3a	0						
		SS-11	27.5	29.0	2.1	3.6	16								18	6	A-1-b	0							
		SS-12	30.0	31.5	4.6	6.1	29			NP	NP	NP	7	1	8	13	6	A-1-b	0						
9	B 086-1 20	SS-11	27.5	29.0	-0.6	0.9	33	23								24	8	A-3a	0						
		SS-12	30.0	31.5	1.9	3.4	36								29	8	A-3a	0							
		SS-13	32.5	34.0	4.4	5.9	23								27	8	A-3a	0							

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

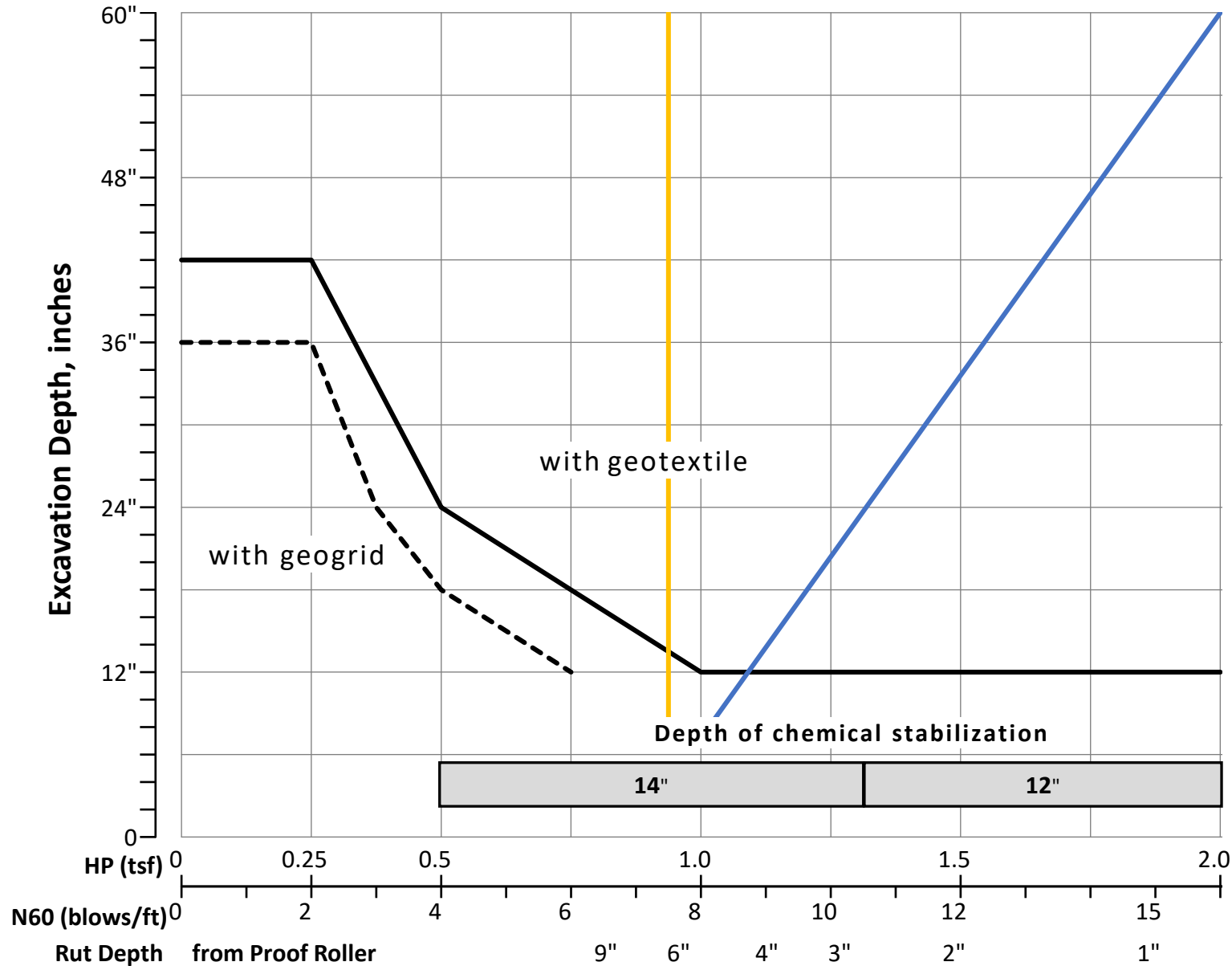
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13.64		<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - Ramp A1 (306+50 - 307+50, 310+00 - 311+30)****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **3**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-148-0-14	Ramp A1	306+08	44	RT	MOBILE B-58	92	667.0	671.8	4.8 F
2	B-149-0-14	Ramp A1	307+58	34	RT	MOBILE B-58	92	669.8	668.0	1.8 C
3	B-151-0-14	Ramp A1	309+88	53	RT	MOBILE B-58	92	665.4	667.5	2.1 F

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
7.50	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - Ramp A2 (409+00 - 410+00)****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Tuesday, August 9, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **3**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-068-0-14	Ramp A2	403+25	2	RT	Mobile B-58	90	696.5	697.3	0.8 F
2	B-132-0-14	Ramp A2	406+54	4	RT	CME 45B	77	698.5	697.2	1.3 C
3	B-134-0-14	Ramp A2	408+56	22	RT	CME 45B	77	697.9	698.1	0.2 F

PID: 82380

County-Route-Section: CUY-90-16.28 (CCG3A)

No. of Borings: 3

Geotechnical Consultant: NEAS, Inc.

Prepared By: Brendan P. Andrews

Date prepared: 8/9/2022

Chemical Stabilization Options		
320	Rubblize & Roll	Option
206	Cement Stabilization	No
	Lime Stabilization	Option
206	Depth	NA

Excavate and Replace Stabilization Options	
Global Geotextile Average(N60L):	0"
Average(HP):	0"
Global Geogrid Average(N60L):	0"
Average(HP):	0"

Design CBR	10
-----------------------	-----------

% Samples within 6 feet of subgrade			
$N_{60} \leq 5$	0%	$HP \leq 0.5$	0%
$N_{60} < 12$	0%	$0.5 < HP \leq 1$	0%
$12 \leq N_{60} < 15$	14%	$1 < HP \leq 2$	0%
$N_{60} \geq 20$	71%	$HP > 2$	14%
M+	14%		
Rock	0%		
Unsuitable	0%		

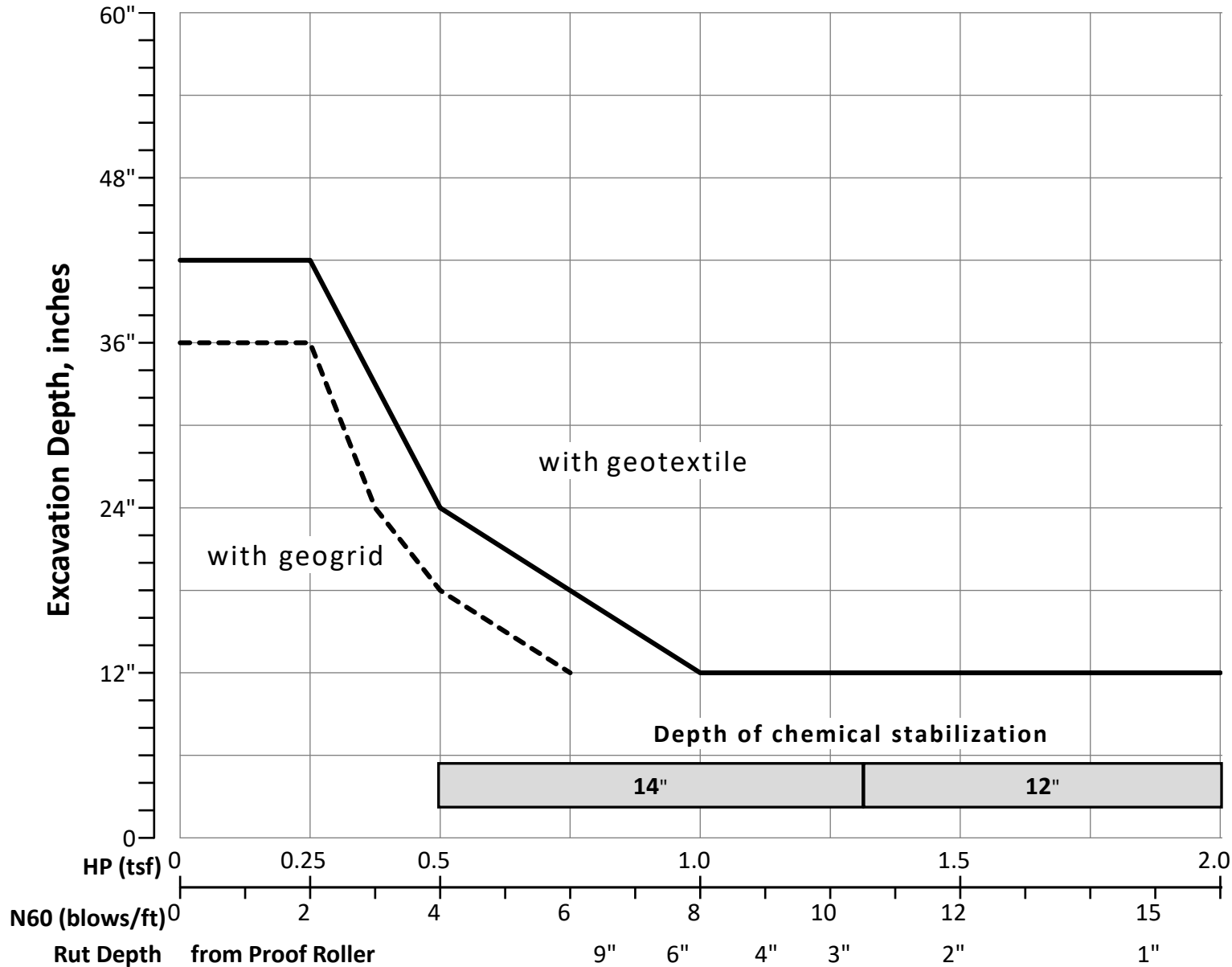
Excavate and Replace at Surface	
Average	0"
Maximum	0"
Minimum	0"

% Proposed Subgrade Surface	
Unstable & Unsuitable	33%
Unstable	33%
Unsuitable	0%

	N_{60}	N_{60L}	HP	LL	PL	PI	Silt	Clay	P 200	M_C	M_{OPT}	GI
Average	31	21	3.50				22	10	32	10	9	2
Maximum	52	30	3.50	0	0	0	26	13	39	17	14	10
Minimum	13	13	3.50	0	0	0	19	7	28	7	8	0

Classification Counts by Sample																			
ODOT Class	Rock	A-1-a	A-1-b	A-2-4	A-2-5	A-2-6	A-2-7	A-3	A-3a	A-4a	A-4b	A-5	A-6a	A-6b	A-7-5	A-7-6	A-8a	A-8b	Totals
Count	0	0	0	0	0	0	0	0	7	1	0	0	1	0	0	0	0	0	9
Percent	0%	0%	0%	0%	0%	0%	0%	0%	78%	11%	0%	0%	11%	0%	0%	0%	0%	0%	100%
% Rock Granular Cohesive	0%	89%										11%							100%
Surface Class Count	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	3
Surface Class Percent	0%	0%	0%	0%	0%	0%	0%	0%	67%	0%	0%	0%	33%	0%	0%	0%	0%	0%	100%

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

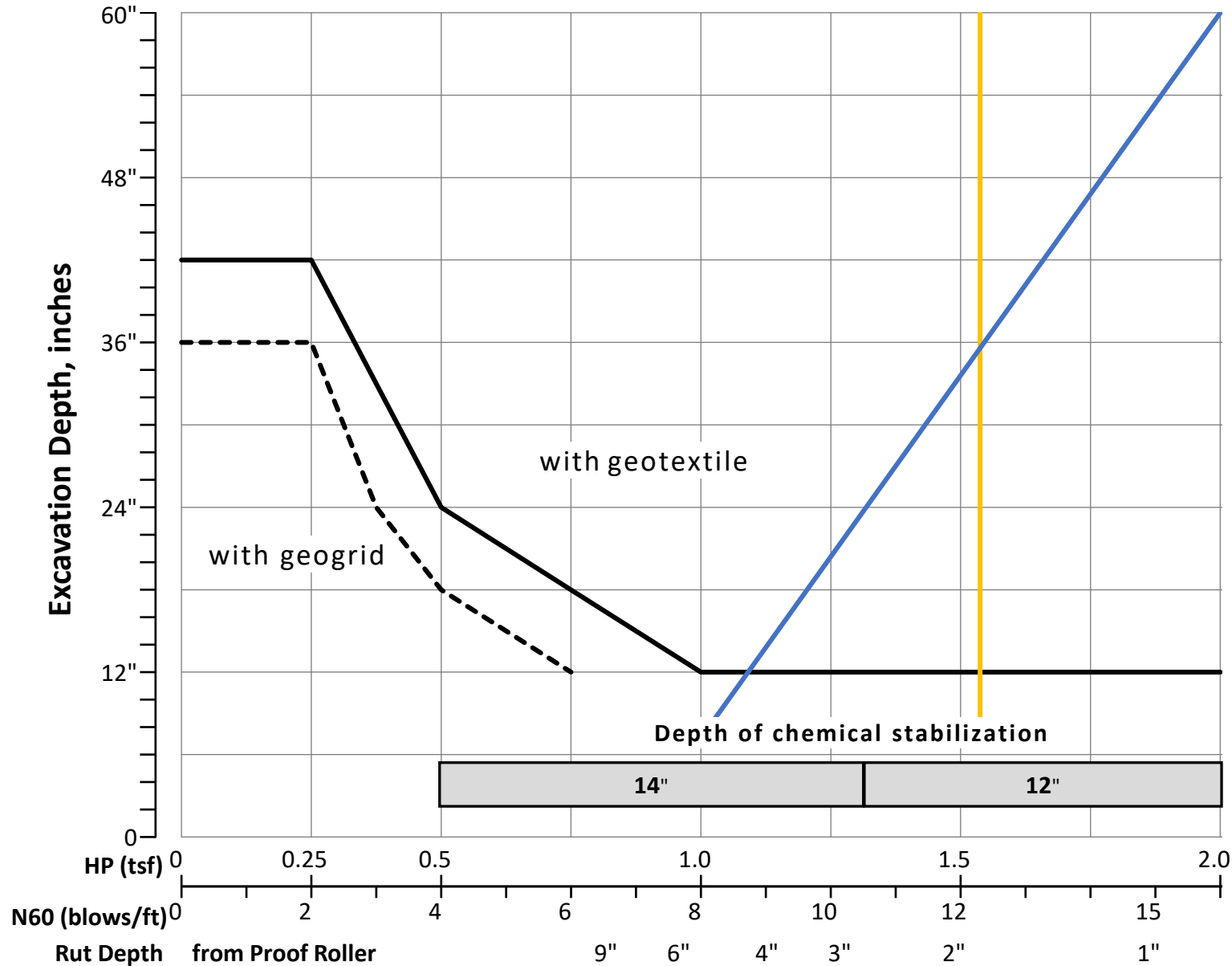
Calculated Average	New Values	Check to Override
3.50	0.50	<input type="checkbox"/> HP
21.33	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - Ramp A3****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **7**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-164-0-14	Ramp A3	578+19	7	RT	Mobile B-58	90	695.5	694.0	1.5 C
2	B-165-0-14	Ramp A3	579+39	9	LT	CME 45B	77	692.6	691.1	1.5 C
3	B-166-0-14	Ramp A3	581+00	22	LT	Mobile B-58	90	687.0	686.6	0.4 C
4	B-142-0-14	Ramp A3	582+24	37	RT	CME 55	79	677.5	681.9	4.4 F
5	B-142-2-14	Ramp A3	584+41	28	RT	CME 75T	89	680.4	671.5	8.9 C
6	B-142-3-20	Ramp A3	586+16	19	LT	CME 75T	89	674.5	663.7	10.8 C
7	B-080-0-20	Ramp A3	587+53	93	RT	Mobile B-58	90	669.4	662.0	7.4 C

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
12.33	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION

OFFICE OF GEOTECHNICAL ENGINEERING

**PLAN SUBGRADES
Geotechnical Bulletin GB1**

**CUY-90-16.28 (CCG3A)
82380**

CCG3A - Ramp B6 (1602+00 - 1602+50, 1606+50 - 1607+95)

NEAS, Inc.

Prepared By: Brendan P. Andrews
Date prepared: Friday, August 19, 2022

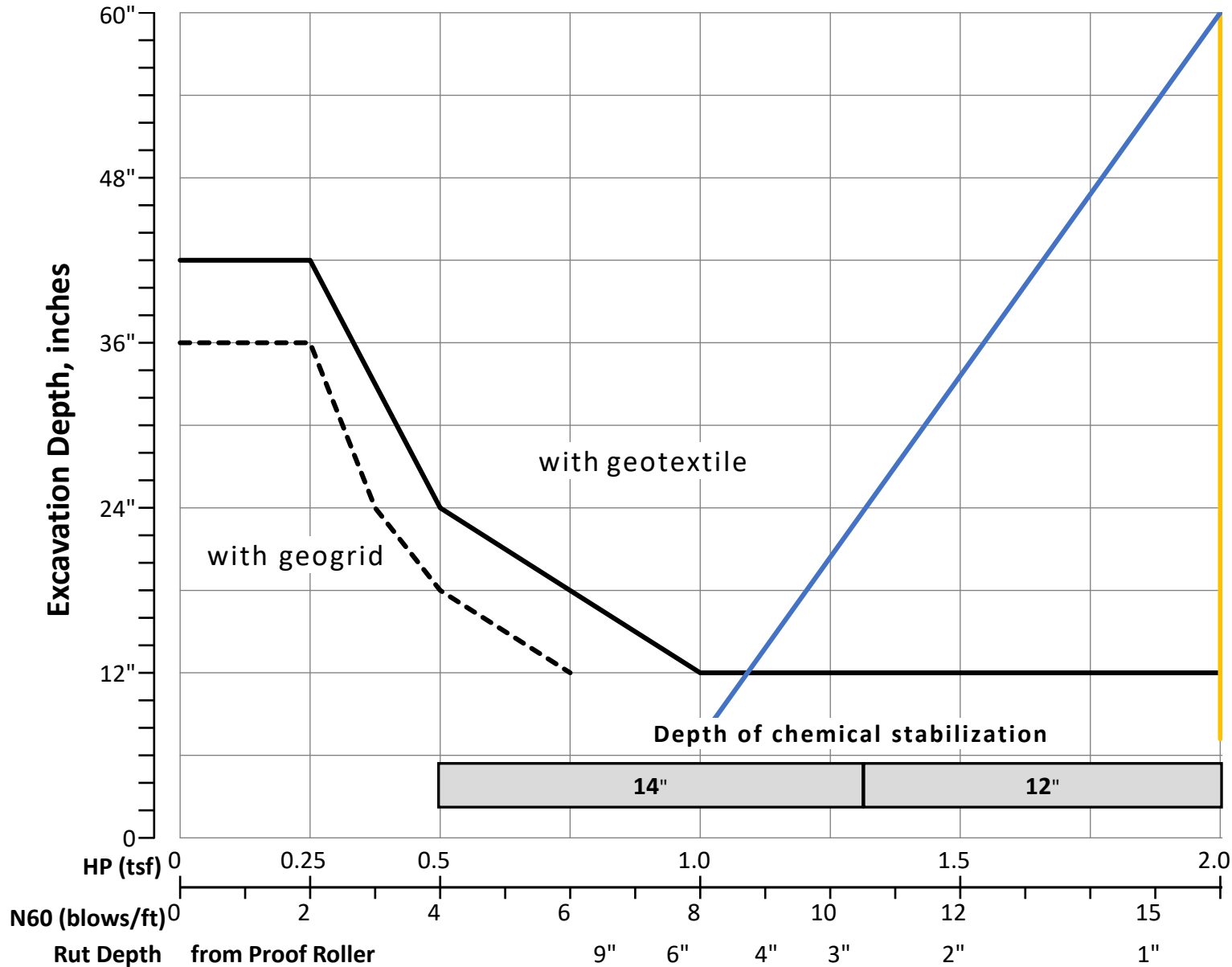
**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241**

**513.337.9823 Ext. 701
brendan.andrews@neasinc.com**

NO. OF BORINGS: **1**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-157-0-14	Ramp B6	1607+41	37	RT	CME 55X	81	694.5	693.9	0.6 C

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
16.00	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION

OFFICE OF GEOTECHNICAL ENGINEERING

**PLAN SUBGRADES
Geotechnical Bulletin GB1**

**CUY-90-16.28 (CCG3A)
82380**

CCG3A - Ramp IH5 (1075+99 - 1077+50, 1077+50 - 1078+25, 1078+25 - 1081+00)

NEAS, Inc.

Prepared By: Brendan P. Andrews
Date prepared: Friday, August 19, 2022

**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241**

**513.337.9823 Ext. 701
brendan.andrews@neasinc.com**

NO. OF BORINGS: **2**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-074-0-14	Ramp H5 Interim	1075+95	1	RT	CME 55	79	695.1	693.5	1.6 C
2	B-123-0-14	Ramp H5 Interim	1077+89	41	LT	CME 45B	77	693.6	689.6	4.0 C

PID: 82380

County-Route-Section: CUY-90-16.28 (CCG3A)

No. of Borings: 2

Geotechnical Consultant: NEAS, Inc.

Prepared By: Brendan P. Andrews

Date prepared: 8/19/2022

Chemical Stabilization Options		
320	Rubblize & Roll	Option
206	Cement Stabilization	Option
	Lime Stabilization	No
206	Depth	NA

Excavate and Replace Stabilization Options	
Global Geotextile Average(N60L): Average(HP):	#N/A
Global Geogrid Average(N60L): Average(HP):	#N/A

Design CBR	12
---------------	----

% Samples within 6 feet of subgrade			
N ₆₀ ≤ 5	0%	HP ≤ 0.5	0%
N ₆₀ < 12	0%	0.5 < HP ≤ 1	0%
12 ≤ N ₆₀ < 15	0%	1 < HP ≤ 2	0%
N ₆₀ ≥ 20	100%	HP > 2	0%
M+	0%		
Rock	0%		
Unsuitable	0%		

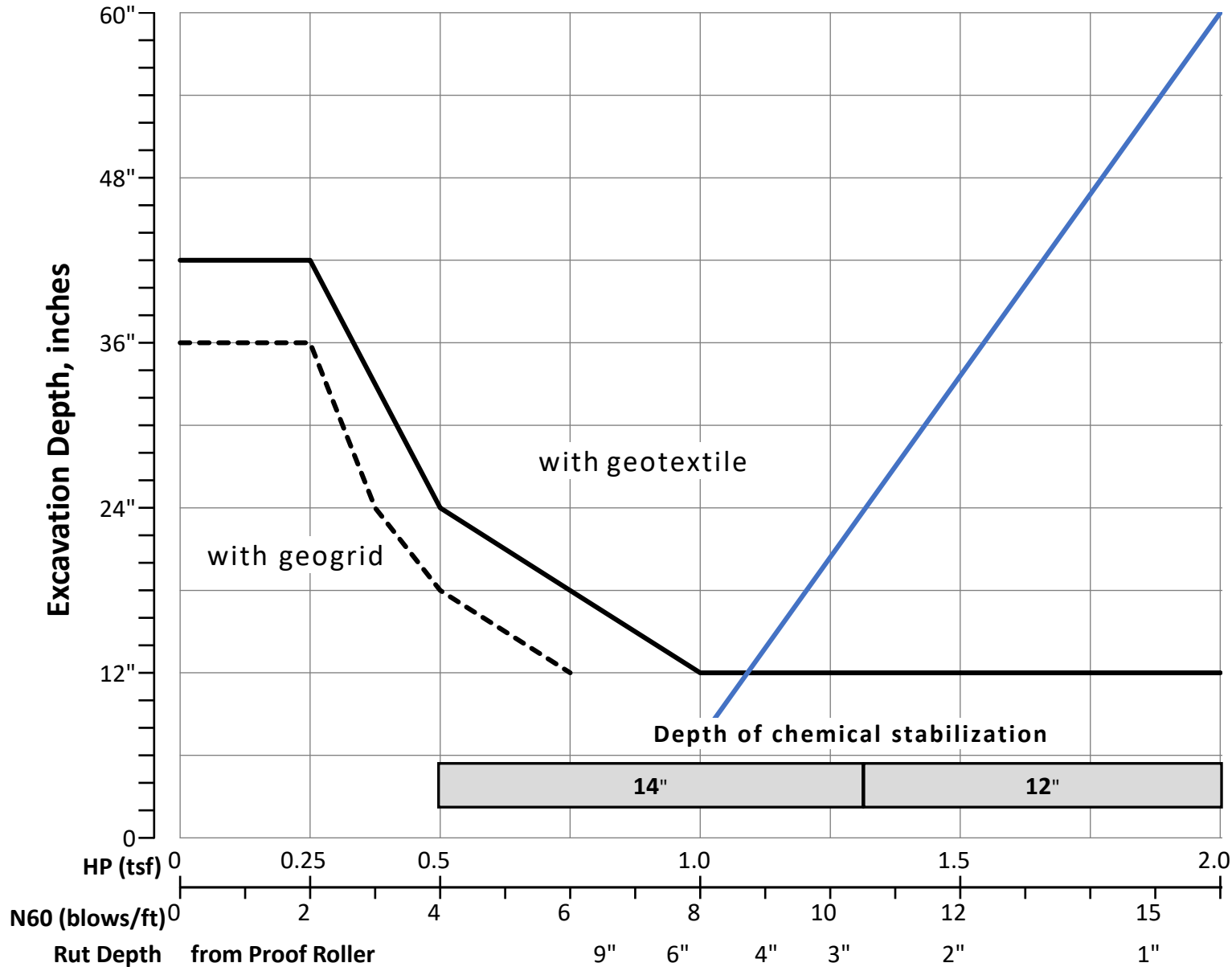
Excavate and Replace at Surface	
Average	0"
Maximum	0"
Minimum	0"

% Proposed Subgrade Surface	
Unstable & Unsuitable	0%
Unstable	0%
Unsuitable	0%

	N ₆₀	N _{60L}	HP	LL	PL	PI	Silt	Clay	P 200	M _C	M _{OPT}	GI
Average	45	30		32	18	14	22	15	37	9	9	1
Maximum	68	30	0.00	32	18	14	32	28	60	15	14	7
Minimum	29	29	0.00	32	18	14	13	8	21	8	8	0

Classification Counts by Sample																			
ODOT Class	Rock	A-1-a	A-1-b	A-2-4	A-2-5	A-2-6	A-2-7	A-3	A-3a	A-4a	A-4b	A-5	A-6a	A-6b	A-7-5	A-7-6	A-8a	A-8b	Totals
Count	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0	7
Percent	0%	0%	0%	0%	0%	0%	0%	0%	86%	0%	0%	0%	14%	0%	0%	0%	0%	0%	100%
% Rock Granular Cohesive	0%	86%										14%							100%
Surface Class Count	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	4
Surface Class Percent	0%	0%	0%	0%	0%	0%	0%	0%	75%	0%	0%	0%	25%	0%	0%	0%	0%	0%	100%

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
29.50	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

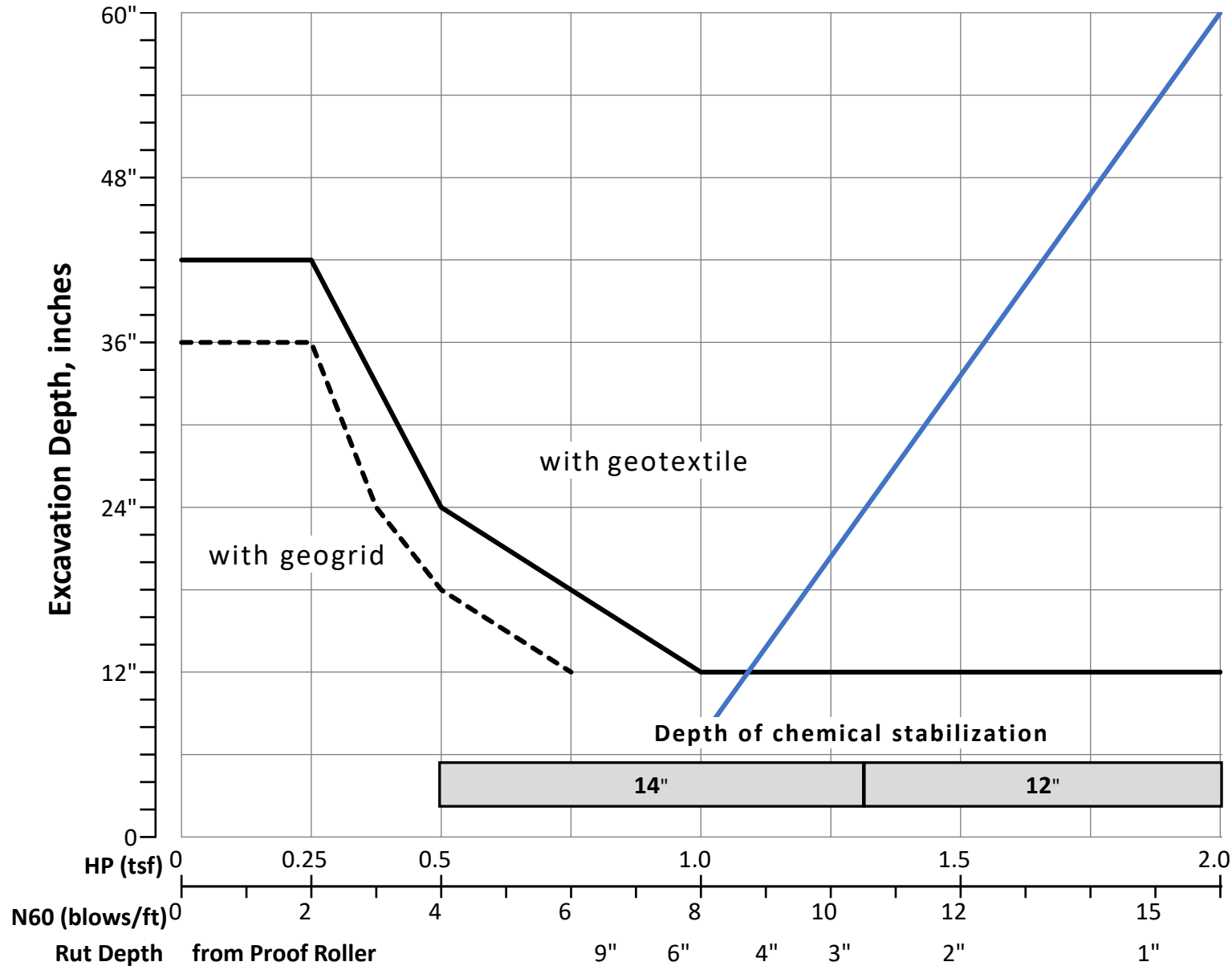
OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - Ramp H5 (990+00 - 996+18)****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **3**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-066-0-14	Ramp H5	973+32	29	LT	MOBILE B-58	90	696.4	694.9	1.5 C
2	B-122-0-14	Ramp H5	990+36	22	LT	CME 55X	81	676.0	673.1	2.9 C
3	B-083-0-14	Ramp H5	993+95	39	LT	CME 55	79	675.4	668.7	6.7 C



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable
1	B 066-0 14	SS-1	2.5	4.0	1.0	2.5	48			NP	NP	NP	21	9	30	10	8	A-3a	0						
		SS-2	5.0	6.5	3.5	5.0	47			NP	NP	NP	14	8	22	9	8	A-3a	0						
		SS-3	7.5	9.0	6.0	7.5	42									9	8	A-3a							
									30																
2	B 122-0 14	SS-1	2.5	4.0	-0.4	1.1	31			NP	NP	NP	20	8	28	10	8	A-3a	0						
		SS-2	5.0	6.5	2.1	3.6	16			NP	NP	NP	13	6	19	10	6	A-1-b	0						
		SS-3	7.5	9.0	4.6	6.1	7									19	10	A-4a	8						
									7																
3	B 083-0 14	SS-1	2.0	3.5	-4.7	-3.2	29						5	2	7	6	6	A-1-a	0						
		SS-2	3.5	5.0	-3.2	-1.7	38									10	8	A-3a	0						
		SS-3	5.0	6.5	-1.7	-0.2	29									11	8	A-3a	0						
		SS-4	6.5	8.0	-0.2	1.3	37						23	8	31	15	8	A-3a	0						
									30																

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

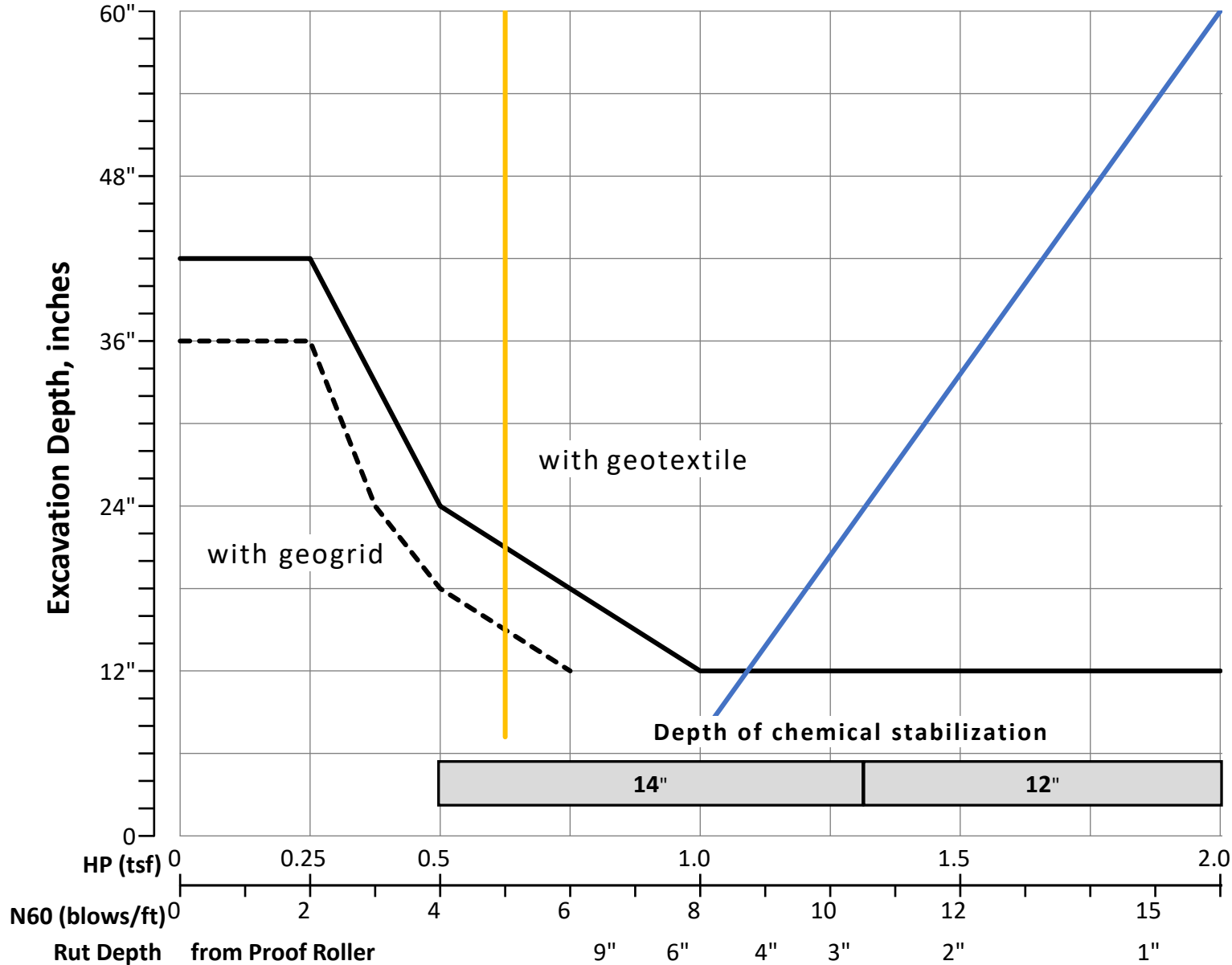
Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
22.33	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - Ramp H6 (1186+00 - 1186+50, 1186+50 - 1192+65)****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **2**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-113-0-14	Ramp H6	1187+81	28	RT	CME 45B	77	677.1	672.0	5.1 C
2	B-114-0-14	Ramp H6	1190+08	39	RT	CME 45B	77	674.5	671.0	3.5 C

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
5.00	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

OHIO DEPARTMENT OF TRANSPORTATION

OFFICE OF GEOTECHNICAL ENGINEERING

**PLAN SUBGRADES
Geotechnical Bulletin GB1**

**CUY-77/90-14.96/16.33
82380**

CUY-77/90-14.96/16.33 - CCG3 - Carnegie Ave.

NEAS, Inc.

Prepared By: Brendan P. Andrews
Date prepared: Tuesday, July 28, 2020

**Brendan P. Andrews
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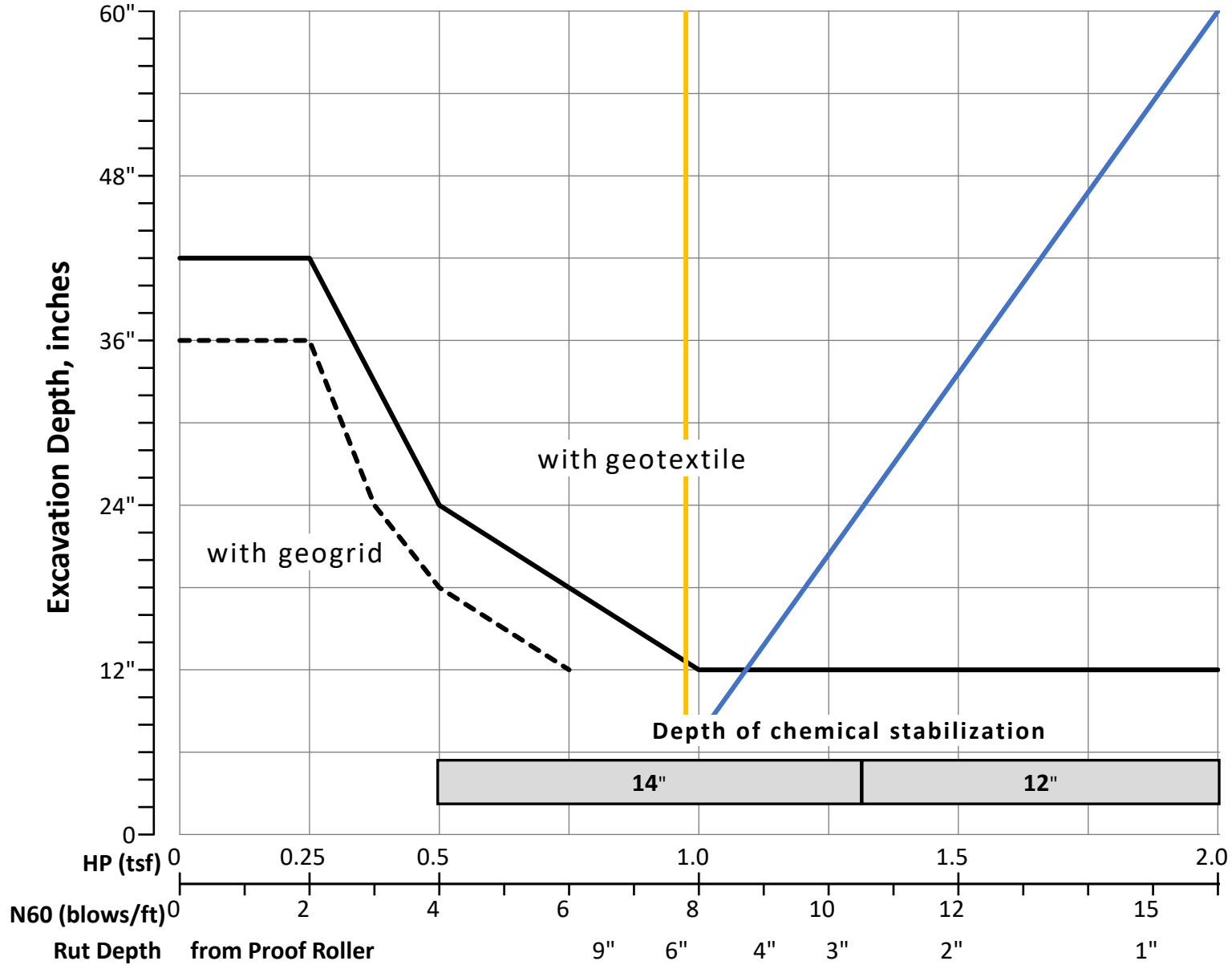
NO. OF BORINGS: **10**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-095-0-14	Carnegie Ave.	29+11	29	RT	CME 45B	77	671.4	669.9	1.5 C
2	B-096-0-14	Carnegie Ave.	31+14	0	RT	CME 55	79	672.3	670.8	1.5 C
3	B-097-0-14	Carnegie Ave.	36+06	32	RT	CME 55	79	672.0	671.9	0.1 C
4	B-098-0-14	Carnegie Ave.	39+50	12	LT	CME 55	79	680.8	680.1	0.7 C
5	B-099-0-14	Carnegie Ave.	43+78	6	RT	CME 55	79	670.4	668.9	1.5 C
6	B-100-0-14	Carnegie Ave.	47+11	41	RT	CME 55	79	670.8	670.6	0.2 C
7	B-101-0-14	EX E 21ST ST	8+71	4	LT	CME 55	79	671.2	671.3	0.1 F
8	B-108-0-14	Carnegie Ave.	53+98	6	LT	CME 55	79	671.6	669.8	1.8 C
9	B-169-0-14	Carnegie Ave.	56+24	53	RT	CME 45B	77	671.9	669.8	2.1 C
10	B-170-0-14	Carnegie Ave.	63+40	55	RT	CME 55	79	666.9	666.9	0.0



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)			
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable		
1	B 095-0 14	SS-1	2.0	3.5	0.5	2.0	9	3							5	6	A-1-b	0	924								
		SS-2	3.5	5.0	2.0	3.5	4								5	6	A-1-b	0									
		SS-3	5.0	6.5	3.5	5.0	3			NP	NP	NP	7	4	11	5	6	A-1-b		0							
		SS-4	6.5	8.0	5.0	6.5	3			NP	NP	NP	6	3	9	6	8	A-3		0							
2	B 096-0 14	SS-1	2.0	3.5	0.5	2.0	12	5							7	8	A-3a	0	182								
		SS-2	3.5	5.0	2.0	3.5	5			NP	NP	NP	8	6	14	6	8	A-3a		0							
		SS-3	5.0	6.5	3.5	5.0	12								6	8	A-3a	0									
		SS-4	6.5	8.0	5.0	6.5	7			NP	NP	NP	15	9	24	9	8	A-3a		0							
3	B 097-0 14	SS-1	2.0	3.5	1.9	3.4	13	7																			
		SS-2	3.5	5.0	3.4	4.9	8																				
		SS-3	5.0	6.5	4.9	6.4	7			NP	NP	NP	7	5	12	9	8	A-3a	0								
		SS-4	6.5	8.0	6.4	7.9	16								7	8	A-3a										
4	B 098-0 14	SS-1	2.0	3.5	1.3	2.8	8	8							7	8	A-3	0	100								
		SS-2	3.5	5.0	2.8	4.3	8			NP	NP	NP	5	4	9	7	6	A-1-b		0							
		SS-3	5.0	6.5	4.3	5.8	13								8	8	A-3	0									
		SS-4	6.5	8.0	5.8	7.3	12			NP	NP	NP	4	3	7	6	8	A-3									
5	B 099-0 14	SS-1	2.0	3.5	0.5	2.0	8	5																			
		SS-2	3.5	5.0	2.0	3.5	18			NP	NP	NP	10	6	16	8	8	A-3a	0	100							
		SS-3	5.0	6.5	3.5	5.0	12								7	8	A-3a	0									
		SS-4	6.5	8.0	5.0	6.5	5								7	8	A-3a	0									
6	B 100-0 14	SS-1	2.0	3.5	1.8	3.3	11	7							7	8	A-3a	0	240								
		SS-2	3.5	5.0	3.3	4.8	7			NP	NP	NP	6	4	10	7	6	A-1-b		0							
		SS-3	5.0	6.5	4.8	6.3	9			NP	NP	NP	15	8	23	7	8	A-3a		0							
7	B 101-0 14	SS-1	2.0	3.5	2.1	3.6	14	11																			
		SS-2	3.5	5.0	3.6	5.1	11			NP	NP	NP	7	5	12	6	8	A-3a	0	100							
		SS-3	5.0	6.5	5.1	6.6	11								9	8	A-3a	0									
8	B 108-0 14	SS-1	2.0	3.5	0.2	1.7	11	11																			
		SS-2	3.5	5.0	1.7	3.2	13			NP	NP	NP	8	7	15	7	8	A-3a	0	160							
		SS-3	5.0	6.5	3.2	4.7	14								5	8	A-3a	0									
		SS-4	6.5	8.0	4.7	6.2	11			NP	NP	NP	3	3	6	5	8	A-3	0								
9	B 169-0 14	SS-2	2.5	4.0	0.4	1.9	26	14							11	8	A-3a	0									
		SS-3	5.0	6.5	2.9	4.4	18								7	8	A-3	0									
		SS-4	7.5	9.0	5.4	6.9	14								5	8	A-3										

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	2.50	<input type="checkbox"/> HP
7.80	17.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

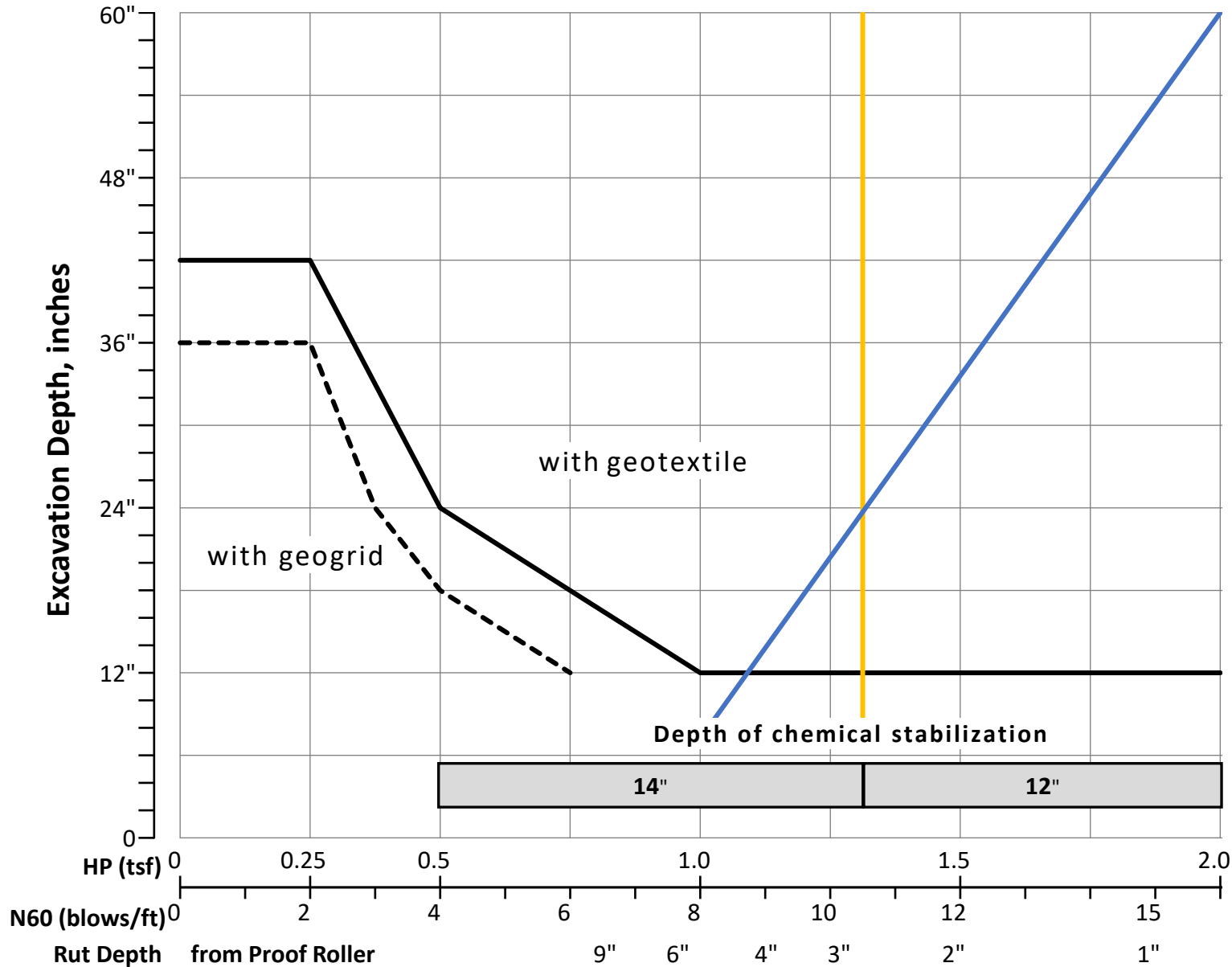
OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - E. 14th St NB (52+50 - 53+25, 54+75 - 59+21)****NEAS, Inc.****Prepared By: Brendan P. Andrews
Date prepared: Thursday, August 11, 2022****Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS: 6**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-102-0-14	E. 14TH NB	52+05	72	LT	MOBILE B-58	90	679.0	666.0	13.0 C
2	B-158-0-14	E. 14TH NB	52+81	55	LT	CME 55	79	678.6	665.7	12.9 C
3	B-078-0-14	E. 14TH NB	55+66	112	LT	CME 45B	77	670.9	662.5	8.4 C
4	B-078-1-20	E. 14TH NB	56+26	21	LT	CME 75T	89	667.0	662.8	4.3 C
5	B-080-0-14	E. 14TH NB	56+60	99	LT	MOBILE B-58	90	669.4	663.2	6.2 C
6	B-098-0-14	E. 14TH NB	61+00	37	RT	CME 55	79	670.8	669.3	1.5 C



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)		
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable	
1	B 102-0 14	SS-6	12.5	14.0	-0.5	1.0	6	6							10	8	A-3	0								
		SS-7	15.0	16.5	2.0	3.5	9			NP	NP	NP	4	1	5	5	8	A-3	0							
		SS-8	17.5	19.0	4.5	6.0	27									5	8	A-3a	0							
2	B 158-0 14	SS-7	12.5	14.0	-0.4	1.1	8	8		NP	NP	NP	42	14	56	17	11	A-4a	4			N ₆₀ & M _c		12"		
		SS-8	15.0	16.5	2.1	3.6	8									11	8	A-3a	0							
		SS-9	17.5	19.0	4.6	6.1	18									9	8	A-3a	0							
3	B 078-0 14	SS-4	7.5	9.0	-0.9	0.6	13	13							10	8	A-3a	0								
		SS-5	10.0	11.5	1.6	3.1	13			NP	NP	NP	15	7	22	12	8	A-3a	0							
		SS-6	12.5	14.0	4.1	5.6	13									8	8	A-3a	0							
4	B 078-1 20	SS-2	5.0	6.5	0.8	2.3	42	22							10	8	A-3a	0								
		SS-3	7.5	9.0	3.3	4.8	30								9	8	A-3a	0								
		SS-4	10.0	11.5	5.8	7.3	22			NP	NP	NP	20	11	31	11	8	A-3a								
5	B 080-0 14	SS-3	5.0	6.5	-1.2	0.3	9	6							8	8	A-3	0								
		SS-4	7.5	9.0	1.3	2.8	6								9	8	A-3a	0								
6	B 098-0 14	SS-1	2.0	3.5	0.5	2.0	8	8							7	8	A-3	0								
		SS-2	3.5	5.0	2.0	3.5	8			NP	NP	NP	5	4	9	7	6	A-1-b	0							
		SS-3	5.0	6.5	3.5	5.0	13									8	8	A-3	0							
		SS-4	6.5	8.0	5.0	6.5	12			NP	NP	NP	4	3	7	6	8	A-3	0							

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
10.50	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

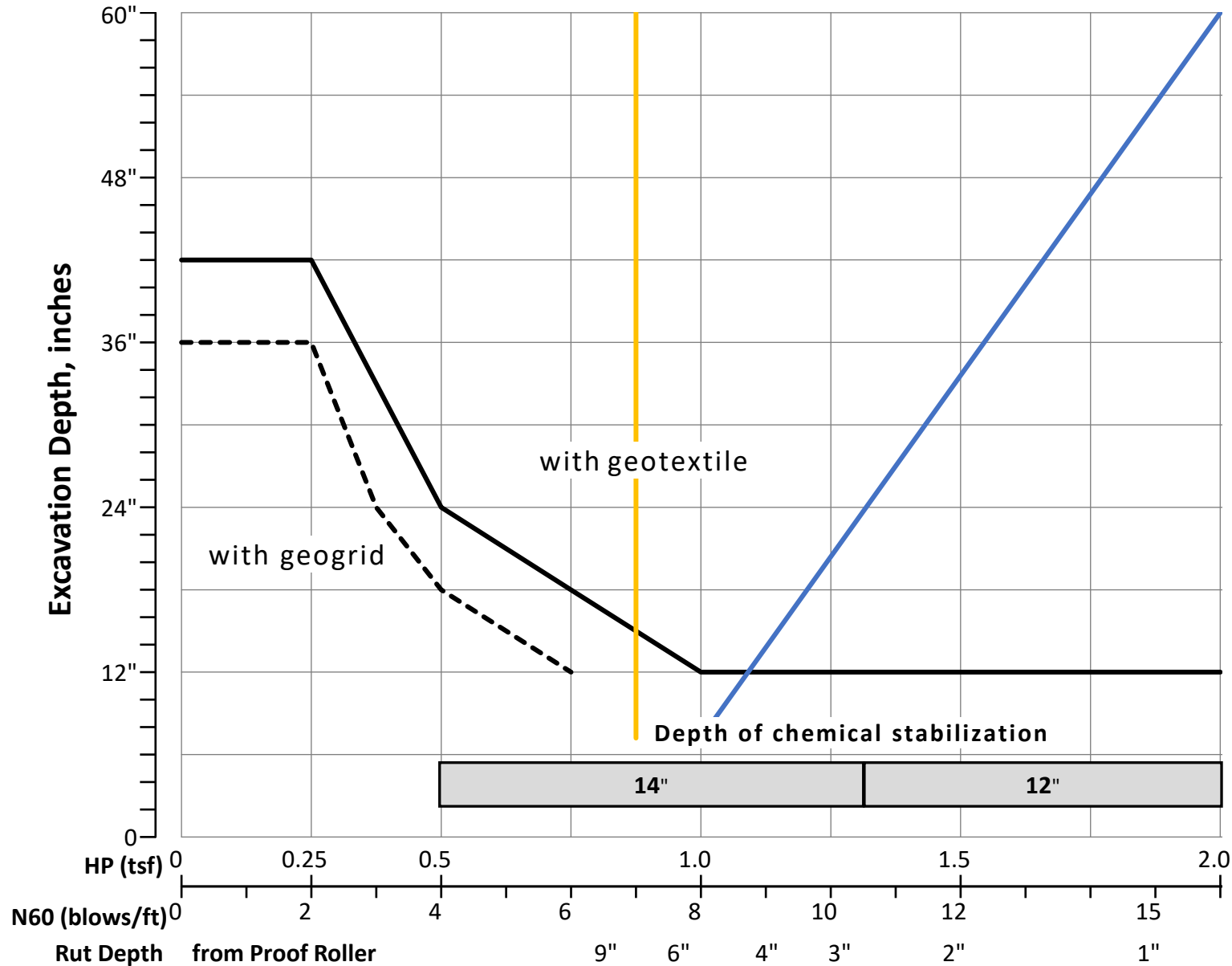
OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - E. 14th St SB (36+35 - 39+50)****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **2**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-080-0-14	E. 14TH SB	36+36	63	LT	MOBILE B-58	90	669.4	663.2	6.2 C
2	B-098-0-14	E. 14TH SB	40+84	46	RT	CME 55	79	670.8	669.3	1.5 C



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics					Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class		GI	Unsuitable	Unstable	Unsuitable		Unstable
1	B 080-0 14	SS-3	5.0	6.5	-1.2	0.3	9	6							8	8	A-3	0							
		SS-4	7.5	9.0	1.3	2.8	6								9	8	A-3a	0							
2	B 098-0 14	SS-1	2.0	3.5	0.5	2.0	8	8							7	8	A-3	0							
		SS-2	3.5	5.0	2.0	3.5	8			NP	NP	NP	5	4	9	7	6	A-1-b	0						
		SS-3	5.0	6.5	3.5	5.0	13								8	8	A-3	0							
		SS-4	6.5	8.0	5.0	6.5	12			NP	NP	NP	4	3	7	6	8	A-3	0						

GB1 Figure B – Subgrade Stabilization



OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
7.00	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

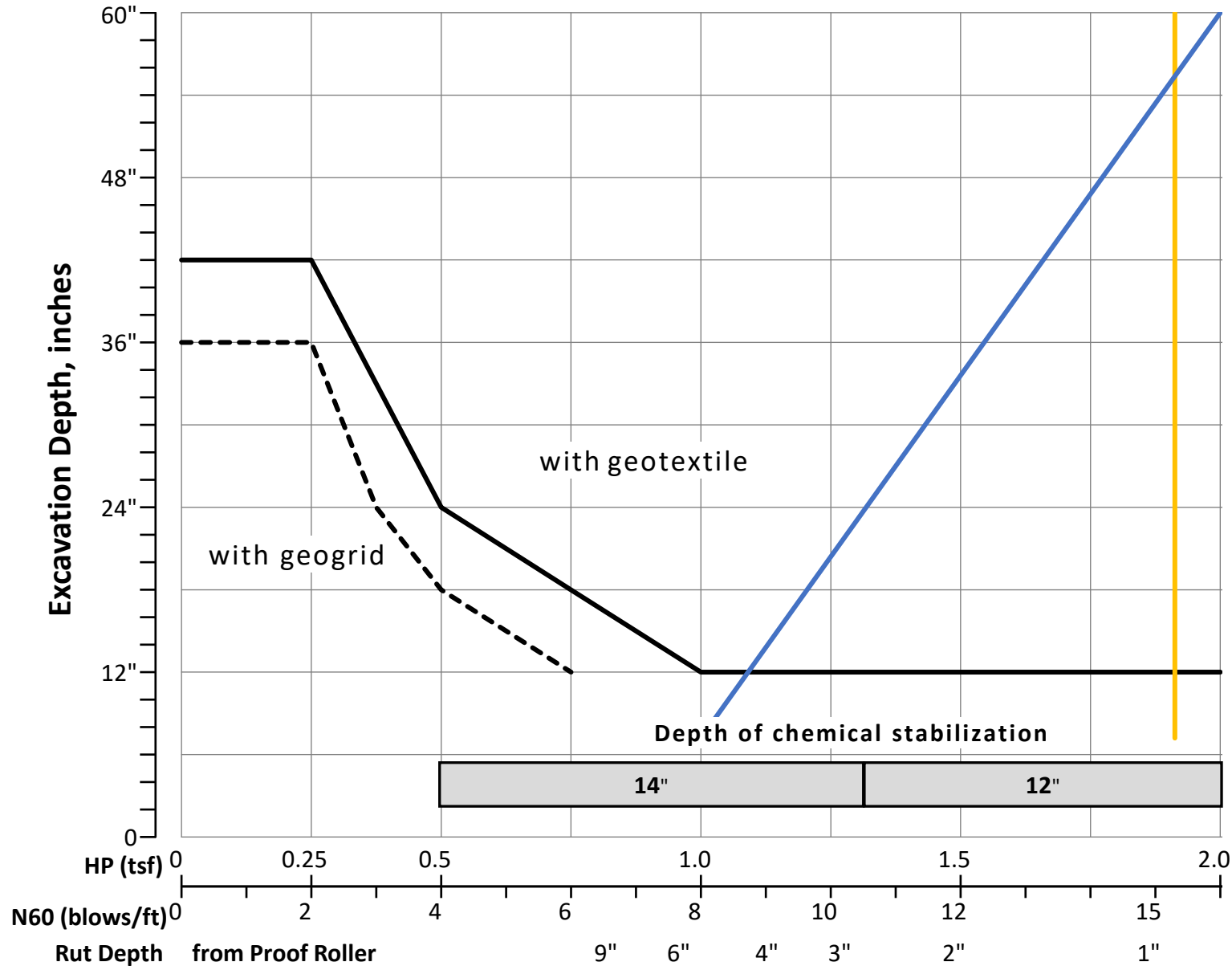
OHIO DEPARTMENT OF TRANSPORTATION**OFFICE OF GEOTECHNICAL ENGINEERING****PLAN SUBGRADES
Geotechnical Bulletin GB1****CUY-90-16.28 (CCG3A)
82380****CCG3A - East 18th Street****NEAS, Inc.****Prepared By:** Brendan P. Andrews
Date prepared: Friday, August 19, 2022**Brendan P. Andrews
2868 East Kemper Road
Cincinnati, OH 45241****513.337.9823 Ext. 701
brendan.andrews@neasinc.com****NO. OF BORINGS:** **3**

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-078-1-20	E. 18th St	20+03	33	LT	CME 75T	89	667.0	662.5	4.5 C
2	B-144-0-14	E. 18th St	20+82	53	RT	CME 45B	77	669.1	663.5	5.6 C
3	B-098-0-14	E. 18th St	24+23	184	LT	CME 55	79	670.8	667.5	3.3 C



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics						Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class	GI		Unsuitable	Unstable	Unsuitable	Unstable	
1	B 078-1 20	SS-2	5.0	6.5	0.5	2.0	42	30								11	8	A-3a	0						
		SS-3	7.5	9.0	3.0	4.5	42									10	8	A-3a	0						
2	B 144-0 14	SS-3	5.0	6.0	-0.6	0.4	50	8							7	8	A-3a	0							
		SS-4	7.5	9.0	1.9	3.4	8									9	8	A-3a	0						
3	B 098-0 14	SS-2	3.5	5.0	0.2	1.7	8	8		NP	NP	NP	5	4	9	7	6	A-1-b	0						
		SS-3	5.0	6.5	1.7	3.2	13									8	8	A-3	0						
		SS-4	6.5	8.0	3.2	4.7	12									6	8	A-3	0						

GB1 Figure B – Subgrade Stabilization



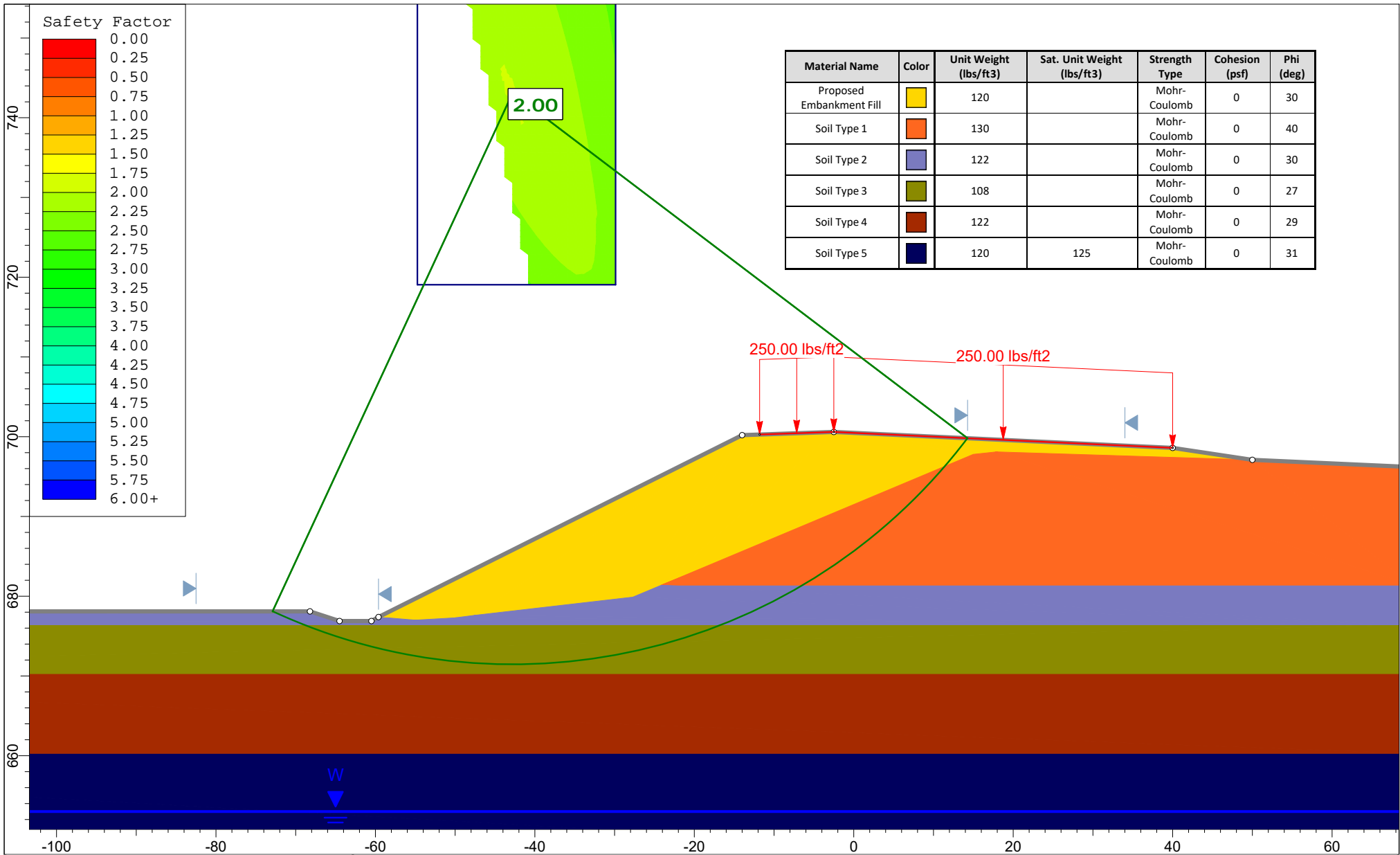
OVERRIDE TABLE

Calculated Average	New Values	Check to Override
	0.50	<input type="checkbox"/> HP
15.33	6.00	<input type="checkbox"/> N60L

Average HP —
Average N_{60L} —

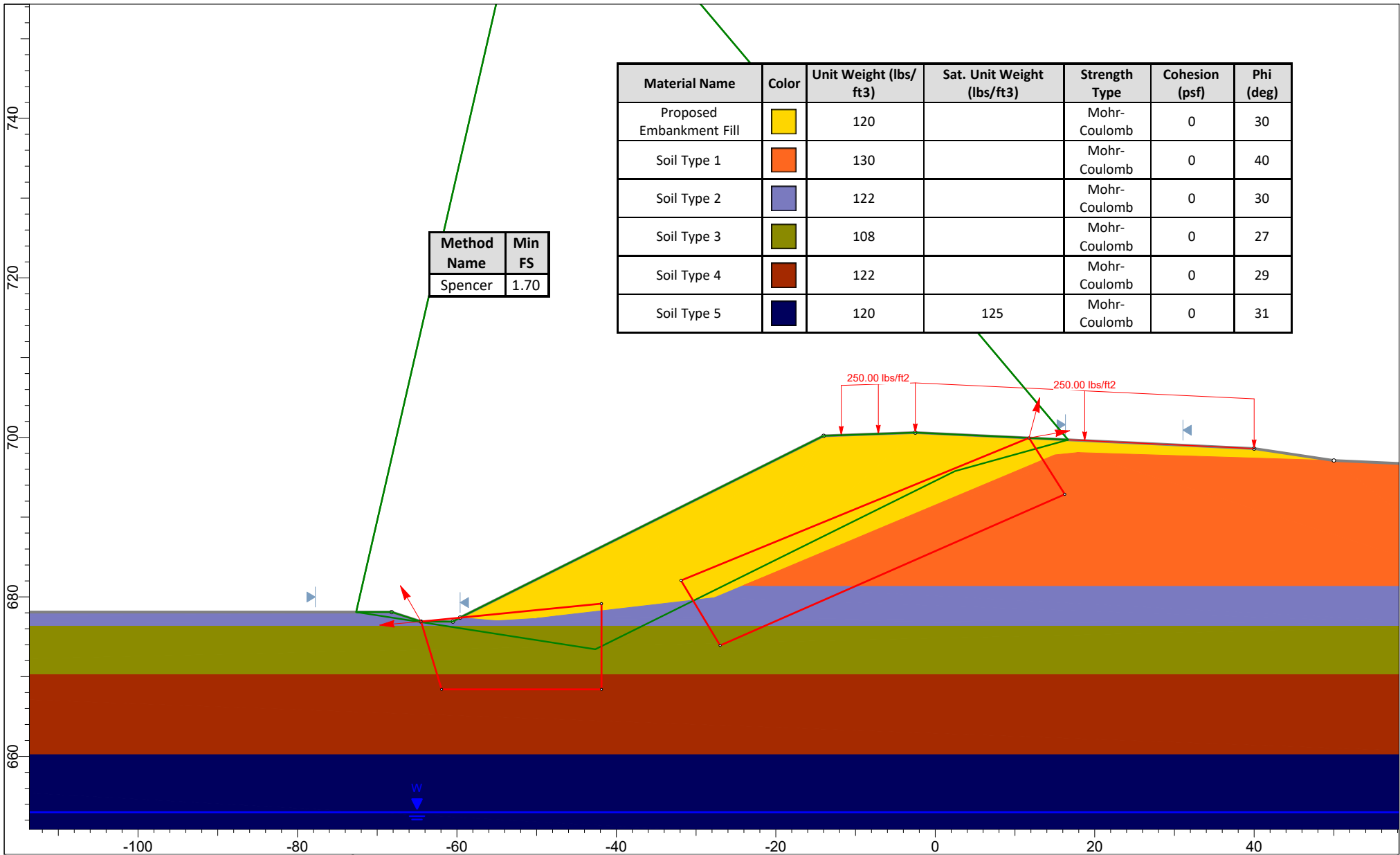
EMBANKMENT STABILITY ANALYSIS

RAMP A2 – STA. 409+00




Material Name	Color	Unit Weight (lbs/ft3)	Sat. Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)
Proposed Embankment Fill	Yellow	120		Mohr-Coulomb	0	30
Soil Type 1	Orange	130		Mohr-Coulomb	0	40
Soil Type 2	Purple	122		Mohr-Coulomb	0	30
Soil Type 3	Olive Green	108		Mohr-Coulomb	0	27
Soil Type 4	Brown	122		Mohr-Coulomb	0	29
Soil Type 5	Dark Blue	120	125	Mohr-Coulomb	0	31

	Project		CUY-90-16.28 (CCG3A), PID 82382	
	Analysis Description		Ramp A2 @ STA. 409+00, Embankment Stability - Effective Stress, Circular Failure	
	Drawn By	KCA	Company	NEAS Inc.
	Date	05/22/2024, 9:21:06 AM	File Name	RampA2_STA409+00_EffCirc052224.slim
	SLIDEINTERPRET 9.025			

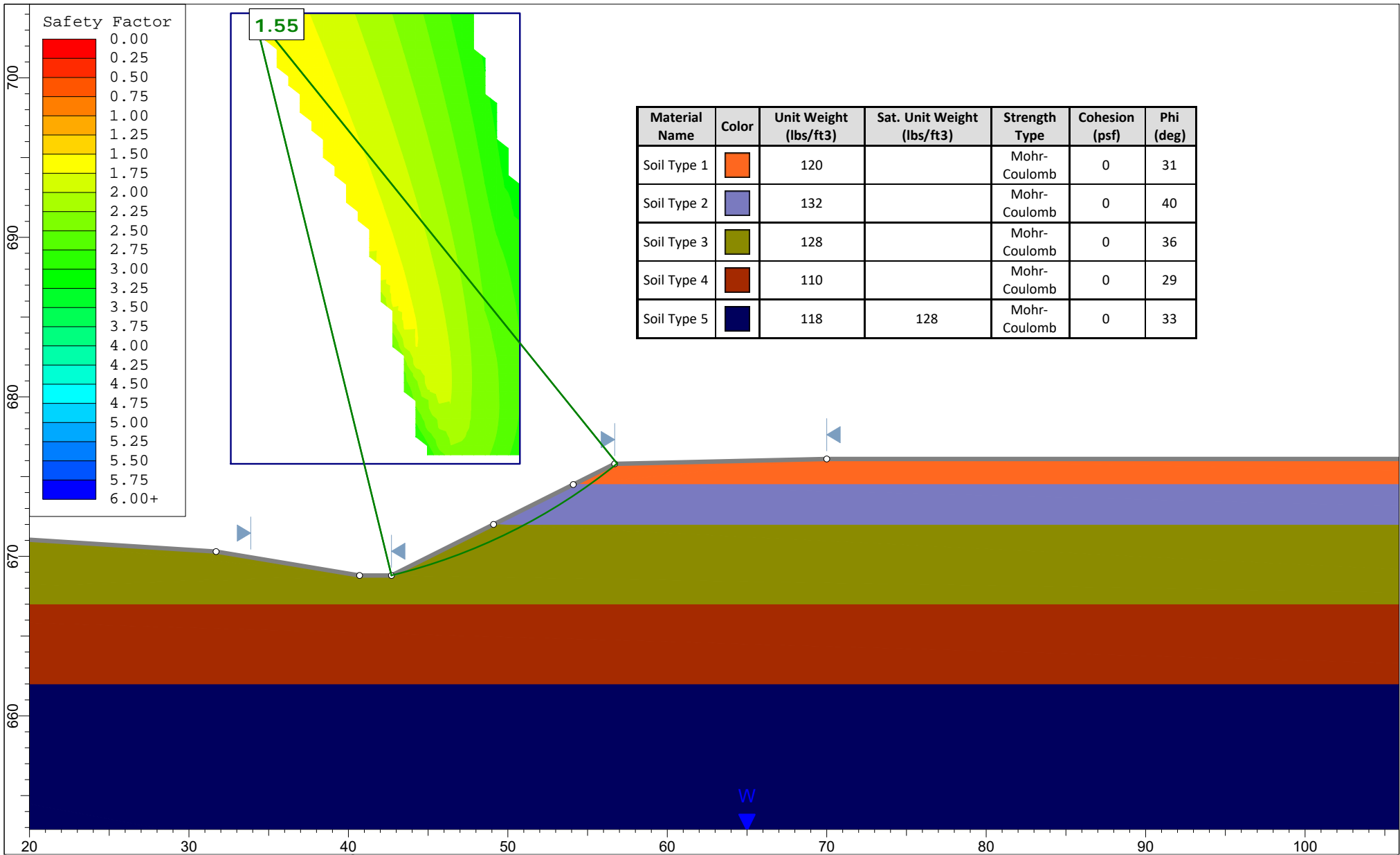



Method Name	Min FS
Spencer	1.70

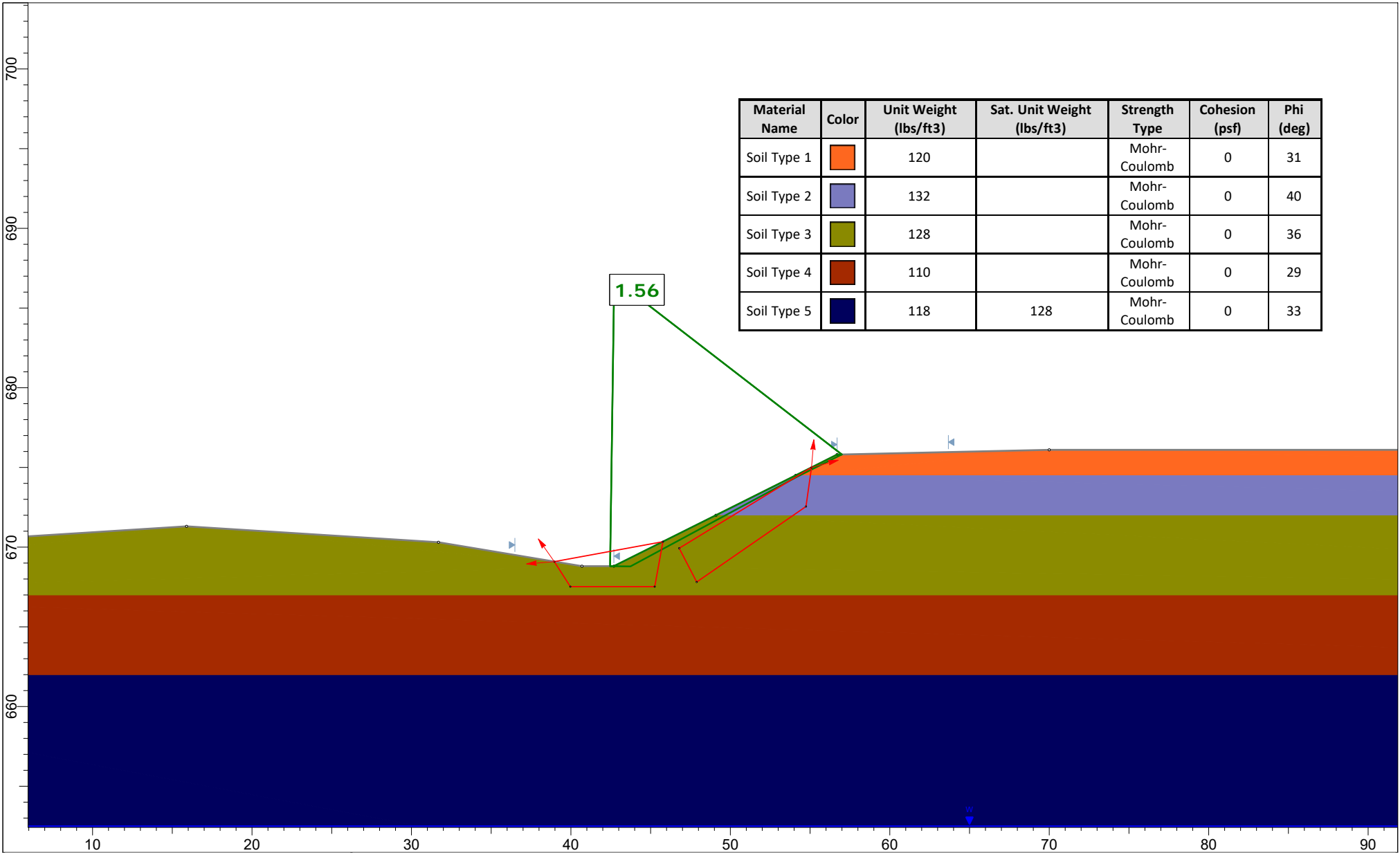
Material Name	Color	Unit Weight (lbs/ft ³)	Sat. Unit Weight (lbs/ft ³)	Strength Type	Cohesion (psf)	Phi (deg)
Proposed Embankment Fill	■	120		Mohr-Coulomb	0	30
Soil Type 1	■	130		Mohr-Coulomb	0	40
Soil Type 2	■	122		Mohr-Coulomb	0	30
Soil Type 3	■	108		Mohr-Coulomb	0	27
Soil Type 4	■	122		Mohr-Coulomb	0	29
Soil Type 5	■	120	125	Mohr-Coulomb	0	31






	Project		CUY-90-16.28 (CCG3A), PID 82382	
	Analysis Description		Ramp A2 @ STA. 409+00, Embankment Stability - Effective Stress, Block Failure	
	Drawn By	KCA	Company	NEAS Inc.
	Date	05/22/2024, 9:21:06 AM	File Name	RampA2_STA409+00_EffBlock052224.slim
	SLIDEINTERPRET 9.025			


RAMP IJ3 – STA. 108+50



	Project		CUY-90-16.28 (CCG3A), PID 82382	
	Analysis Description		Ramp IJ3 @ STA. 108+50, Embankment Stability - Effective Stress, Circular Failure	
	Drawn By	KCA	Company	NEAS Inc.
	Date	05/22/2024, 9:21:06 AM	File Name	RampIJ3_STA108+50_EffCirc052224.slim
	SLIDEINTERPRET 9.025			



Material Name	Color	Unit Weight (lbs/ft ³)	Sat. Unit Weight (lbs/ft ³)	Strength Type	Cohesion (psf)	Phi (deg)
Soil Type 1		120		Mohr-Coulomb	0	31
Soil Type 2		132		Mohr-Coulomb	0	40
Soil Type 3		128		Mohr-Coulomb	0	36
Soil Type 4		110		Mohr-Coulomb	0	29
Soil Type 5		118	128	Mohr-Coulomb	0	33

	<i>Project</i> CUY-90-16.28 (CCG3A), PID 82382	
	<i>Analysis Description</i> Ramp IJ3 @ STA. 108+50, Embankment Stability - Effective Stress, Block Failure	
	<i>Drawn By</i> KCA	<i>Company</i> NEAS Inc.
	<i>Date</i> 05/22/2024, 9:21:06 AM	<i>File Name</i> RampIJ3_STA108+50_EffBlock052224.slim
	<small>SLIDEINTERPRET 9.025</small>	