#### GEOTECHNICAL ENGINEERING REPORT

# INTERSTATE HIGHWAY 43 MILWAUKEE COUNTY LINE TO STATE HIGHWAY 60 OZAUKEE COUNTY, WISCONSIN PROJECT ID: 1229-04-01

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## INTERSTATE HIGHWAY 43 MILWAUKEE COUNTY LINE TO STATE HIGHWAY 60 OZAUKEE COUNTY, WISCONSIN PROJECT ID: 1229-04-01

#### **EXECUTIVE SUMMARY**

- Select materials in subgrade are recommended to be incorporated into the project.
- EBS will be needed for widening at the following locations.
  - SB STA 1440+00 to STA 1448+00 LT
  - SB STA 1457+00 to STA 1459+00 LT
  - NB STA 1456+00 to STA 1462+00 RT
  - SB STA 1473+00 to STA 1477+00 LT
  - NB STA 1472+00 to STA 1476+00 RT
  - NB STA 1473+00 to STA 1486+00 RT
  - SB STA 1585+00 to STA 1605+50 LT
  - NB STA 1587+00 to STA 1601+00 Median
  - NB STA 1588+00 to STA 1596+00 RT
  - NB STA 1636+50 to STA 1637+50 Median
  - SB STA 1658+50 to STA 1667+50 LT
  - SB STA 1597+50 to STA 1700+00 LT
  - NB STA 1746+50 to STA 1748+75 RT
- Actual volumes of EBS will be a function of the EBS backfill option chosen. EBS areas listed should be considered full width for the lengths provided.
- It is recommended that 4000 lineal feet of undistributed EBS be added, in addition to the areas listed above, for the unstable soils that are expected to be encountered within the pavement widening areas.
- Select materials/EBS backfill areas can consist of the following:
  - 1. 16 inches of breaker run/select crushed material
  - 2. 20 inches of pit run sand and gravel
  - 3. 24 inches of Grade 1 granular Backfill
  - 4. 30 inches of Grade 2 granular Backfill
- Expansion factors are provided on Page 23 of this report.

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- Soils removed as EBS are recommended to be wasted offsite and not reused as fill.
- Marsh excavation is not expected to be needed on this project. However, areas of deeper topsoil will be encountered and should be removed prior to placement of new embankment materials.
- An average topsoil depth of 12 inches should be used for estimating topsoil removal quantities.
- The following soil parameters are recommended to be used for pavement design

Design Group Index: 12

Frost Index: F-3

Soil Support Value: 4.7\*

Modulus of Subgrade Reaction: 375\* pounds per cubic inch

\*Based on Select Materials used in subgrade

#### **INTRODUCTION**

A Geotechnical Engineering Analysis has been performed for the proposed project to provide design parameters. Pavement design parameters were provided in accordance with WisDOT *Geotechnical Bulletin No. 1*. Recommendations regarding construction issues are also addressed in this report. We should be contacted if the scope of the project changes to see if revisions to the recommendations contained herein are needed.

#### SITE AND PROJECT DESCRIPTION

It is understood that the proposed project is to consist of the reconstruction of Interstate Highway (I) 43 from the Milwaukee County Line to State Highway 60 in Ozaukee County, Wisconsin. Presently I-43 consists of a 4 lane divided highway with urban and rural cross sections. According to the project plans, dated February 2013, the travel lanes are 12 feet wide. Paved shoulders adjacent to the lanes vary from 0 to 10 feet wide. The pavement section consists of hot mix asphalt (HMA) over Portland Cement Concrete (PCC) over a crushed aggregate base course. The existing pavement is generally in fair condition. It is understood that the roadway portion of the project will generally consist of expanding the highway to 6 lanes and reconstructing/reconfiguring the interchanges, and their associated ramps and side roads, which lie within the project limits.

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#### SUBSURFACE EXPLORATION

A total of 311 test borings were drilled between July 2014 and January of 2015 as part of the exploration and analysis. The test borings were drilled with conventional truck mounted drilling equipment. An all terrain drill rig was used to drill test borings that were off of the existing roadway in difficult to reach locations. Soil samples were collected from each test boring and were returned to the Wisconsin Department of Transportation (WisDOT) Southeast Region Soils Unit laboratory for classification purposes. The test borings were generally drilled to depths of 5 to 25 feet below the existing ground surface.

A boring location plan is also included in Appendix A. The test boring logs are included in Appendix B.

#### **Subsoil Conditions**

The United Sates Department of Agriculture, Soil Conservation Service, *Soil Survey of Ozaukee County, Wisconsin*, dated September 1970 was reviewed. The United States Geologic Survey *Topographic Map* of the region was also reviewed.

According to the *Soil Survey* the predominant soil types present at the project location generally consist of Kewaunee and Manawa soils. It is apparent that grading activities have taken place in the vicinity of the roadway and the actual soil types present may be greatly different than those listed in the *Soil Survey*.

The *Kewaunee soils* are well drained or moderately well drained soils that consist of a thin layer of silt loam over a clay loam subsoil that is underlain by calcareous silty clay till. These soils are on glacial ground moraines east of the Milwaukee River in the northern part of Milwaukee County. They occupy areas of irregular shape on convex side slopes.

In a typical profile, the surface layer is silt loam and is about 8 inches thick. The subsurface layer is silt loam that is about 2 inches thick. The subsoil is about 14 inches thick. The upper part of the subsoil is clay. The lower part is silty clay. The substratum is silty clay glacial till that is strongly calcareous.

The Kewaunee soils are slowly permeable and have high available water capacity. In some places ground water is less than 5 feet below the surface in wet periods. The Kewaunee soils are considered an unsuitable source of sand and gravel. They have moderate to very severe limitations for roadway construction and as a subgrade material.

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The *Manawa soils* consist of somewhat poorly drained, silty soils that have a silty clay subsoil over calcareous silty clay glacial till. These soils occupy the concave side slopes of drainage ways and slight depressions. They lie east of the Milwaukee River in the northern part of Milwaukee County.

In a typical profile, the surface layer is silt loam about 9 inches thick. The subsurface layer is mottled silty clay loam about 3 inches thick. The subsoil is about 18 inches thick. The upper part of the subsoil is mottled silty clay. The lower part is strongly calcareous, mottled silty clay. The substratum is strongly calcareous, mottled silty clay glacial till containing a few pebbles and a few segregations of soft lime.

The Manawa soils are slowly permeable and have high available water capacity. Ground water is less than 3 feet below the surface in wet periods. Manawa soils are considered an unsuitable source for sand and gravel. They have severe to very severe limitations for roadway construction and as a subgrade material.

According to the *Soil Survey* Casco Loam, Fabius Loam, Fox Loam, Lorenzo Loam, Mussey Loam, Muskego Muck and Sisson Loam soils are also present along the proposed project but to a lesser extent, generally <1% of the total project area.

#### **Test Borings**

The following paragraphs are a brief description of the soil conditions encountered in the test borings. A more detailed description of the soil conditions can be found on the test boring logs found in Appendix B.

The test borings have been separated into the following sections: B-XX indicate borings performed within the existing IH-43 pavement and shoulders, SR-XX indicate borings performed along the side road alignments and MP-XX indicate borings performed within the delineated wetlands along the corridor.

The following test borings were drilled in the existing pavement or shoulders along I-43. The pavement thickness at the test boring locations is shown in the following table:

	Pavement Thickness <sup>1</sup>						
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)	
B29	I-43 NB	1319+00	40' Rt	4	9	4	
B30	I-43 SB	1329+00	40' Lt	3.5	6.5	6	
B31	I-43 NB	1339+00	40' Rt	4	8	5	
B32	I-43 SB	1340+00	40' Lt	3.5	8	6	

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D22	I 12 ND	1242+00	40' D+	2.5	7.5	5
B33	I-43 NB	1342+00	40' Rt	3.5	7.5	_
B34	I-43 SB	1345+00	40' Lt	6.5	0	9
B35	I-43 SB	1349+00	40' Lt	7	0	8
B36	I-43 SB	1350+00	40' Lt	7	0	5
B37	I-43 NB	<b>1390</b> +00	40' Rt	4.5	8	5.5
B40	I-43 SB	<b>1400</b> +00	25' Lt	5	10	0
B41	I-43 NB	<b>1420</b> +00	25' Rt	5.5	8.5	0
B43	I-43 NB	<b>1450</b> +00	10' Lt	4.5	9	0
B46	I-43 SB	<b>1460</b> +00	15' Lt	0	0	1
B47	I-43 NB	1490 +00	15' Rt	3.5	10.5	0
B50	I-43 SB	1500 ±00	15' Lt	4	9.5	0
B51	I-43 NB	1520 ±00	15' Rt	4.5	10	0
B54	I-43 SB	1540 +00	20' Lt	5	10	0
B55	I-43 NB		15' Rt	5.5	9.5	0
B58	I-43 SB	1570 +00	15' Lt	4.5	9.5	0
B59	I-43 NB	1580 +00	15' Rt	4.5	9	0
B62	I-43 SB	1610 +00	20' Lt	4	9.5	0
B63	I-43 NB	+00	15' Rt	4	9	0
B66	I-43 SB	1650 +00	20' Lt	4	9	0
B67	I-43 NB	<b>1660</b> +00	51' Rt	4	9	0
B70	I-43 SB	1690 +00	15' Lt	4	9	0
B71	I-43 NB	1700 +00	15' Rt	3.5	10	0
B74	I-43 SB	<b>1730</b> +00	20' Lt	4	9.5	4.5
B75	I-43 NB	<b>1740</b> +00	15' Rt	4.5	10	0
B78	I-43 SB	<b>1770</b> +00	15' Lt	4	9	0
1 – Pavemen	nt thickness w	as determined	d in the field	during drillin	ıg.	

The following test borings were drilled in unpaved areas along IH-43. The topsoil thickness at the test boring locations is shown in the following table:

Topsoil Thickness <sup>1</sup>							
Test Boring No.	Location	STA	Offset	Topsoil (inches)			
B38	I-43 SB	1370 +00	0	2			
B39	I-43 NB	1380 +00	0	4			
B42	I-43 SB	<b>1410</b> +11	20' Lt	12			
B44	I-43 SB	<b>1430</b> +00	0	4			
B45	I-43 NB	1440 +00	0	6			
B48	I-43 SB	<b>1470</b> +00	0	3			
B49	I-43 NB	1480 +00	0	6			
B52	I-43 SB	<b>1510</b> +00	0	2			

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B53	I-43 NB	<b>1520</b> +00	0	3		
B56	I-43 SB	<b>1550</b> +00	0	3		
B57	I-43 NB	<b>1560</b> +00	0	2		
B60	I-43 SB	<b>1590</b> +00	0	2		
B61	I-43 NB	<b>1600</b> +00	5' Lt	2		
B64	I-43 SB	<b>1630</b> +00	0	3		
B65	I-43 NB	1640 +00	5' Lt	2		
B68	I-43 SB	<b>1670</b> +00	0	3		
B69	I-43 NB	1680 +00	5' Lt	2		
B72	I-43 SB	<b>1710</b> +00	0	3		
B73	I-43 NB	<b>1720</b> +00	10' Lt	2		
B76	I-43 SB	1750 +00	6' Rt	2		
B77	I-43 NB	<b>1760</b> +00	10' Lt	3		
1 – Topsoil	1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.					

Fill and possible soils were encountered in Test Boring Nos. B-38, 40, 43, 49, 50, 55, 58, 64, 65, 66, 67, 68, 69, 70, 71, 75 and 78 to depths of approximately 2.5 to 5 feet below grade. The fill and possible fill at locations B-38, 41 and 47 extended to approximately 5 to 10 feet below existing ground surface, the maximum depths explored at these locations.

The fill and possible fill soils generally consisted of silty clay, medium to coarse sand, clayey silt, sand and crushed concrete. The underlying apparent natural soils, where encountered, generally consisted of silty clay, medium to coarse sand, fine sandy clay, silty clay to clayey silt, clayey silt, silty fine sand and fine sandy silt soils to depths of at least 10 feet below grade, the maximum explored.

#### Side Roads and Ramps

The following test borings were drilled along intersecting roads and associated entrance and exit ramps. The pavement and topsoil thickness at the test boring locations are shown in the following tables:

#### Mequon Rd.

	Pavement Thickness <sup>1</sup>						
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)	
SR66	Mequon Rd	24+00	35' Lt	3	6	6	
SR67	Mequon Rd	26+50	9' Rt	4	7.5	6	
SR70	Mequon Rd	40+00	10' Lt	5.5 + 4	0	3	

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#### 1 – Pavement thickness was determined in the field during drilling.

Topsoil Thickness <sup>1</sup>							
Test Boring No.	Location	STA	Offset	Topsoil (inches)			
	Mequon						
SR65	EB	23+00	35' Rt	12.5			
SR68	Mequon WB	30+00	40' Lt	12			
	Mequon						
SR69	EB	39+00	15' Rt	16			
SR71	Ramp A	<b>1419</b> +00	0	12			
SR72	Ramp A	<b>1425</b> +00	0	9			
SR73	Ramp B	<b>1405</b> +00	0	4			
SR74	Ramp B	<b>1416</b> +00	0	10			
SR75	Ramp C	<b>1415</b> +00	0	24			
SR76	Ramp C	<b>1416</b> +50	50' Lt	15			
SR77	Ramp D	<b>1420</b> +00	0	8			
1 – Topsoil	thickness dete	rmined at the	time of drill	ing by observation of open boreholes.			

Fill and possible fill was encountered in Test Boring Nos. SR-66, 68, 70, 72, 73, 75 and 76 to depths of approximately 3 to 9 feet below existing grade. The fill and possible fill generally consisted of silty clay with varying amounts of sand and gravel. Test boring SR-70 indicated silty sand and gravel to a depth of 7 feet underlain by approximately 1-foot of buried topsoil. The underlying apparent natural soils in the test borings generally consisted of silty clay, silty clay to clayey silt, silty sand, clayey silt, medium to coarse silty sand and sandy clay to a depth of at least 20 feet below grade, the maximum depth explored.

**Highland Drive** 

	Pavement Thickness <sup>1</sup>							
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)		
	Highland							
SR79	Rd	17+03	5' Rt	0	0	4		
	Highland							
SR81	Rd	27+00	10' Rt	0	0	10		
1 – Paveme	1 – Pavement thickness was determined in the field during drilling.							

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Topsoil Thickness <sup>1</sup>							
Test Boring No.	Location	STA	Offset	Topsoil (inches)			
0	Highland	11.50	202.14				
SR78	WB Highland	11+50	20' Lt	10			
SR80	WB	25+00	12' Lt	12			
SR83	Ramp A	<b>1530</b> +00	0	18			
SR84	Ramp A	<b>1536</b> +00	0	6			
SR85	Ramp B	<b>1510</b> +00	6.5' Rt	7			
SR87	Ramp B	<b>1523</b> +33	0	5.5			
SR88	Ramp C	<b>1514</b> +00	15' Rt	11			
SR90	Ramp D	<b>1526</b> +00	35' Rt	18			
1 – Topsoil	thickness dete		time of drilli	ing by observation of open boreholes.			

Fill and possible fill was encountered in Test Boring Nos. SR-79, 81 and 90 to depths of approximately 3 to 13 feet below grade. The fill generally consisted of silty clay and sand and gravel. The underlying apparent natural soils generally consisted of silty clay to a depth of at least 30 feet below grade, the maximum depth explored.

CTH C

Pavement Thickness <sup>1</sup>							
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)	
SR92	CTH C	250+00	10' Rt	6	0	12	
SR94	CTH C	265+00	20' Rt	0	0	12	
SR95	CTH C	265+00	38' Lt	0	0	12	
SR96	CTH C	270+00	15' Lt	10	0	2	
	CTH C						
SR103	Ramp B	2272+79	0	7	0	12	
1 - Paveme	1 – Pavement thickness was determined in the field during drilling.						

Topsoil Thickness <sup>1</sup>						
Test	Location STA Offset Topsoil					
Boring No.				(inches)		
SR93	CTH C	255+00	6' Lt	11		
SR97	Ramp A	<b>1634</b> +07	0	7		
SR98	Ramp A	<b>1645</b> +00	0	5		

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SR99	Ramp B	<b>1622</b> +00	0	4.5	
SR100	Ramp B	<b>1632</b> +50	0	6	
SR101	Ramp C	<b>1621</b> +00	12' Rt	11	
SR102	Ramp C	<b>1632</b> +50	0	6	
SR104	Ramp D	<b>1637</b> +00	0	9	
1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.					

Fill and possible fill was encountered in Test Boring Nos. SR-92, 93, 95, 96, 97, 98 and 104 to depths of approximately 4 to 11 feet below grade. The fill generally consisted of silty clay, silty sand and gravel and sand and gravel. Boring SR-93 indicated approximately 3-feet of sand and gravel fill and 12 inches of asphalt pavement which was underlain by silty clay with sand and gravel fill to a depth of about 8 feet. Additionally a zone of buried topsoil was encountered within the boring below the aforementioned fill soils. Buried topsoil was also encountered in borings SR-97 and 98 at depths of about 12 feet and 7 feet, respectively, below existing ground surface. Borings SR-92 and 95 were terminated at plan depths of 6 feet and 5 feet, respectively, below existing ground surface and did not extend through the fill or possible fill soils. The underlying apparent natural soils in the remainder of the test borings generally consisted of silty clay to a depth of at least 25 feet below grade, the maximum depth explored.

#### Lakefield Road

Pavement Thickness <sup>1</sup>									
Test Boring No.	Location	LocationSTAOffsetHMA (inches)PCC (inches)Base (Course (inches))							
SR105	Lakefield	41+90	0	10	0	8			
SR106 Lakefield 47+00 10' Lt 4 0 12									
1 – Paveme	1 – Pavement thickness was determined in the field during drilling.								

Fill was encountered in Test Boring Nos. SR- 105 and 106 to depths of 6 feet below grade, the plan depths of the borings. The fill generally consisted of silty clay, sand gravel and silty sand.

**Falls Road** 

Pavement Thickness <sup>1</sup>						
Test Boring No.	Location	STA	Offset	HMA (inches)	PCC (inches)	Base Course (inches)
SR107	Falls Rd	35+00	7' Rt	0	0	12

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SR108	Falls Rd	44+00	10' Lt	6	0	12	
1 – Pavement thickness was determined in the field during drilling.							

Fill was encountered in Test Boring Nos. SR- 107 to a depth of approximately 6 feet below grade. The fill generally consisted of silty clay. The underlying apparent natural soils in the test borings generally consisted of silty clay to a depth of at least 10 feet below grade, the maximum depth explored.

**STH 60** 

Topsoil Thickness <sup>1</sup>						
Test	Location					
Boring No.				(inches)		
SR109	Ramp B	<b>1769</b> +00	0	6		
SR110	Ramp B	<b>1773</b> +00	0	6		
SR111	Ramp C	<b>1770</b> +00	0	6		
1 – Topsoil thickness determined at the time of drilling by observation of open boreholes.						

Possible fill was encountered in Test Boring No. SR-110 to a depth of approximately 5 feet below the existing grade. The possible fill generally consisted of silty clay with varying amounts of sand, gravel and organics. The boring was terminated at the plan depths of 5 feet below existing ground surface and did not extend through possible fill soils. The underlying apparent natural soils in the remainder of the test borings generally consisted of silty clay or salty sand and gravel and clayey silt to depths of at least 10 feet below grade, the maximum depth explored.

#### Marsh Probes

The following marsh probes were performed within the identified wetlands along the proposed IH-43 project corridor roadway expansion. The purpose of the Marsh probes was to identify potential marsh excavation and/or zones of deeper topsoil.

	Marsh Probes <sup>1</sup>							
Test Boring No.	Location	STA	Offset	Topsoil (inches)				
MP16	I-43 NB	1391+00	75' RT	6				
MP18	I-43 SB	<b>1392</b> +75	63' Lt	0				
MP19	I-43 NB	<b>1693</b> +00	100' RT	13				
MP21	I-43 NB	1395 +00	80' RT	6				
MP22	I-43 SB	1395 +00	90' LT	24				

MP23     I-43 NB     1397 +00     100' RT     12       MP25     I-43 NB     1398 +00     80' RT     24       MP26     I-43 SB     1399 +00     95' LT     12	
MP27 I-43 NB 1434 +85 70' RT 10	
MP28 I-43 SB 1440)+00 70'LT 24	
MP29 I-43 SB 1442 +00 87' LT 12	
MP30 I-43 SB 1444 +00 70' LT 24	
MP31 I-43 SB 1446 +00 78' LT 24	
MP32 I-43 SB 1448 +00 70' LT 12	
MP33 I-43 SB 1453 +00 70' LT 12	
MP35 I-43 NB 1457 +00 70' RT 36	
MP36 I-43 SB 1457 +00 70' LT 12	
MP37 I-43 NB 1459 +00 90' RT 36	
MP38 I-43 SB 1459 +00 70' LT 12	
MP39 I-43 NB 1461 +00 70' RT 12	
MP40 I-43 SB 1461 +00 70' LT 24	
MP41 I-43 NB 1472 +00 70' RT 14	
MP42 I-43 SB 1473 +00 87' LT 12	
MP43 I-43 NB 1474 +00 110' RT 14	
MP44 I-43 SB 1475 +00 70' LT 12	
MP45 I-43 NB 1476)+00 70' RT 12	
MP46 I-43 SB 1477 +00 91 LT 12	
MP47 I-43 NB 1478}+50 70' RT 12	
MP48 I-43 SB 1479 +00 70' LT 12	
MP49 I-43 NB 1481 +00 100' RT 14.5	
MP50 I-43 SB 1481 +00 100' LT 12	
MP51 I-43 SB 1482 +00 70' LT 12	
MP52 I-43 NB 1483 +00 70' RT 12	
MP53 I-43 NB 1485 +00 100' RT 36	
MP54 I-43 NB 1485 +75 70' RT 36	
MP55 I-43 NB 1571 +50 60' RT 8	
MP56 I-43 NB 1572 +50 25' LT 12	
MP57 I-43 NB 1573 +00 105' RT 14	
MP58 I-43 NB 1573 +50 25' LT 12	
MP59 I-43 NB 1575 +00 75' RT 12	
MP60 I-43 SB 1583 +00 95' LT 12	
MP61 I-43 NB 1585 +00 25' LT 12	
MP62 I-43 NB 1585 +00 59' Rt 12	
MP63 I-43 SB 1585 +00 48' LT 0	
MP64 I-43 NB 1586)+50 70' RT 12	
MP65 I-43 NB 1587 +00 25' LT 12	

MP66	I-43 SB	<b>1587</b> ′+00	53' LT	0
MP67	I-43 NB	<b>1588</b> 3+00	57' Rt	12
MP68	I-43 NB	<b>1589</b> )+00	25' LT	12
MP69	I-43 SB	<b>1589</b> )+00	48' LT	0
MP70	I-43 NB	<b>1591</b> +00	25' LT	12
MP71	I-43 SB	<b>1591</b> +00	100' LT	12
MP72	I-43 NB	<b>1592</b> +00	75' RT	12
MP73	I-43 NB	<b>1593</b> ;+00	25' LT	12
MP74	I-43 SB	<b>1593</b> +00	48' LT	0
MP75	I-43 NB	<b>1595</b> +00	25' LT	12
MP76	I-43 SB	<b>1595</b> +00	50' LT	0
MP77	I-43 NB	<b>1596</b> +00	60' RT	12
MP78	I-43 NB	<b>1597</b> ′+00	25' LT	12
MP79	I-43 SB	<b>1597</b> ′+00	50' LT	0
MP80	I-43 SB	<b>1599</b> )+00	90' LT	12
MP81	I-43 NB	1600)+00	80' RT	12
MP82	I-43 NB	<b>1601</b> +00	25' LT	12
MP83	I-43 SB	1601 +00	51' LT	36
MP84	I-43 NB	1603 +00	25' LT	12
MP85	I-43 SB	<b>1603</b> +00	60' LT	12
MP86	I-43 NB	<b>1603</b> +50	85' RT	12
MP87	I-43 NB	<b>1605</b> +00	25' LT	12
MP88	I-43 SB	<b>1605</b> +00	80' LT	12
MP89	I-43 SB	<b>1607</b> ′+00	60' LT	12
MP90	I-43 SB	<b>1608</b> 3+50	52' LT	12
MP91	I-43 NB	<b>1625</b> +75	60' RT	12
MP92	I-43 SB	<b>1629</b> )+00	75' LT	36
MP93	I-43 NB	<b>1629</b> )+70	75' RT	12
MP94	I-43 NB	<b>1630</b> )+15	150' RT	12
MP95	I-43 SB	<b>1631</b> +25	75' LT	12
MP96	I-43 NB	<b>1632</b> 1+00	175' RT	18
MP97	I-43 NB	<b>1632</b> +40	65' RT	12
MP98	I-43 NB	<b>1634</b> +00	175' RT	12
MP99	I-43 NB	<b>1634</b> +00	75' RT	12
MP100	I-43 SB	<b>1634</b> +50	75' LT	36
MP101	I-43 NB	<b>1635</b> +00	25' LT	12
MP102	I-43 NB	<b>1635</b> +75	125' RT	12
MP103	I-43 NB	<b>1636</b> )+00	75' RT	36
MP104	I-43 SB	<b>1636</b> )+25	75' LT	12
MP105	I-43 NB	<b>1637</b> ′+00	25' LT	12
MP106	I-43 SB	<b>1637</b> ′+00	75' LT	12

MP107	I-43 NB	<b>1637</b> +75	75' RT	12
MP108	I-43 NB	<b>1639</b> +00	33' LT	12
MP110	I-43 NB	<b>1640</b> +50	25' LT	12
MP111	I-43 NB	<b>1653</b> +00	65' RT	12
MP112	I-43 SB	<b>1653</b> +00	65' LT	12
MP113	I-43 NB	<b>1655</b> +00	65' RT	12
MP114	I-43 NB	<b>1657</b> +00	85' RT	14
MP115	I-43 SB	<b>1657</b> +00	65' LT	48
MP116	I-43 NB	<b>1659</b> +00	65' RT	12
MP118	I-43 SB	<b>1660</b> +00	73' LT	54
MP119	I-43 NB	<b>1662</b> +50	65' RT	12
MP120	I-43 SB	<b>1663</b> +00	70' LT	54
MP121	I-43 NB	1664 +00	85' RT	12
MP122	I-43 NB	<b>1666</b> +00	65' RT	36
MP123	I-43 SB	<b>1666</b> +00	65' LT	36
MP124	I-43 NB	<b>1668</b> +50	65' RT	36
MP125	I-43 SB	<b>1669</b> +00	77' LT	12
MP126	I-43 NB	<b>1670</b> +00	80' RT	36
MP127	I-43 NB	<b>1672</b> +00	65' RT	18
MP128	I-43 SB	<b>1672</b> +00	80' LT	36
MP129	I-43 SB	<b>1686</b> +60	100' LT	12
MP130	I-43 SB	1689 +00	121' LT	36
MP131	I-43 SB	<b>1690</b> +50	100' LT	12
MP132	I-43 SB	<b>1696</b> +00	85' LT	12
MP133	I-43 SB	<b>1698</b> +00	95' LT	36
MP134	I-43 SB	<b>1699</b> +75	75' LT	36
MP135	I-43 NB	<b>1715</b> +00	75' RT	12
MP136	I-43 NB	<b>1715</b> +50	100' RT	36
MP137	I-43 NB	<b>1716</b> +75	75' RT	12
MP138	I-43 SB	<b>1718</b> +75	100' LT	36
MP139	I-43 SB	<b>1720</b> +00	108' LT	36
MP140	I-43 SB	<b>1721</b> +25	100' LT	12
MP141	I-43 NB	<b>1734</b> +25	75' RT	12
MP142	I-43 NB	<b>1735</b> +75	75' RT	36
MP143	I-43 SB	<b>1736</b> +00	65' LT	12
MP144	I-43 NB	<b>1737</b> +00	75' RT	12
MP145	I-43 SB	<b>1737</b> +00	65' LT	12
MP146	I-43 NB	<b>1747</b> +00	100' RT	36
MP147	I-43 SB	<b>1747</b> +00	65' LT	12
MP148	I-43 NB	<b>1748</b> +00	75' RT	36
MP149	I-43 SB	<b>1748</b> +00	65' LT	36

MD150	I 42 NID	1776 : 00	75' DT	20					
MP150	I-43 NB	1776 +00	75' RT	20					
MP151	I-43 SB	1778 +50	75' RT	60					
MP158 MP159	Port Port	344+00 344+75	130' RT 152' RT	36 12					
MP159									
Mequon Rd									
MP160 MP161	Ramp B	1403 +45 1405 +00	40' RT 40' RT	11 12					
	Ramp B			12					
MP162	Ramp B	1407 +00	15' RT						
MP163	Ramp B	1409 +00	10' RT	12					
MP164	Ramp B	1411 +00	20' RT	12					
MP165	Ramp B	1413 +00	60' RT	3					
MP166	Ramp B	1414 +00	65' RT	3					
MP167	Mequon	38+43	34' RT	0					
MP168	Mequon	39+00	29' RT	0					
MP169	Ramp D	1425 +50	53' LT	24					
MP170	Ramp D	1426 +30	30' LT	24					
MP171	Ramp D	1427+00	30' LT	24					
157170			Highland Rd						
MP172	Ramp A	<b>1525</b> +50	15' RT	12					
MP173	Ramp A	<b>1527</b> +00	30' RT	12					
MP174	Ramp A	<b>1527</b> +00	25' LT	12					
MP175	Ramp A	<b>1528</b> +40	25' RT	30					
MP176	Ramp A	<b>1529</b> +50	35' LT	12					
MP177	Ramp A	<b>1530</b> +40	5' LT	32					
MP178	Ramp A	<b>1531</b> +50	0	9					
MP179	Ramp A	<b>1532</b> +65	15' RT	12					
MP180	Ramp A	<b>1542</b> +00	35' RT	15					
MP181	Ramp A	<b>1543</b> +00	50' RT	12					
MP182	Ramp A	<b>1544</b> +25	30' RT	12					
MP183	Ramp B	<b>1508</b> +50	50' RT	16					
MP184	Ramp B	<b>1510</b> +00	40' RT	12					
MP185	Ramp B	<b>1511</b> +00	25' RT	12					
MP186	Ramp B	<b>1512</b> +00	0	12					
MP189	Ramp B	<b>1519</b> +00	25' LT	36					
MP193	Ramp C	<b>1515</b> +20	17' RT	12					
MP194	Ramp C	<b>1516</b> +00	47' LT	12					
MP196	Ramp C	1519 +50	35' RT	12					
MP199	Ramp C	<b>1523</b> +50	26' RT	12					
MP200	Ramp D	<b>1527</b> +00	0	36					
MP201	Ramp D	1529 +00	0	12					
MP202	Ramp D	<b>1531</b> +00	0	12					

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boreholes.

MP203	Ramp D	<b>1533</b> +00	0	12
MP204	Ramp D	<b>1542</b> +00	20' LT	12
MP205	Ramp D	1543 +00	38' LT	12
MP206	Ramp D	<b>1544</b> +00	35' LT	36
MP207	Ramp D	<b>1544</b> +46	25' LT	12
			CTH C	
MP208	Ramp A	<b>1634</b> +00	100' RT	12
MP209	Ramp A	<b>1637</b> +60	25' RT	12
MP210	Ramp A	<b>1640</b> +00	0	12
MP211	Ramp A	<b>1642</b> +00	0	17
MP212	Ramp A	<b>1643</b> +00	20' RT	36
MP213	Ramp B	<b>1611</b> +50	35' RT	12
MP214	Ramp B	<b>1624</b> +00	15' LT	12
MP215	Ramp B	<b>1626</b> +00	0	12
MP216	Ramp B	1628 +00	25' RT	15
MP217	Ramp B	1630 +00	60' RT	15
MP219	Ramp C	1625 +00	30' LT	12
MP221	Ramp C	1627 +00	50' LT	12
MP222	Ramp C	1628 +00	0	12
MP223	Ramp C	1629 +00	25' LT	36
MP224	Ramp D	1634 +00	0	12
MP225	Ramp D	1641 +00	0	36
MP226	Ramp D	1643 +00	19' LT	36
MP227	Ramp D	<b>1645</b> +75	25' LT	12
			STH 60	
MP228	Ramp B	<b>1761</b> +00	25' RT	12
MP229	Ramp B	<b>1762</b> +50	25' RT	12
MP230	Ramp B	<b>1768</b> +25	35' RT	36
MP231	Ramp B	<b>1770</b> +00	20' RT	36
MP232	Ramp B	<b>1772</b> +00	25' RT	36
MP233	Ramp B	<b>1774</b> +00	35' RT	36
MP234	Ramp B	<b>1776</b> +00	43' RT	36
MP235	Ramp B	<b>1778</b> +00	53' RT	60
MP236	Ramp C	<b>1762</b> +00	25' LT	12
MP237	Ramp C	<b>1763</b> +00	51' Lt	36
MP238	Ramp C	<b>1765</b> +00	12' LT	12
MP239	Ramp C	<b>1767</b> +00	0	14
MP240	Ramp C	<b>1769</b> +00	8' RT	16
MP241	Ramp C	<b>1769</b> +75	8' RT	16
1 – Materi	al thickness	determined a	at the time	of drilling by observation of open

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Although areas of deeper topsoil were encountered within a number of the marsh probes significant depths of highly organic marsh type soils were not encountered within the marsh probes. Soft, somewhat saturated upper zone soils, below the surficial topsoil, were encountered in test boring Nos. MP- 29, 31, 35, 36, 37, 38, 39, 41, 42, 45, 46, 50, 52, 53, 54, 55, 56, 62, 63, 65, 67, 68, 71, 72, 75, 77, 78, 79, 82, 83, 88, 93, 94, 95, 99, 102, 105, 107, 116, 120, 134, 143, 146, 148, 162, 163, 169, 170, 171, 176, 182, 183, 199, 200, 201, 210, 214, 216, 219, 221, 223, 229, 230, 231, 232, 233, 234, 236 and 237.

Additionally, fill and possible fill soils were encountered in test boring Nos. MP-16, 21, 63. 64, 66, 69, 74, 76, 79, 91, 92, 129, 167, 168, 180, 181, 238 and 241 to depths of 3 to 8 feet below grade. The underlying apparent natural soils the test borings generally consisted of silty clay to a depth of at least 15 feet below grade, the maximum depth explored.

#### **Groundwater Conditions**

Depth of Water Encountered During Drilling <sup>1</sup>							
<b>Test Boring</b>	Location	STA	Offset	During Drilling			
No.				(feet)			
B65	I-43 NB	<b>1640</b> +00	5' Lt	4.5			
B67	I-43 NB	<b>1660</b> +00	15' Rt	8.9			
B68	I-43 SB	<b>1670</b> +00	0	8.9			
MP36	I-43 SB	<b>1457</b> +00	70' LT	8.8			
MP50	I-43 SB	<b>1481</b> +00	100' LT	0.25			
MP53	I-43 NB	<b>1485</b> +00	100' RT	At Surface			
MP57	I-43 NB	<b>1573</b> +00	105' RT	6.3			
MP66	I-43 SB	<b>1587</b> +00	53' LT	7.6			
MP88	I-43 SB	<b>1605</b> +00	80' LT	0.5			
MP91	I-43 NB	<b>1625</b> +75	60' RT	9.6			
MP99	I-43 NB	<b>1634</b> +00	75' RT	1			
MP103	I-43 NB	<b>1636</b> +00	75' RT	3.0			
MP107	I-43 NB	<b>1637</b> +75	75' RT	3.0			
MP108	I-43 NB	<b>1639</b> +00	33' LT	5.2			
MP112	I-43 SB	1653 +00	65' LT	6.4			
MP115	I-43 SB	<b>1657</b> +00	65' LT	7.4			
MP118	I-43 SB	1660 +00	73' LT	7.0			
MP120	I-43 SB	1663 +00	70' LT	8.0			
MP122	I-43 NB	1666 +00	65' RT	7.8			
MP123	I-43 SB	1666 +00	65' LT	7.7			
MP125	I-43 SB	1669 +00	77' LT	6.7			

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MP128	I-43 SB	1672	+00	80' LT	6.9			
MP130	I-43 SB	1689	+00	121' LT	1.5			
MP143	I-43 SB	1736	+00	65' LT	3.7			
MP150	I-43 NB	1776	+00	75' RT	4.9			
MP161	Ramp B	1405	+00	40' RT	1.0			
MP170	Ramp D	1426	+30	30' LT	7.6			
MP171	Ramp D	1427	+00	30' LT	7.2			
MP176	Ramp A	1529	+50	35' LT	8.2			
MP178	Ramp A	1531	+50	0	15.7			
MP211	Ramp A	1642	+00	0	6.4			
MP217	Ramp B	1630	+00	60' RT	8.9			
MP222	Ramp C	1628	+00	0	3.0			
MP223	Ramp C	1629	+00	25' LT	7.5			
MP225	Ramp D	1641	+00	0	8.1			
MP231	Ramp B	1770	+00	20' RT	7.4			
MP233	Ramp B	1774	+00	35' RT	7.5			
MP234	Ramp B	1776	+00	43' RT	3.9			
MP235	Ramp B	1778	+00	53' RT	5.4			
MP241	Ramp C	1769	+75	8' RT	6.8			
	1 – Depth to water determined in the field during drilling.							

Water was not encountered during drilling in any test borings not listed above. In general the groundwater depth is estimated at greater than 5 feet below the natural grade where these soil types exist. However, perched water is typically encountered in granular soils or topsoil that is underlain by cohesive soils and in existing fill soils.

According to the *Soil Survey* some of the soil types encountered within the project limits are associated with shallow groundwater. The following table presents the locations where shallow groundwater relative to the natural ground surface exists.

Location of Soils with Associated Shallow Groundwater <sup>1</sup>					
STA	1414	+87 to	STA	1418	+40
STA	1438	+00 to	STA	1448	+00
STA	1455	+29 to	STA	1464	+77
STA	1470	+88 to	STA	1475	+06
STA	1477	+47 to	STA	1483	+78
STA	1485	+77 to	STA	1486	+66
STA	1488	+01 to	STA	1491	+39
STA	1494	+19 to	STA	1496	+20

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STA	1504 -22 to STA 1	510 +01
STA	1530 -74 to STA 1	532 +97
STA	1570 -81 to STA 1	<b>574</b> +51
STA	1585 -50 to STA 1	599 +54
STA	1623 -40 to STA 1	632 +80
STA	1633 -24 to STA 1	646 +62
STA	1653 -71 to STA 1	697+30
STA	1695 -96 to STA 2	018 +20
STA	1735 -55 to STA 1	737 +00
STA	1746 -49 to STA 1	748 +38
STA	1760 -75 to STA 1	765 +04
1 –Manawa soils.		

The estimated groundwater table depth is considered a preliminary estimate and is based on the regional geology and site features. A more accurate estimate of the groundwater table would require the installation of groundwater observation wells along with observing the wells over an extended period of time.

#### CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations presented in this report are based on the subsoil conditions encountered during the subsurface exploration and the information provided on the submitted project plans. The Southeast Region Soils Unit should be provided with revised plans as soon as possible to determine if alterations to the recommendations contained herein are needed.

#### Select Materials in Subgrades

According to Chapter 11-5-15 of the (WisDOT) Facilities Development Manual (FDM) the proposed project is located within the standard inclusion area for select materials in subgrades. The FDM requires that projects located in the standard inclusion area have select materials incorporated into the subgrade.

The subsoil conditions encountered in the test borings ranged from somewhat uniform apparent natural clays to variable fill and possible fill soils. The onsite soils are considered to be moisture and disturbance sensitive and will likely become unstable when exposed to construction traffic when at an elevated moisture content.

Due to the presence of silty clay soils and somewhat varied subgrade soils within the existing embankment areas it is recommended to use select materials beneath the proposed pavement sections. Additionally within the new alignments and widened corridor portions of the project EBS can be expected due to varied fill possible fill and

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unstable upper apparent natural soils. Shallow ground water and perched water can be encountered during construction therefore, select materials would be necessary to build a stable platform prior to placement of additional embankment materials.

Several options for select materials are considered suitable for this project.

1. <u>Breaker Run Stone/Select Crushed Material</u>: A 16-inch thick layer of breaker run or select crushed material. The breaker run layer would be placed beneath the planned pavement and base course. The breaker run layer is recommended to extend laterally to the outside edge of pavement or 2 feet behind back of curb where applicable.

Breaker run generally consists of large stone, which is likely to contain a large amount of void space. Water will likely become trapped in the void space. Trapped water in the breaker run can cause softening of the underlying subgrade soils and allow for the breaker run containing large void space to settle into the soft soils resulting in an increase in pavement distress. Water trapped in the void space of the breaker run has the potential to freeze during the winter and heave the pavement structure supported above, resulting in increased pavement distress.

It is recommended that the layer of breaker run be drained to prevent the accumulation of water. Water within the breaker run layer is recommended to be removed through relief trenches that outfall to the outside ditches. Relief trenches should be spaced every 250 feet and at low points. In urban sections the breaker run can be drained by installing sections of draintile at low points in the profile and discharging them to suitable drainage structures.

- 2. <u>Pit Run Sand and Gravel</u>: Select materials can consist of placing 20 inches of pit run sand and gravel beneath the pavement and base course. The lateral extent for placement of pit run sand and gravel is the same as that for breaker run.
  - Similar to breaker run, pit run generally consists of large stone, which is likely to contain a large amount of void space that may trap water. The same provisions used to drain breaker run should be used for pit run.
- 3. <u>Grade 1 or Grade 2 Granular Backfill</u>: Select materials can consist of placing a 24-inch thick layer of Grade 1 Granular Backfill or a 30-inch thick layer of Grade 2 Granular Backfill beneath the planned pavement and base course. The granular backfill layer will need to extend laterally to outside edge of

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pavement or 2 feet behind back of curb where applicable. It is not considered necessary to drain the layer of Granular Backfill.

Select materials are not required to be placed on an unyielding subgrade. The use of select materials should reduce the amount of additional EBS that would be required for the project, since the select material layer will bridge/stabilize poorer support soils which would otherwise need to be removed.

It should be noted that some EBS and subgrade stabilization will be needed on this project in addition to the Select Materials layer due to the presence of poor soils. Recommendations regarding EBS and subgrade stabilization are addressed further in this report.

If during construction it is determined that the in-place granular soils are stable, then the Select Materials layer could be eliminated for stretches of the project. Decisions to remove the Select Materials layer should be made by the Project Engineer at the time of grading after a consultation with the Regional Geotechnical Engineer.

#### Stabilization/Excavation Below Subgrade

It is understood the project will include widening IH-43. The subsoil conditions encountered in some of the test borings within the widened portion of the project were highly variable. Some of the onsite soils are considered to be moisture and disturbance sensitive and may become unstable when exposed to construction traffic when at an elevated moisture content. It is expected that subgrade soils that become unstable will require EBS. The following table lists approximate areas where unstable soils will be encountered in the widening portions of the project. EBS in the following areas is expected to be performed between the existing roadway 1:1 and the toe of the new embankment slopes.

Anticipated EBS in Widening Areas				
Highway	Direction	Station		
IH 43	SB	STA 1440 +00 to STA 1448 +00 LT		
	SB	STA 1457 +00 to STA 1459 +00 LT		
	NB	STA 1456 +00 to STA 1462 -00 RT		
	SB	STA 1473 +00 to STA 1477 +00 LT		
	NB	STA 1472 +00 to STA 1476 -00 RT		
	NB	STA 1483 +00 to STA 1486 -00 RT		
	SB	STA 1585 +00 to STA 1605 -50 LT		
	NB	STA 1587 +00 to STA 1601 +00 Median		
	NB	STA 1588 +00 to STA 1596 +00 RT		
	NB	STA 1636 +50 to STA 1637 +50 Median		

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SB	STA 1658 -50 to STA 1667 +50 LT
SB	STA 1597-50 to STA 1700 +00 LT
NB	STA 1746 50 to STA 1748 +75 RT

If the granular backfill option is chosen careful EBS operations will be needed to avoid undermining of the mainline pavement of IH 43.

The total volume of undistributed EBS needed will be a function of the backfill option chosen, which will determine the thickness of EBS needed. Additional EBS is expected to be needed as well on this project. It is recommended to add an additional 4000 lineal feet of undistributed EBS to the project, which is to include both inside and outside shoulders in both directions. Whatever option is chosen for the above EBS areas should be used in the undistributed EBS areas as well.

Decisions regarding the need and location for EBS should be made by the Project Engineer at the time of grading after a consultation with the Regional Geotechnical Engineer.

#### Marsh Excavation

According to the Soil Survey Muskego and Palms soils are present along the project. Muskego and Palms soils are highly organic soils and extremely problematic. However, these soils were not encountered in any of the test borings. Therefore, marsh excavation is not expected to be needed on this project.

#### Site Stripping/Topsoil Removal

Remove vegetation, including heavy sod, from the roadway foundation. It is recommended to remove all surficial topsoil from underneath new embankment fill. Topsoil thicknesses encountered in the test borings are given in the Topsoil Thickness table in the <u>Subsoil Conditions</u> section of this report. Approximately 6 to 60 inches of topsoil was encountered at the ground surface in the test borings that were drilled outside of the existing roadway. An average topsoil depth of 12 inches is recommended to be used in determining removal quantities.

#### Pavement Removal

Pavement thicknesses are provided under the <u>Subsoil Conditions</u> section of this report. Section 205.3.2 requires that all pavement be removed to a depth of 2 feet below the finished grade line. Removed pavement could be disposed of offsite or salvaged per Section 490 of the Standard Specifications and reused as fill elsewhere on the project.

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Removed pavement could also be used as a subgrade stabilization material provided it is processed to a size similar to that of Breaker Run per Section 311.

#### **Groundwater Concerns**

A shallow groundwater table relative to the natural ground surface is estimated to exist in the locations indicated in the <u>Groundwater Conditions</u> section of this report. In most of those locations the proposed construction will likely be higher than the estimated groundwater elevation.

Water is recommended to be removed from subgrade surfaces prior to fill placement. Water can be removed through conventional methods such as with temporary drainage ditches or through the use of conventional pumps placed in shallow excavated sumps.

Excavation below the water table is recommended to be kept to a minimum where shallow water is encountered. Dewatering below the water table is likely to be difficult and not economically feasible. Therefore, where it is not practical to dewater beneath the water table, it is recommended that a layer of granular material be placed to at least one foot above the standing water to provide a stable, dry base to place fill from.

#### Fill Placement/Compaction

Embankment fill is recommended to be constructed in accordance with Section 207 of the Standard Specifications. Standard compaction per Section 207.3.6.2 is considered suitable for this project.

Specialized compaction equipment such as rollers, are still required to be used under the standard compaction specification. The engineer can waive the requirement to use specialized compaction equipment if in the engineer's opinion hauling equipment is achieving satisfactory compaction. However, it is not recommended to waive this requirement.

Fill is recommended to be placed in loose lifts not exceeding 8 inches per the Standard Specifications except as noted in the <u>Stabilization/Excavation Below Subgrade</u> section of this report.

Do not continue placing and compacting fill if the moisture content of the fill soils is high enough to cause excessive rutting and subgrade instability. Careful control of the moisture content of fill soils will be needed. It may be necessary to spread fill soils in thin lifts allowing them to dry to an adequate moisture content that will allow for construction of stable fill embankments. Drying of fill soils can be expedited by

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scarifying the soils. It may be necessary to scarify unstable, wet soils several times a day for several days.

#### Reuse of Onsite Soils

In general the non-organic onsite soils are considered suitable for reuse as fill for the project. However, soils removed as EBS are recommended to be wasted offsite.

Some of the collected soil samples were at an elevated moisture content. Therefore, some drying of onsite soils should be expected prior to their reuse as fill. It may be necessary to scarify and dry the onsite soils prior to their reuse as fill on the project. It may be necessary to scarify onsite soils several times a day for several days in a row to allow enough time for them dry to within a reasonable moisture content to be used as fill.

#### Earthwork Summary Table

The Earthwork Summary Table in the Miscellaneous Quantities section of the project plans must be in accordance with WisDOT's latest requirements.

EBS will be needed on this project in isolated areas of highly unstable soils. The material removed from EBS areas is recommended to be wasted offsite. Any EBS areas are recommended to be backfilled with Breaker Run, Pit Run or Granular Backfill. The expand the fill factor for the various EBS backfill options is listed in the following table.

Expanded the Fill EBS Factor			
Backfill Type	Expansion Factor		
Breaker Run	1.0		
Pit Run Sand and Gravel	1.1		
Grade 1 or 2 Granular Backfill	1.2		

Since the EBS soil is recommended to be wasted and not reused as fill a Reduced EBS in Fill factor is not needed and not provided.

It is sometimes preferred to pay for items such as Breaker Run, Pit Run Sand and Gravel and Granular Backfill by the ton rather than by the cubic yard. Therefore, if desired, multiply the estimated volumes in cubic yards by a factor of 1.75 to determine the quantity of material needed in tons.

An expand the fill factor needs to be applied to all common excavation material that can be reused as fill. The following table lists the Expand the Fill factor that should be used.

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Expanded Fill Factor			
Material Type	Expansion Factor		
Common Excavation	1.2		

#### Subgrade Protection/Drainage

Water should not be allowed to accumulate on the exposed subgrade during construction. Standing water along with the accumulation of soft soils is recommended to be removed as quickly as possible from the exposed subgrade surface.

During construction, maintain roadway, ditches, and channels in a well-drained condition at all times by keeping the excavation areas and embankments sloped to the approximate section of the ultimate earth grade. It may be necessary to construct temporary drainage channels to prevent the accumulation of water on the proposed subgrade.

Maintain and protect any drainage structures such as draintile. Repair damaged draintile as soon as possible. If necessary relocate draintile to prevent water discharge directly onto the exposed subgrade surface.

The exposed subgrade is recommended to be sealed and graded for proper drainage with a smooth drum roller at the end of each workday or when the threat of inclement weather is imminent.

Heavy, rubber tired construction equipment is recommended to be restricted from the exposed subgrade soils immediately after heavy rainfalls. Exposure of heavy construction equipment to the wet subgrade soils will further deteriorate the subgrade, requiring further EBS. The subgrade soils should be given an adequate amount of time to dry prior the subgrade being subjected to heavy construction equipment. Drying could be expedited by scarifying wet subgrade soils.

#### Final Grade Preparation

The final roadway foundation grade is recommended to be prepared in accordance with Section 211 of the Standard Specifications. It is recommended that the finished subgrade be scarified to a depth of approximately 12 inches. All material greater than 6 inches in size is recommended to be removed from the finished subgrade. It is difficult to adequately compact soil that contains material larger than 6 inches. Material greater than 6 inches in size also has the potential to heave towards the subgrade surface during freezing weather causing distress to the overlying pavement. Recompact the scarified subgrade in accordance with standard compaction requirements.

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#### PAVEMENT DESIGN PARAMETERS

The following soil parameters were previously provided and are recommended to be used in design of the pavement structure. The parameters provided are in accordance with the WisDOT Pedological approach to Pavement Design outlined in the WisDOT *Geotechnical Bulletin No. 1*.

Pavement Design Parameters				
Design Group Index	Frost Index	Soil Support Value	Modulus of Subgrade Reaction (pounds per cubic inch)	
12	F-3	4.7*	475*	
*Based on Select N	Materials in Subgrade	2		

AASHTOWare	
Depth to Bedrock (if<20')	ı
AASHTO Soil Classification	A-6
Resilient Modulus	12,286
Max Dry Density	115
Specific Gravity	2.65
Optimum Moisture Content	15
Grain Size Distribution:	
#4	97
#10	95
#40	90
#200	76
Atterberg Limits:	
LL	32
PL	18
PI	14

### Appendix A

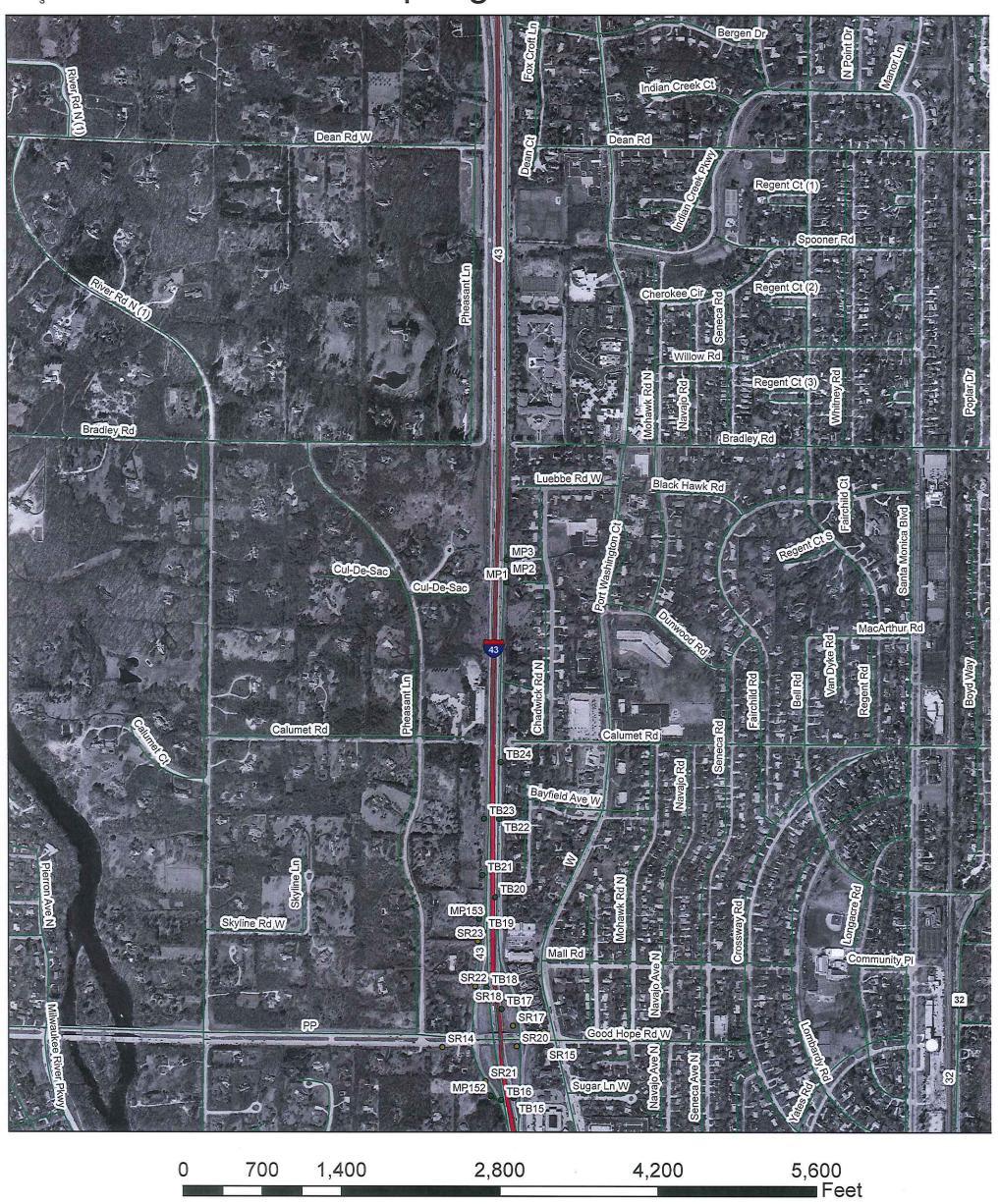
**Test Boring Location Plan** 



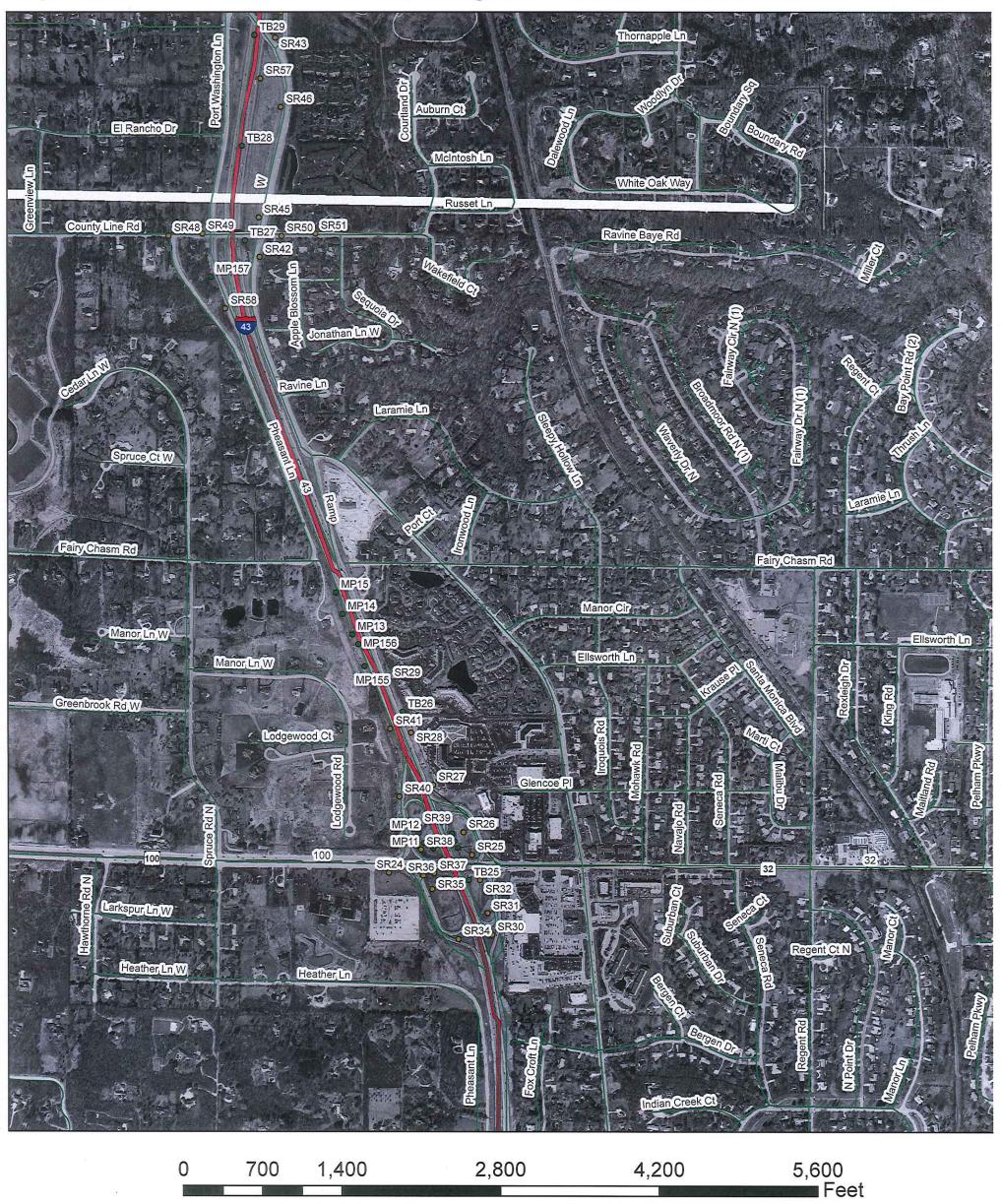
0



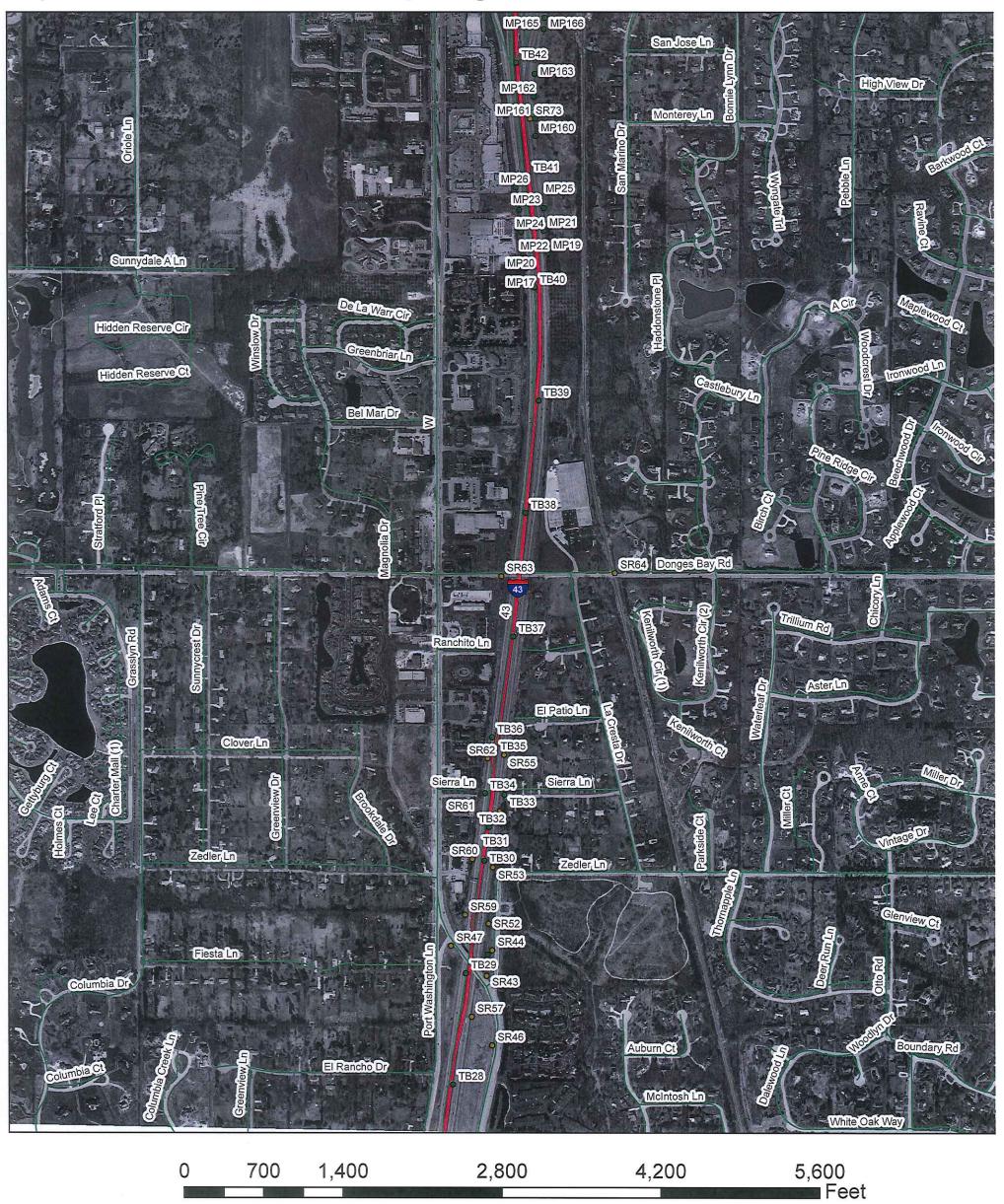




















2,800

4,200

700

0

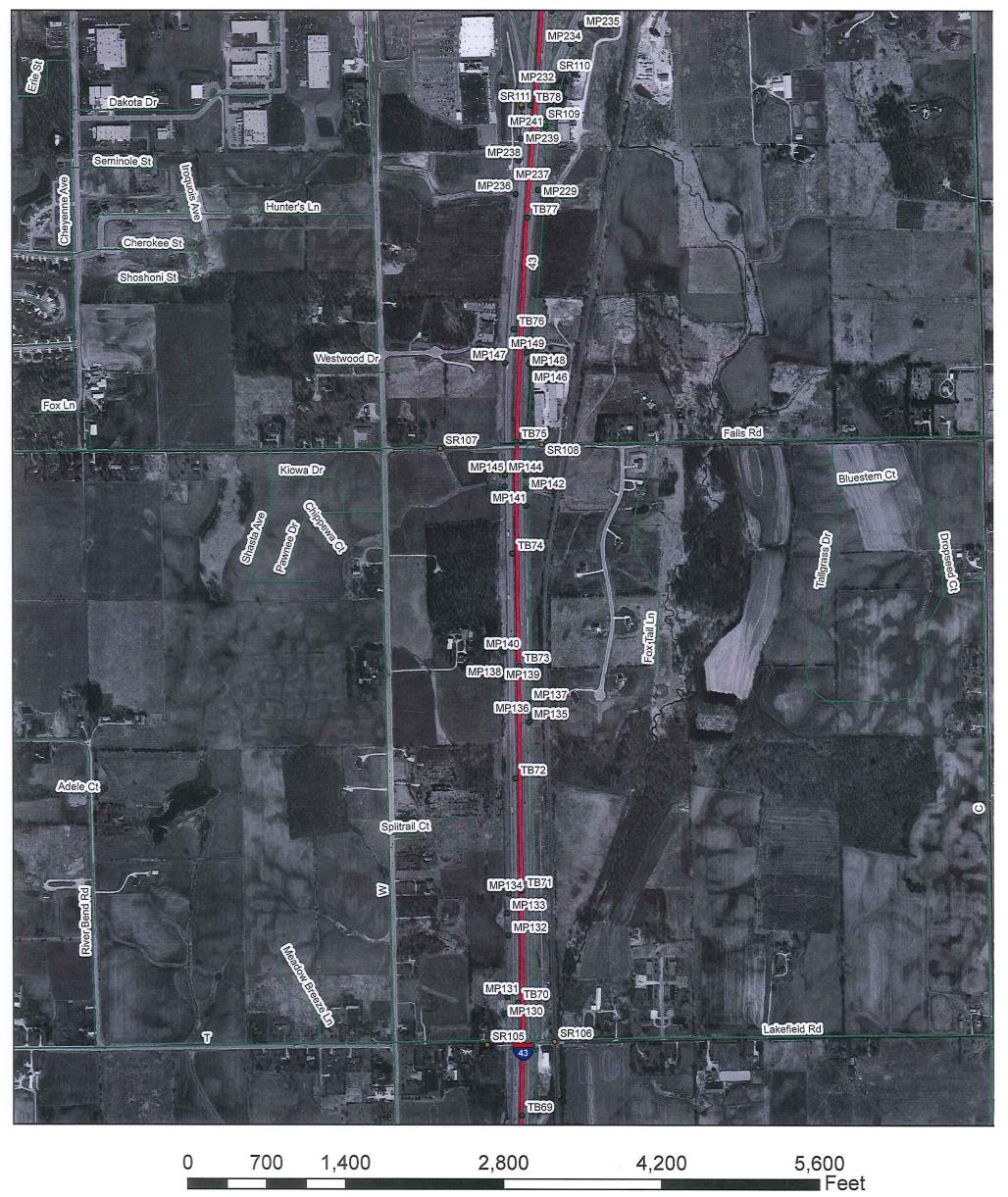
1,400

5,600 Feet



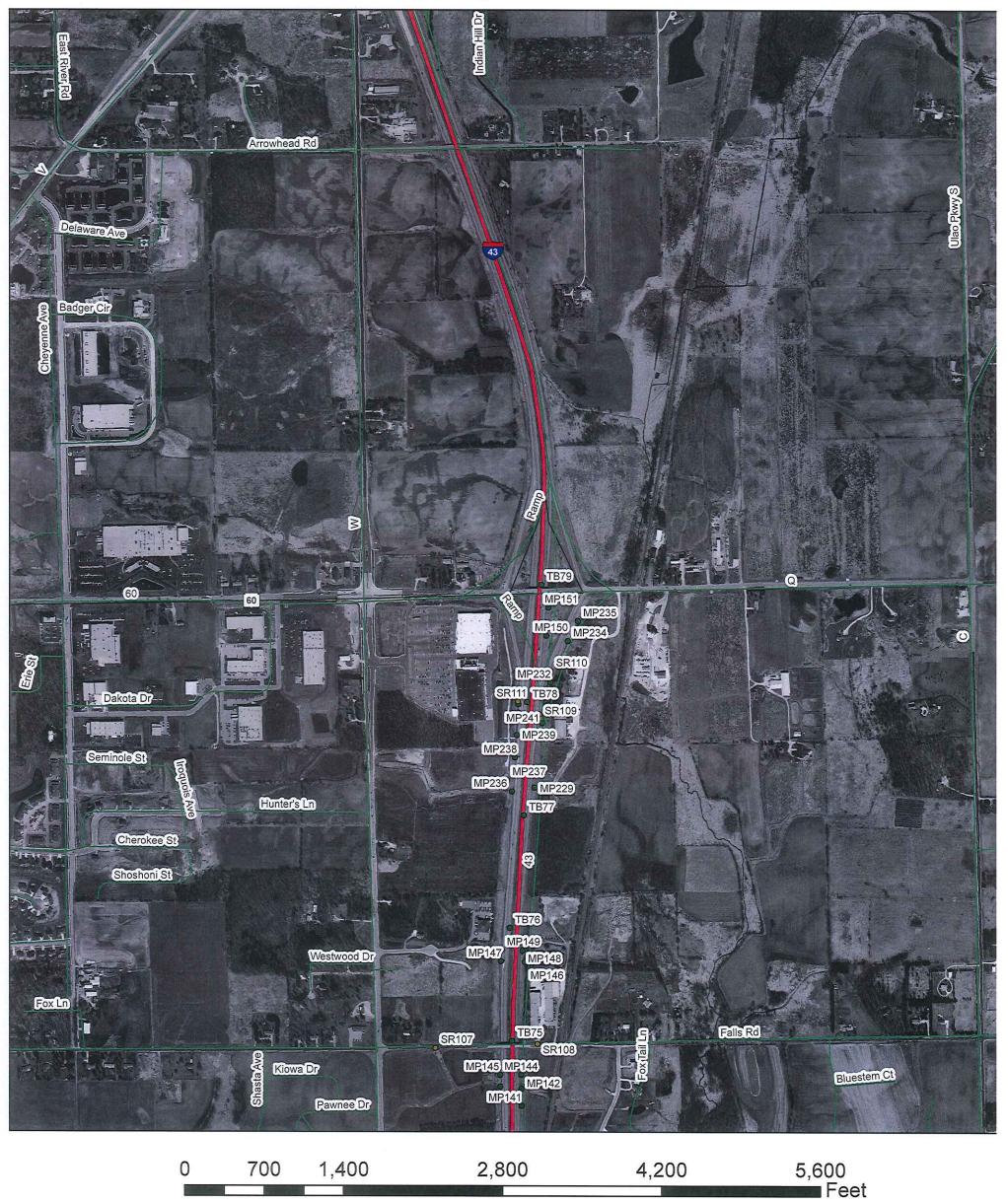








## I-43 (1229-04-01) Silverspring Dr to STH 60



## Appendix B

**Test Boring Logs** 

OEP.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	B29
MATINETA	OFTRANS	Mad	ison	, WI 53704	u. 1		WISDOT STRUCTURE ID:					AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR:	RVT	DRILLING CONTRACTOR PROJECT	ΓNO:		NORTHIN	3563	320.6°	74 E	ASTING: 602136.965
	TE STAR				9/04/	14	CREW CHIEF:	MD	DRILL RIG:			COORDIN				wccs
	TE COMP	LETED:			9/04/	14	OGGED BY:	RVT	HOLE SIZE:		4 in	HORIZON				ERTICAL DATUM:
	UNTY:				Ozauk	ee	.og QC BY: <b>C. Wierzch</b> o	wski	HAMMER TYPE:			TREAME			:	NA
STA	ATION 1	319+0	3NB	OFFSET	40'	Rt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECTIOI	l: S	URFACE	ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -	7 4 4 4 4 4 V	1.1								HSA	
	UGE BC	R 4	M 4				4" BASE COURSE 1.4			GW						
	SS 1	10	M 14	3-4-5-5 (9)	- 2 -		SILTY CLAY, brown, moist, vei	ry Sun			2.5					
	SS 2	12	M 19	3-3-4-6 (7)	- 4 -					CL	3.5					
					- 6 -											
11 OZAUKEE CO.GPJ 1-43 8/21/15	ı				- 7 -											
ODINTIESIOZAUKEEI-L431/229-04-01 -   1-43 - SILVERSPRING DR TO STH ØNGINTIZ28-04-01 (OZAUKEE CO.GP)   1-43 @27/15  ▼   Д     Д	SS 3	13	M 21	2-3-5-6 (8)	- 9 -		8.5 SILTY CLAY, grayish brown, m	noist, v	ery stiff	CL	3.0					
- 143	1	<u>[</u>		1	<del>10</del>	1//	End of Bo	ring at	10.0 ft.			1				1
29-04-01																
NI-43/122							WATER LEVEL & CA		N OBSERVATION DA	ATA						
ZAUKEE	_			DUNTERED			RILLING: NE	<u>≅</u>	CAVE - IN DEPTH AT C			NMR				WET DRY
ITIES/OZ	-			L AT COMP			NMR	<b>=</b>	CAVE - IN DEPTH AFTI			NMR				WET [ DRY [
Noonit No							resent the approximate boundary; gradu urement Recorded	ual trans	sition between in-situ soil layers	should be e	pected					

COMMUNITY   CONTROLLED NAME	Jep.	SCONSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PR	ROJECT ID:		1229-04-0	1			BOF		G IE	<b>)</b> :	B30
1.43	MATTHERS	OF TRANSPOR	Mad	ison	, WI 53704	u. L			TRUCTURE ID:										1 of 1
Notice   1772   1981	WIS	DOT PRO	DJECT NA	ME:		I-	43				CONSULTANT PROJECT NO	D:		L	ATITUDE	E:		Lo	ONGITUDE:
Mark   General Content   General	RO	ADWAY N	IAME:				С	RILLING CONTRACTO	OR:	RVT	DRILLING CONTRACTOR PR	ROJECT NO:		N	ORTHIN	ig: <b>3573</b>	313.5°	12 E	ASTING: <b>602260.782</b>
SCHIPTY   1/28/1940   1/28/1	DA	TE START	TED:			7/28/	'14	REW CHIEF:		MD				С	OORDIN	NATE SY	STEM:	•	
SS   11   M   SS   11   M   SS   14   M   SS   24   M   3.74-8   8   8   (11)   10.0	DA	TE COMP	LETED:			7/28/	′14 <sup>L</sup>	OGGED BY:		RVT	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
Solid Rock Description   Solid Rock Descript	CO	JNTY:				Ozauk	ee L	OG QC BY:	C. Wier	rzchowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	NA
AUGER 6 M 7 - 1	STA	TION 1	329+0	0SB	OFFSET	40'	Lt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		
SS   15 M   3-4-4-5     3-7-4-8   9		SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	eological (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   15 M   3-4-4-5   2   3   3-7-4-8   9   4.5								0.3 6.5" PCC										HSA	
SS   15 M   3-4-4-5 (8)		UGF	R ^	М		- - 1 -	• 📉	10.8 6" BASE C	OURSE				6111	1					
SS   15 M   3.4.4-5   2	$\parallel$	ВС	б			1							GW	1					
SS   15   M   3.4.4.5				11				SILTY CLA	AY, dark gray/b	orown, moist,	little sand & gravel, ha	rd							
SS 21 11 M 5-5-4-6 4 - 4 - 6 - 7 - 7 - 8 - 7 - 8 - 9 - 10.0 End of Boring at 10.0 ft.  SS 24 M 3-7-4-8 9			15	М				Very stiff						4.5					
SS 24 M 3-7-4-8 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LE				19															
SS 24 M 3-7-4-8 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NM		SS 2	11	M	5-5-4-6 (9)	-								3.75					
WATER LEVEL & CAVE-IN DESERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	OZAUKEE CO.GPJ   143 8/21/15					- 7-							CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY	43 - SILVERSPRING DR TO STH 60/GINT/1229-04-0	SS 3	24			- 9 - 10		10.0	End	of Boring of	10 O ff			4.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WATER	04-01 - 1-								Ena	of boiling at	10.0 IL.								
WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/1229-(							WATE	R LEVEL 8	& CAVE-II	N OBSERVATIOI	N DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	<u> </u>	ATER	ENCC	UNTERED	DURI	NG D						LETIC	N:	NMR				WET □ DRY □
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	ESIOZA	_	ATER	EVE	L AT COMF	PLETIO	N:	NMR			CAVE - IN DEPTH	AFTER 0	HOUR	RS:	NMR				WET DRY
ZUNE – NOLEDCOUNTERCUNINK = NO MEASUREMENT RECORDED.	NOOUNT									; gradual trans	sition between in-situ soil	layers should	d be exp	pected.					

S WISCONSIN ?	WI [	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID	):	B31
OFTRANS	Mad	ison,	WI 53704	и. 		WISDOT STRUCTURE ID:				AGE NO:				1 of '
	ROJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						ORILLING CONTRACTOR:		CT NO:		IORTHIN	3582	98.59	99	ASTING: <b>602432.83</b>
DATE STAF				9/04/	14	CREW CHIEF: MI				OORDIN				WCC
DATE COM	PLETED:			9/04/	14	OGGED BY:		4	in	IORIZON				ERTICAL DATUM:
COUNTY:				Ozauk	ee	.og QC BY:  C. Wierzchowsk	i HAMMER TYPE:			TREAMB			:	N.
STATION	1339+0	0NB	OFFSET	40'	Rt T	OWNSHIP: RANGE: SECTION	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA <sup>*</sup>	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					AAAAAA	4" HMA 0.3 8" PCC							HSA	<b>A</b>
AUGE BC	ER 5	M 4		- 1 ·		1.0 5" BASE COURSE 1.4		GW	_					
				- 2		SILTY CLAY, brown, moist, hard								
SS 1	10	M 17	7-5-5-7 (10)	- 3 -					4.5					
				+ 4 -				CL						
SS 2	12	M 17	4-5-5-8 (10)	- 5-					4.5					
				6	Y//	√6.0 End of Boring	at 6.0 ft.		1					
						WATER LEVEL & CAVE		ΔΤΔ						
						**************************************		// \ I / \						
<u></u>	/ATFR	FNCC	INTERED	ווםו וח	NG D				N.	NMP				WET [
_			UNTERED				CAVE - IN DEPTH AT	COMPLETIC		NMR NMR				WET [ DRY [ WET [ DRY [

WISDOT PRO ROADWAY N.  DATE START	Madi DJECT NA	ison,	sman Blvo , WI 53704			WISDOT	STRUCTURE ID:						l D/	AGE NO:	-			
ROADWAY N		ME:				ONOLII TANT			I OONOU II T	ANIT DDO IFOT NO.								1 of
	MIVIE.			I-4	3	ONSULTANT: RILLING CONTRAC	CTOD:			ANT PROJECT NO:  CONTRACTOR PROJE	CT NO:			ORTHIN				ONGITUDE: EASTING:
BATE OTALL	ED.					REW CHIEF:	JION.	RVT	DRILL RIG		-01 NO.			OORDIN	358	3407.	51	602375.18
DATE COMPL				7/28/1	4	OGGED BY:		MD	HOLE SIZI					ORIZON			Ιv	WCCS /ERTICAL DATUM:
COUNTY:				7/28/1	<b>4</b>	OG QC BY:		RVT	HAMMER			4	in			VATION		
STATION			OFFSET	Ozauke	T	OWNSHIP:	C. Wierz	SECTION:		1/4 SECTION:	1/4 1/4 SE	ECTION:	: SI	JRFACE	ELEVA	TION:		N/
1;	340+00	OSB		40' L	_t								$\Box$					
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	Rock Des eological C jor Unit / C	Origin fo	r nts		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						3.5" HMA	4										HSA	7
AUGER	R 6	M		- 1		1.5	COURSE	v mattled in	noist trac	re sand & gravel		GW	_					
SS 1	11	M 23	4-4-4 (8)	- 2		hard  Very stiff						CL	4.5					
SS 2	16	M 19	3-5-4-5 (9)	- 4		5.5							2.5					
	<u> </u>			ı k	/_/	10.0	End	of Boring at	5.5 ft.				1					1
						WATE	ER LEVEL &		OBS	ERVATION [	DATA							
_			UNTERED				NE			- IN DEPTH AT				NMR				WET [ DRY [
			L AT COMF			NMR	oximate boundary; g			- IN DEPTH AF				NMR				WET [ DRY [

, DEF	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WIS	DOT PRO	JECT ID:			1229-04-01					RIN	G II	<b>)</b> :	B33
MATTHER	OFTRANS	Mad	ison	, WI 53704	u. 1			DOT STRI	UCTURE ID:							AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:					TANT PROJECT NO:				ATITUD				ONGITUDE:
RO	ADWAY N	NAME:				0	RILLING CONT	RACTOR	t:	RVT	DRILLIN	G CONTRACTOR PROJ	ECT NO:		N	IORTHIN	ig: <b>3585</b>	95.7	83 E	ASTING: <b>602473.847</b>
DA	TE STAR	TED:			9/04/	/ <b>14</b>	REW CHIEF:			MD	DRILL R	G:			C	OORDIN	NATE SY	STEM:	·	wccs
DA	TE COMP	LETED:			9/04/	L	OGGED BY:			RVT	HOLE SI	ZE:		4	in ⊢	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	L	OG QC BY:		C. Wi	erzchowski	HAMME	R TYPE:				TREAME	BED ELE	VATION	:	NA
ST	ATION 1	342+0	0NB	OFFSET	40'	Т	OWNSHIP:	RA	ANGE:	SECTION:	1	1/4 SECTION:	1/4 1/4 5	SECTION	: S	URFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and	I / Rock Des Geological ( Major Unit / (	Origin f	or		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						P 4	0.3 3.5" F												HSA	
						4 A	7.5" F 0.9	<i>.</i>												
L	41105					4 A	0.9	SE COI	LIDEE						-					
1	AUGE BC	5	M 6		'		1.3	SE COI	URSE					GW						
			17				SILTY	CLAY,	, brown, m	oist, trace sar	nd, stiff									
$\backslash$																				
W	SS			2-3-4-4	- 2 -	1//														
١À	1	8	М	(7)											2.0					
I/																				
- / '					- 3 -	1//														
H	}		40				Very	stiff												
١.			19				,,													
$\mathbb{N}$					- 4 -															
١V	SS 2	15	М	3-4-5-5 (9)											2.5					
I۸	2			(9)																
					<u> </u>															
														CL						
							1							CL						
					6	1//	1													
							1													
1/15							1													
43 8/2					7 -	1//	1													
GPJ.							1													
XEE O							1													
01 OZAL					<del> </del> 8 -	1//	(A-6)													
229-04-(							(,,,,													
VGINT							1													
STH 60	ss	8	M	4-5-6-7	- 9 -		1								2.2	30	16			
3 R	3		19	(11)			1													
SPRIN							1													
- SILVE					10		10.0													
DOUNTIESIOZAUKEE  43/1229-04-01 - 143 - SILVERSPRING DR TO STH 80/GINTY1229-04-01 OZAUKEE CO.GPJ   43 82/115					10				En	d of Boring at	10.0 ft.									
3/1229-04							\/\/ 4	TFR	IFVFI	& CAVE-I	N ORS	SERVATION I	DATA							
Z KENT	Z w	ATER	ENCC	DUNTERED	DURII	NG D		NE	V L_L	& CAVE-I	1	E - IN DEPTH AT		LETIC	DN:	NMR				WET  DRY
SYOZAU				L AT COMP			NMR					E - IN DEPTH AF				NMR				WET DRY
N N	OTES: 1								ate boundar	ry; gradual tran	sition bet	ween in-situ soil lay	ers shoul	d be ex	pected.					
ž L	2	2) NE = 1	vot En	countered; NI	ик = No	Meas	urement Red	corded												

OEP.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PR	OJECT ID:		1229-04-0	1			BOF		G IE	):	B34
HTMER	OF TRANSPOR	Mad	ison	, WI 53704				RUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:			CONSULTANT PROJECT NO				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTO	PR:	RVT	DRILLING CONTRACTOR PI	ROJECT NO:			ORTHIN	3589	902.8°	15	ASTING: <b>602443.53</b> 9
	TE STAR				7/28/	14	CREW CHIEF:		MD	DRILL RIG:				OORDIN				wccs
DA	TE COMP	LETED:			7/28/	14	OGGED BY:		RVT	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:		chowski	HAMMER TYPE:				TREAMB			:	NA
STA	TION 1	345+0	0SB	OFFSET	40'	Lt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		
	SAMPLE 1 YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	Rock Des ological ( or Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							6.5" HMA										HSA	\
							0.5	NIBOE										
					- 1 -		9" BASE CO	DURSE				GW						
							✓ SILTY CLA`	Y, brown to gra	y/brown, m	oist, trace sand & grav	el,		1					
	SS 1	14	M 13	3-5-2-7 (7)	- 2 -		very stiff  Hard						3.0					
					- - 4 -		1											
	SS 2	12	M	5-5-4-8 (9)	- 5-							CL	4.5					
+01 OZAUKEE CO.GPJ 1-43 8/21/15					- 6 - - 7 -		Very stiff											
COUNTIESIOZALIKEEI-L4311229-04-01 - I-43 - SILVERSPRING DR TO STH ØNGINTIZ28-04-01 (OZALIKEE CO.GPJ 1-43 92/115	SS 3	22	M 17	3-5-4-5 (9)	- 9 -		10.0						2.25					
01-143					10			End o	f Boring at	10.0 ft.								<u> </u>
1229-04-							\A/A T.	)   E\/E'   ^	CA\/= ::	N ODGEDVATIO	N D 4 T 4							
ZEE/143/	7 \ \	ATED	ENICO	א ואדבטבי	י רו וריי	NC D				OBSERVATIO			NI:	NIN AL				WET I
SYOZAUKEE				DUNTERED						CAVE IN DEPTH				NMR				WET DRY DRY DRY DRY
NATES:				L AT COMF			NMR resent the approxin	nate houndary: o	aradual trans	CAVE - IN DEPTH				NMR				DRY 🗀
1 N							urement Recorded		, adda ii al k		. 4, 01 3 31100	J JC CX						

March   Mar	B0 /4	GCONSIN.	WI [	Dept.	of Trans	portati	on	WIS	SDOT PROJECT ID:		12	229-04-01				ВОЕ	RIN	G II	<b>D</b> :	B35
143	PARTMERS	OF TRANSPOR	Mad	lison	sman Br , WI 5370	va. 14				ID:										1 of 1
PRYT   Mode				ME:		Į-	43													
T72814									TRACTOR:	RVT		ONTRACTOR PROJ	ECT NO:				3592		91 E	ASTING: <b>602537.85</b>
County   T78814   Water encountered during discussion   St.   Water Level. & CAVE.   No Description   St.   Water Level. & CAVE.   No Description   St.   St.   Water Level. & CAVE.   No Description   St.   St						7/28/	14			MD										wccs
SS   9   M   3-4-2-4     SS   15   M   4-6-5.7     SS   15   M   4-6-5.7     SS   15   M   4-6-5.7     SS   M	DAT	E COMP	LETED:			7/28/	14	LOGGED BY:		RVT	HOLE SIZE:			4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
1499-9058	COL	JNTY:				Ozauk	ee		C. \	Wierzchowski	HAMMER TY	PE:			S	TREAME	BED ELE	VATION	l:	NA
### THAMA    1	STA	TION 1	349+0	0SB	OFFSET	40'	Lt	TOWNSHIP:	RANGE:	SECTION:	1	/4 SECTION:	1/4 1/4 SEC	TION:	SI	URFACE	ELEVA	TION:		
0.6 8*BASE COURSE  1.3 SLTY CLAY, brown, moiet, trace sand & gravet, hard  2		NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		an	nd Geological (	Origin for	s		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 15 M 4-6-5-7 CL  SS 15 M 4-6-5-7 (11)  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPL						- 1		0.6 8" BA	ASE COURSE	, moist, trace san	d & gravel,	hard		GW					HSA	
SS 15 M 4-6-5-7 (11)  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE AVE-IN DEPTH AT COMPLETION: NMR NET PRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.			9		3-4-2-4 (6)									CL	4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			15					5.5							4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	۲		1		1	l	1//	/ JU.U		End of Boring at	t 5.5 ft.				1	-			-	1
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																				
WATER LEVEL & CAVE-IN OBSERVATION DATA   ☐ WATER ENCOUNTERED DURING DRILLING: NE ☐ CAVE - IN DEPTH AT COMPLETION: NMR ☐ WATER LEVEL AT COMPLETION: NMR ☐ WATER LEVEL AT COMPLETION: NMR ☐ WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																				
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY								WA	ATER LEVE	EL & CAVE-II	N OBSE	RVATION I	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bar{\Delta}$	7 W	ATER	ENCC	DUNTERE	D DURI	NG [	DRILLING:	NE	Ŕ	CAVE -	IN DEPTH AT	Γ COMPLE	TIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bar{A}$		ATER	LEVE	L AT COM	IPLETIC	N:	NMR		I.	CAVE -	IN DEPTH AF	TER 0 HC	DUR	S:	NMR				WET DRY
THE PROPERTY OF THE PROPERTY O	NC	OTES: 1	) Stratifi	cation	lines betwee	en soil typ	es rej	oresent the a	pproximate boun	ndary; gradual trans	sition betwee	en in-situ soil lay	ers should b	е ехр	pected.					

March   Marc	. DEF	SCONSIN B	WI [	Dept.	of Transp	ortatio	on	WISDOT PRO	JECT ID:		1229-04-01					RIN	G II	): 	B36
Marie   Mari	MATHER	OFTRANS	Mad	ison	, WI 53704	u. 			UCTURE ID:										1 of 1
RYT   MO				ME:		l-	43												
T78914									: R	VT		CT NO:				359		12	ASTING: 602511.897
Country   T/28/14						7/28/	14		ı	MD									wccs
SS   24   M   4-6-5-7   9	DA <sup>*</sup>	TE COMP	LETED:			7/28/	14	OGGED BY:	R	VT	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
1 350-0058B						Ozauk	ee		C. Wierzchow	ski								l:	NA.
7' HMA  0.5 5' BASE COURSE 1.0 SILTY CLAY, brown, moist, trace sand & gravet, very stiff  SS 2 21 M 6-9-6-11 4  1 SS 2 21 M 6-9-6-11 A  1 SS 2 21 M 7 SS 2 21 M 7 SS 2 21 M S	STA	ATION <b>1</b>	350+0	0SB	OFFSET	40'	Lt T	OWNSHIP: R	ANGE: SECTI	ON:	1/4 SECTION:	1/4 1/4 S	SECTION	: S	URFACE	ELEVA	TION:		
1		SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geologic	al (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders		
SS 15 M 1-4-2-5 - 2								7" HMA										HSA	\
SS   15   M   1-4-2-5   2								0.6											
SS   15    M   1-42-5									URSE				GW						
1						+ 1 -		SILTY CLAY	brown, moist, trace	san	d & gravel, very stiff								
1	1\ /																		
1	IV	99		M	1_/1_2_5														
Very stiff    SS   24   M   4-6-5-7   9	ΙX		15		(6)	- 2 -								3.25					
Very stiff    SS   24   M   4-6-5-7   9	I/																		
Very stiff    SS   24   M   4-6-5-7   9	/ \																		
SS   21   M   6-9-6-11   4	$\vdash$	}				<del> </del> 3 -		Hard											
CL  Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR OR	1							, nara											
CL  Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR OR	$\mathbb{N}$																		
SS 24 M 4-6-5-7 9 Send of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR ONTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situs oil layers should be expected.	IV	ss	21		6-9-6-11	4 -								4 5					
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-stul soil layers should be expected.	$\Lambda$	2		17	(15)	-								1.0					
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-stul soil layers should be expected.	1/\																		
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-stul soil layers should be expected.	/ \	V																	
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER RECOUNTERED DURING DRILLING: NE CAVE-IN OBSERVATION: NMR ORK:  WATER LEVEL AT COMPLETION: NMR ORK:  NOTES: 1) Stratification ines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		1				<del> </del> 5-													
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER SECULATION DATA  WET DRY  WATER SECULATION DATA  WATER S													CL						
Very stiff  SS 24 M 4-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER SECULATION DATA  WET DRY  WATER SECULATION DATA  WATER S																			
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WET WATER LEVEL AT COMPLETION: NMR						- 6 -													
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL ACOMPLETION: NMR  WET WATER LEVEL AT COMPLETION: NMR  WET WATER LEVEL AT COMPLETION: NMR WET																			
Very stiff    SS   24   M   4-6-5-7   9																			
SS 24 M 4-6-5-7 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA   WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR DRY  WATER LEVEL AT COMPLETION: NMR CAVE-IN DEPTH AT	8/21/16					- 7 -													
Very stiff    SS   24   M   4-6-5-7   9	<u>5</u>																		
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	E 00.6																		
Very stiff    SS   24   M   4-6-5-7   9   10.0   End of Boring at 10.0 ft.	ZAUKE																		
SS 3 24 M 4-6-5-7 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	04-010					$\top$ ° $\overline{}$		Very stiff											
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	VT/1229																		
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	H 60/G	99		M	1-6-5-7														
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LONG  CAVE - IN DEPTH AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WET LONG  WET LONG  WATER LEVEL AT COMPLETION: NMR  WET LONG  WET	71081	3	24			- 9 -								3.75					
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA   WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	RINGD																		
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WET LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓	LVERSF																		
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WET CAVE - IN DEPTH AFTER 0 HOURS: N	- F43	1				10		J10.0	End of Borin	g at	10.0 ft.							<u> </u>	
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WET CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL	9-04-01																		
WATER ENCOUNTERED DURING DRILLING: NE	43/122							WATER	LEVEL & CAV	E-I	N OBSERVATION D	DATA							
▼ WATER LEVEL AT COMPLETION: NMR	Z AUKEE)	$\mathbb{Z} \left[ \mathbf{w} \right]$	ATER	ENCC	DUNTERED	DURIN	NG D	RILLING: NE			CAVE - IN DEPTH AT	COMP	LETIC	ON:	NMR				WET ☐ DRY ☐
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	TESYOZ.	Z W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		Ē	CAVE - IN DEPTH AF	TER 0	HOUF	RS:	NMR				WET DRY
	NOON								ate boundary; gradual	tran	sition between in-situ soil laye	rs should	d be ex	pected.					

OEPA.	SCONSIN.	WI [	Dept. 2 Kin	of Trans sman Blv	portati /d.	ion	WISDO	T PROJECT ID:	1229-04-0	1				G ID	):	B37
ATTACK!	OF TRANSPOR	Mad	lison	, WI 5370	4			T STRUCTURE ID:	CONCILITANT DECISES IN	٦.		AGE NO			Ti -	1 of 1
	DOT PRO	DJECT NA	NVIE:		Į.	-43	CONSULTANT:  DRILLING CONTRA	ACTOR-	CONSULTANT PROJECT NO DRILLING CONTRACTOR PR			ATITUDI				ONGITUDE:  ASTING:
	E STAR						CREW CHIEF:	RVT	DRILL RIG:	ROJECT NO.		OORDIN	360	)279.8	2	602706.265
	E COMP				9/04/	/14	LOGGED BY:	MD	HOLE SIZE:			IORIZON			V	WCCS ERTICAL DATUM:
	JNTY:				9/04/	/14	LOG QC BY:	RVT	HAMMER TYPE:	4	in			VATION:		
	TION			OFFSET	Ozauk	(ee	TOWNSHIP:	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
	1	359+0	ONB		40'	Rt										
בי בי איני בי	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
							4.5" HM	Α							HSA	
						0 A	8" PCC									
					1	A 4	ੀ ਨੂੰ 1.0									
4	UGE BC	R 6	M 5				5.5" BAS	SE COURSE		GW						
								CLAY, brown/grayish brown, i	noist, trace sand, very s	stiff						
$\backslash /$					- 2	1/										
V	SS		M	3-4-5-5												
λ	1	14	17	(9)							4.0					
$/ \setminus$					- 3											
$/\setminus$																
							Hard									
M					- 4	1//										
$\mathbb{V}$	SS		M	3-4-5-6												
٨	2	15	17	3-4-5-6 (9)							4.5					
$\mathbb{N}$					- 5-	1//										
$  \rangle$																
										CL						
					- 6	1/										
					- 7	1//										
					8	<b>{</b> //	Very stif	ff								
$\backslash /$							/ 23., 54									
$\bigvee$																
X	SS 3	18	M 20	3-3-4-5 (7)	- 9	1//					3.0					
	J			(,,												
$/\setminus$																
$\vdash$					10	<u>Y</u> Z	10.0	End of Boring a	10.0 ft.							
L	,							ER LEVEL & CAVE-								
7	_			DUNTERE				NE 🖺				NMR				WET DRY WET TO
7				L AT COM			NMR	- rayimata baundan <i>ı</i> ; gradual tran				NMR				WET  DRY
NC							present the appro surement Record	oximate boundary; gradual trar ded	Silion between in-situ soil	iayers snould be exp	ected.					

· 0ED	GCONSIN.	WI [	Dept.	of Transp Isman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	D:	B38
ATTMENT	OF TRANS	Mad	lison	, WI 53704	ŭ. Į		WISDOT STRUCTURE ID:		CONCLUTANT PRO STATE NO				AGE NO				1 of 1
		DJECT NA	MÉ:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:	CT NO			ATITUD				ONGITUDE:
	DWAYN						ORILLING CONTRACTOR:	T	DRILLING CONTRACTOR PROJE  DRILL RIG:	CINO:			IORTHIN	IG: 3613 NATE SY	375.7	93	EASTING: <b>602825.219</b>
	E STAR				11/14/	14	CREW CHIEF:  MI  OGGED BY:	ID	HOLE SIZE:					TAL DA		- Ix	WCCS
	JNTY:	LETED:			11/14/	14	OG QC BY:	Τ	HAMMER TYPE:		4	in		BED ELE			PERTICAL DATOM.
	TION			OFFSET	Ozauk	ee	C. Wierzchowsk  OWNSHIP: RANGE: SECTION	ki N:	1/4 SECTION:	1/4 1/4 SE	ECTION			ELEVA		ν.	NA
	2	010+0	0SB	CITOLI		0	OWNORM:		174 GEOTION.	114 114 01		·   ~	T	I	T	_	T
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	il C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 17	3-6-7-7 (13)	- 1 -		2" TOPSOIL  SILTY CLAY, brown, moist, trace fill FILL, very stiff	ine	sand & gravel, POSSIBLE		CL	4.0				HSA	A.
OT THE SECTION THE SECTION TO SEC	SS 2	16	M 16	5-12-14-13 (26)	3 - 3 - 4 -		5.0 End of Boring	ı at	5.0 ft.				34	19			
_	7						WATER LEVEL & CAVE										LAZETTE T
7	_			DUNTERED				_	CAVE - IN DEPTH AT				NMR				WET DRY
7				L AT COMF					CAVE - IN DEPTH AF				NMR				WET _ DRY _
L							resent the approximate boundary; gradual tra urement Recorded	ans	เนอก petween in-situ soli laye	ıs snould	ve ex	vected					

OEF	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	B39
MATTHERS	OF TRANSPOR	Mad	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:				D	PRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3623	366.7	)9 E	ASTING: <b>602950.5</b> 4
DAT	TE STAR	ΓED:			11/11/	14 C	CREW CHIEF:	MD	DRILL RIG:			C	OORDIN	NATE SY	STEM:		wccs
DAT	TE COMP	LETED:			11/11/	14	OGGED BY:	AET	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COI	JNTY:				Ozauk	ee	og QC BY:  C. Wierzcho	owski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	NA
STA	TION 2	020+0	0NB	OFFSET		0	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	s	URFACE	ELEVA	TION:		
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolo Each Major I	gical (	Origin for		USCS / AASHTO	Strength Op (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					<u> </u>		4" TOPSOIL 0.3 SILTY CLAY, brown, moist, tra	ace sar	d & gravel, very stiff							HSA	
	SS 1	12	M 21	2-3-4-6 (7)	- 2 -							2.5					
	SS 2	24	M 18	5-8-10-13 (18)	5 - 4 -							3.75					
OZAUKEE CO.GPJ 143 921/16					- 6 -						CL						
DOUNTESOZAUKEEL43/1229-04-01 - 143 - SILVEKSPRING DR TO STH ØNGINNTZ28-04-01 OZAUKEE OD GPJ 143 82/1/5	SS 3	24	M 13	6-9-16-16 (25)			Moist, with sand lenses, stiff					2.0					
-01-143					10		End of Bo	oring at	10.0 ft.								
1229-04							WATER LEVEL & CA	\\/E !	N ORSEDVATION D	) A T A							
Z KEN143;	7 \ \	ΔΤΕΡ	FNC	DUNTERED	יוםו וח נ	NG D		VE-I	CAVE - IN DEPTH AT		I FTIC	N·	9.9ft.				WET DRY
Siozauk				L AT COMF			NMR	<b>■</b>	CAVE - IN DEPTH AT				9.9IL. NMR				DRY C WET C DRY C
NO NO	·						resent the approximate boundary; gradi	ual tran									DRY [
8							urement Recorded			50.0							

OEPA.	NSW. 30E	3502	)ept. 2 Kin	of Trans	portation	on	WISDOT PROJECT ID	l:	1229-04-01					G ID	):	B40
MINOF	TRANSO TO DO	Mad DJECT NA	ison	, WI 5370	4		WISDOT STRUCTURI	E ID:	CONSULTANT PROJECT NO:			AGE NO:			li z	1 of 1
			ME:		l-	43				IFOT NO.						
	WAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJ DRILL RIG:	JECT NO:		ORTHIN	3633	869.82	9   -	ASTING: 602900.241
	START	LETED:			11/14/	14	OGGED BY:	MD	HOLE SIZE:			ORIZON			I VI	WCCS
COUN					11/14/	14	OG QC BY:	AET	HAMMER TYPE:	4	in			VATION:		
STATI	ION			OFFSET	Ozauk	ee	C. OWNSHIP: RANGE:	Wierzchowski SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
		030+0	0SB		25'	<u>Lt  </u>										
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	a	Soil / Rock Des nd Geological ( ch Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5" HMA 0.4 10" PCC							ŀ	HSA	
					+ 1 -	7 A	1.3									
$\backslash / $							SILTY CLAY, brow	n, moist, trace grav	el, POSSIBLE FILL, hard							
V	SS	10	M	16-12-10	-						4.5					
$ \Lambda $	1	12	10	12 (22)	- 2 -						4.5					
$/\!\!\!/$																
1										CL						
$\backslash / \mid$																
Ŋ	SS 2	12	M 18	5-9-14-18	3 - 4 -						4.5					
$ \Lambda $	2		10	(23)												
$/\setminus$																
\					- 5-	1	5.0 SILTY CLAY, gray/	brown mottled, mo	ist, trace sand & gravel,							
							very stiff		, ,							
					- 6 -											
					- 7 -											
										CL						
					+ 8 -	1//	]									
$\setminus / \mid$																
	SS	6	M	6-8-9-11	- 9 -						2.75					
[ [ ]	3		28	(17)			1				د،،ی					
$/ \setminus$																
					10		10.0	E. J. (D. d )	40.0 %							
								End of Boring at	10.0 π.							
							WATER LEV	EL & CAVE-II	N OBSERVATION	DATA						
Ţ	W	ATER	ENC	OUNTERE	DURII	NG D	RILLING: NE	<u>R</u>	CAVE - IN DEPTH A	T COMPLETIO	N:	NMR				WET DRY
Ā	WA	ATER	LEVE	L AT COM	PLETIO	N:	NMR	Ī	CAVE - IN DEPTH A	FTER 0 HOUR	S:	NMR				WET  DRY
NO7							resent the approximate bou urement Recorded	ındary; gradual trans	sition between in-situ soil lay	ers should be exp	ected.					

OED.	GCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	B41
ATTMENT	OF TRANSPOR	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:	Lookou Takit Doo i			AGE NO				1 of 1
		DJECT NA	WE:		Į-	43	CONSULTANT:	CONSULTANT PROJECT NO:	NT NO:		ATITUDE				ONGITUDE:
	DWAY N						PRILLING CONTRACTOR:  AET  CREW CHIEF:	DRILLING CONTRACTOR PROJECT	ı NU:		OORDIN	36	64365	5.6	EASTING: 602905.005
	E START				11/11/	14	OGGED BY:	HOLE SIZE:			IORIZON			Įv.	WCCS
	JNTY:	LLILD.			11/11/	14	OG QC BY:	HAMMER TYPE:	4	in	TREAME				PERTICAL DATON.
	TION			OFFSET	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
Ë	2	<u>040+0</u>	0NB		25'	Rt					T			ı -	T
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							5.5" HMA							HSA	A .
					<b>+</b> 1 -	V by V by V by V by V	1.2			-					
	SS 1	14	M 4	9-11-6-5 (17)	- 2 -		medium dense, slight petro odor		SP						
THIS OFF O OTHER OFFICE	SS 2	12	M 17	5-7-11-11 (18)			SILTY CLAY, dark brown, moist, trac very stiff  5.0		CL	3.5					
					5		End of Boring a	5.0 ft.							
2															
							WATER LEVEL & CAVE-I	N ORSERVATION D	ΔΤΔ						
$\overline{\Delta}$	7 W	ATFR	ENC	DUNTERED	DURII	NG D		CAVE - IN DEPTH AT		N.	4.8ft.				WET DRY
<u>7</u>				L AT COMF			NMR <b>I</b>	CAVE - IN DEPTH AFT			NMR				DRY  WET  DRY
=	OTES: 1	) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual tran	L							ן זאט
							urement Recorded	•	<u> </u>						

OEM.	ONSIN. 30	WI [	ept.	of Trans sman Blv	portatio	on	WISDOT PROJECT ID:	1229-04-01	_			RING	G ID	:	B42
TANCE OF	TRANSPOR	Mad	ison	, WI 5370	14		WISDOT STRUCTURE ID:	CONCULTANT DOO 1507 VO			GE NO:			li e	1 of 1
	OT PRO	DJECT NA	uviE:		l-	43	CONSULTANT:  ORILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJEC	T NO:		TITUDE:				NGITUDE:
							AET		I NO:			<u> 3653</u>	75.79	9	602764.667
	STAR	LETED:			1/22/	15	CREW CHIEF: MD OGGED BY:	DRILL RIG: HOLE SIZE:			ORDINA			IVE	WCCS
COUN		LLTED.			1/20/	15	OG QC BY:	HAMMER TYPE:	4 in				VATION:		INTOAL DATOW.
STAT	ION			OFFSET	Ozauk	<b>96</b>	C. Wierzchowski OWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION:		RFACE I				NA
	2	050+1	1SB		20'	<u>Lt  </u>				1					
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -		12" TOPSOIL  1.0  SILTY CLAY, gray/brown mottled, mo	ist, trace fine roots, stiff					F	ISA	
	SS 1	12	M 19	3-4-3-5 (7)	- 2 -				1.	75					
	SS 2	24	M 29	3-2-2-3 (4)	- 4 -		Medium		0.	75					
/ \					- 6 -				CL						
					- 7 -										
	SS 3	14	M 19	2-4-3-6 (7)			No roots, very stiff		2.	75					
		1		ı	<del>- ' 10 -</del>	//	End of Boring at	10.0 ft.							
							MATERIEVE A CAVE	U ODOEDWATION D	A T A						
$\overline{\nabla}$	\\\	۸۲۵۵	ENICO	OUNTERE	ע טו וטיי	1G D	WATER LEVEL & CAVE-II RILLING: NE	CAVE - IN DEPTH AT C			NMR				WET □
<u>▼</u>	+			L AT COM			NMR E	CAVE - IN DEPTH AT C			IMR				WET  DRY  WET  DRY  DRY
_							resent the approximate boundary; gradual trans				NIVIT\				DRY 🗆
NO							resent the approximate boundary; gradual trans urement Recorded	nuon between in-situ soli läyers	sanoulu be expect	eu.					

OCCUMENTED	, DED	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE	):	B43
1.4	MATINEZ	OFTRANS	Mad	ison													1 of 1
AFT				ME:		l-	43										
1111114									AET		ΓNO:			3663		12 E	ASTING: 602814.433
Signature   State						11/11/	14		MD								wccs
SS   14   M			LETED:			11/11/	14		AET		4	in					'ERTICAL DATUM:
SS   14   M   4-4-6-8   4   100   5   100   10						Ozauk	ee	C. Wierzcho	wski								NA
SS   6   M   8-3-3-5   2	STA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	060+0	0NB	OFFSET	10'	Lt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION: 1	1/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		
SS   6   M   8-3-3-5   2		SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolog	ical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
1						- 1 -		0.4 9" PCC	ace sa	nd, POSSIBLE FILL, stiff						HSA	
Very suit  SS 14 M 19 4.4-6-8 4 3.0 SILTY CLAY, brown mottled, moist, trace sand, very stiff  CL  SS 16 M 3-3-5-8 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NIMR  WATER LEVEL AT COMPLETION: 9.9ft. OR SILTY CLAY, brown mottled, moist, trace sand, very stiff  CAVE - IN DEPTH AFTER 0 HOURS: NIMR  NOTES: 1) Straffication lines between soil types represent the approximate boundary, greatest transition between in-situ soil layers should be expected.			6		8-3-3-5 (6)						CL-ML	1.75					
SS 16 M 3-3-5-8 9  10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 9-9ft. ORY    WATER LEVEL AT COMPLETION: NMR  WATER LEVE		SS 2	14		4-4-6-8 (10)	- 4 -		4.0	oist, ti	ace sand, very stiff		-2.25					
WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: 9.9ft.  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1 OZAUKEE CO.GPJ 143 821/15					- 6 -					CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60\GINT\1229-04-0	SS 3	16		3-3-5-8 (8)	- 9 -				40.05		3.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT	4-01-14							End of Bor	ng at	10.0 ft.							
WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: 9.9ft.  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0							WATER LEVFI & CA	VE-II	N OBSERVATION DA	ATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z KEENT	Z   w.	ATER	ENCC	DUNTERED	DURIN	NG DI		_	I		N:	9.9ft.				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SYOZAL	_															WET   DRY
	N	OTES: 1	1) Stratifi	cation	lines between	soil type	es repr		al trans								

OED WIE	CONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	): 	B44
AHTTMERS	OF TRANSPOR	Mad	ison	, WI 53704	й. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	DWAY N							AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3673	361.8	65 E	ASTING: 602870.376
	E START				11/14/	14	REW CHIEF:	MD	DRILL RIG:					NATE SY			wccs
	E COMP	LETED:			11/14/	14		AET	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	INTY:				Ozauk	ee	OG QC BY:  C. Wierzchov	wski	HAMMER TYPE:				TREAME	BED ELE	VATION	:	NA
STA	TION 2	070+0	0SB	OFFSET	9'	Lt T	OWNSHIP: RANGE: SEC	TION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA	TION:		
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ui	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	18	M 23	2-5-9-7 (14)	- 1 - - 2 -		4" TOPSOIL 0.3 SILTY CLAY, brown, moist, very	y stiff				3.0	38	21		HSA	
					- 3 -												
$\bigwedge$	SS 2	18	M 20	3-5-7-7 (12)	- 4 -						CL	2.5					
					- 6 -		8.0										
	SS 3	24	M 16	3-5-7-8 (12)	- 9 -		FINE SANDY CLAY, light brown				SC	2.0					
					10		End of Bori	ng at	10.0 ft.								
$\vdash$							WATER LEVEL & CA\	/F_II	N ORSERVATION F	ΔΤΛ							
$\nabla$	, ,,,	ΔΤΕΡ	ENICC	OUNTERED	ייםו וח י	/IC D		/E-II	CAVE - IN DEPTH AT		ETIC	NI:	NMR				WET  DRY
<b>1</b>	_			L AT COMF			NMR	II	CAVE - IN DEPTH AT				NMR				DRY DRY DRY DRY DRY
_							resent the approximate boundary; gradua	_									DRY 🗆
///							resent the approximate boundary; gradua urement Recorded	u u di l	inon between in-silu soii laye.	i o oi iUUIQ	ne ext	JEULEU.					

0ED (	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	B45
HTWEEK	OF TRANSPORT	Mad	ison	, WI 53704	Ĭ.		WISDOT STRUCTURE ID:		000000000000000000000000000000000000000				AGE NO				1 of 1
		OJECT NA	ME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	DWAYN						RILLING CONTRACTOR:  AE	ΞT	DRILLING CONTRACTOR PROJEC	JT NO:			ORTHIN	3683	348.2	54	EASTING: 603037.396
	E START				11/11/	14	REW CHIEF:  MI OGGED BY:	D	DRILL RIG:					NATE SY		1.	WCCS
	E COMP	LETED:			11/11/	14	AE	T	HOLE SIZE:		4	in					/ERTICAL DATUM:
	INTY:				Ozauk	ee	OG QC BY:  C. Wierzchowsł	ki	HAMMER TYPE:					BED ELE		l:	NA
SIA	TION <b>2</b>	080+0	0NB	OFFSET		0	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SI	ECTION:	S	JRFACE	ELEVA	TION:		1
L 1074 4 0	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	I C	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					<b>-</b> 1 -			jrav	el, stiff							HSA	A
	SS 1	14	M 18	3-4-5-5 (9)	- 2 -							1.5					
	SS 2	16	M 14	5-8-8-8 (16)	- 4 -		Hard				CL	4.5					
					- 6 -												
O OLEVERATION THE CAST TO OTH SOCION TIZZE TO THE CAST OF THE CAST	SS 3	18	M 17	3-5-4-7 (9)	- 8 - - 9 -		8.0  SILTY CLAY TO CLAYEY SILT, lightine sand, stiff				CL-ML	- 1.75	26	14			
					.5		End of Boring	at 1	10.0 ft.								
							WATER LEVEL & CAVE	-10	N OBSERVATION D	ATA							
$\nabla$		ATER	ENCC	DUNTERED	DURI	NG D			CAVE - IN DEPTH AT		LETIC	DN:	9.7ft.				WET  DRY
<u>1</u>				L AT COMF			NMR J	=-	CAVE - IN DEPTH AFT				NMR				DRY L
=	OTES: 1	) Stratifi	cation	lines between	soil type	es repi	resent the approximate boundary; gradual tra	ans									DIVI [
Š							urement Recorded		•								

· 0Eb	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				3OF		G IC	):	B46
MATINETS	OFTRANSIO	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	AME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:					RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	36	9346	.1 EA	ASTING: <b>603115.9</b> 4
DA	TE STAR	ΓED:			11/14/	14 <sup>C</sup>	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	ATE SY	STEM:	•	wccs
DA	TE COMP	LETED:			11/14/	14	OGGED BY:	AET	HOLE SIZE:		4		ORIZON'	TAL DA	TUM:	VE	ERTICAL DATUM:
CO	JNTY:				Ozauk	e L	OG QC BY: <b>C. Wierz</b> o	chowski	HAMMER TYPE:			ST	REAMB	ED ELE	VATION:		NA
STA	TION 2	090+0	0SB	OFFSET	21'	Lt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SU	JRFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geo Each Majo	Rock Des blogical ( or Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	6	M 17	9-4-5-8 (9)	- 1 - - 2 -		0.1 1" SHOULDER GRAVEL SILTY CLAY, brown, moist,	trace san	d, very stiff		GW-GM	3.75				HSA	
	SS 2	16	M 18	5-9-15-15 (24)	- 3 -		Hard				CL	4.5					
4-01 OZAUREE CO. GPJ 143 8Z1/15					- 6 - - 7 -		Gray/brown, very stiff										
SOUNTENOUZAUKEULASITZEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	SS 3	24	M 19	5-9-10-13 (19)	9 -		10.0					3.0					
-101					10		End of	Boring at	10.0 ft.								
1229-04							\\\ATED E\/E  0 /	^ <u> </u>	N OBSERVATION D	ΔΤΛ							
Z KEN 35	7 \ \	ΔΤΕΡ	ENIC	DUNTERED	DI IDIN	IC D		DAVE-II	CAVE - IN DEPTH AT		FTIO	VI:	NMR				WET DRY
Z SiOzauk				L AT COMF			NMR	1254	CAVE - IN DEPTH AT				NMR				DRY DRY DRY DRY
NO NO							resent the approximate boundary; gr	radual trans					414117				DRY [
3							urement Recorded			<b>.</b>	JAP						

ACCOUNTY	Jep.	SCONSIN 3	WI [	Dept.	of Transp	ortati	on	WISDOT PROJ	ECT ID:	1229-04-01					G ID	):	B47
1.43   See   1.45   See   1.45   See   1.45   See   1.45   See   1.45   See   1.45   See   Se	MATTHER	OFTRANS	Mad	lison	, WI 53704	u. 			CTURE ID:								1 of 1
### 1414114   MM   PRICE SERVED   MARKET   MARKE				ME:		I-	43										
1111114									AET		ECT NO:			3703		23 E	ASTING: <b>603239.345</b>
1975   1975						11/11/	14		MD								wccs
Section   Companies   Compan	DA	TE COMP	LETED:			11/11/	14	OGGED BY:	AET	HOLE SIZE:			HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
SS   12 M   SS   14 M   S7-8-11   - 4   - 5   - 6   - 6   - 6   - 7	СО	UNTY:					L	OG QC BY:	C. Wierzchowski	HAMMER TYPE:		5	STREAM	BED ELE	VATION:		NA
SS   14   M   5-7-8-11   4   10.0   End of Boring at 10.0 it.	STA	ATION 2	100+0	0NB	OFFSET	15'	Rt T	OWNSHIP: RA	NGE: SECTION:		1/4 1/4 SECTIO	N: 5	SURFACE	ELEVA	TION:		
SS 12 M 9-4-7-8 2 SILTY CLAY, brown, moist, trace sand & gravel, Filt_very stiff  SS 14 M 5-7-8-11 4		SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geological	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   12   M   9-4-7-8   2						- 1 -	A A A A A A A A A A A A A A A A A A A	0.3 10.5" PCC	brown, moist, trace sar	nd & gravel, FILL, very stiff						HSA	
SS 14 M 5-7-8-11 - 4			12	M 21	9-4-7-8 (11)							3.75	5				
SS 16 M 6-7-9-10 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 9.8ft. MRT  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL		SS 2	14		5-7-8-11 (15)	- 4 -		Hard				4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION:  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	EE CO.GPJ 143 8/21/15					- 6 -					CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43 - SILVERSPRING DR TO STH 60/GINT/1229-04-01 OZAUI	SS 3	16		6-7-9-10 (16)			10.0	End of Roving o	10.0 ft		4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1-10-04-01								⊏ua oi Boring ai	10.0 IL.							
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	13/1229-(							WATER	LEVEL & CAVE-I	N OBSERVATION [	DATA						
WATER LEVEL AT COMPLETION: NMR  WET Loss  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	Z   w.	ATER	ENC	DUNTERED	DURI	NG D					ON:	9.8ft.				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAL	_															WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	cation	lines between	soil type	es repi		te boundary; gradual tran				<i>I.</i>				

og Wisc	ONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PRO	JECT ID:		1229-04-01				BOF		G IE	):	B48
HTTM OF	TRANSPOR	Mad	lison	, WI 53704	u. 1		WISDOT STRU	JCTURE ID:						AGE NO				1 of 1
		JECT NA	ME:		l-	43	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDI				DNGITUDE:
	)WAY N						RILLING CONTRACTOR	:	AET	DRILLING CONTRACTOR PROJ	IECT NO:			IORTHIN	3713	38.0°	14	ASTING: <b>603185.08</b>
	START				11/14/	14	REW CHIEF:		MD	DRILL RIG:				COORDIN				wccs
DATE	COMPI	LETED:			11/14/	14	OGGED BY:		AET	HOLE SIZE:		4	·in │	IORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COUN					Ozauk	ee	OG QC BY:	C. Wierzch	howski	HAMMER TYPE:				TREAME				NA
STATI	ION <b>2</b>	110+0	0SB	OFFSET		0	OWNSHIP: RA	ANGE:	SECTION:	1/4 SECTION:	1/4 1/4 5	SECTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Ro and Geol Each Major	logical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	16	M 13	2-4-5-8 (9)	- 1 -		0.3 3" TOPSOIL SILTY CLAY,	brown, moist, t	trace gra	vel, hard			4.5				HSA	
	SS 2	18	M 17	7-11-12-1: (23)	2 4 -		Very stiff						3.25	;				
-01 OZAUKEE GO.GPJ 143 821/15					- 6 -		Gray/brown					CL						
OO   1   1   1   1   1   1   1   1   1	SS 3	18	M 14	3-7-8-10 (15)	- 9 -		10.0						2.25					
+01-14					.5			End of E	Boring at	10.0 ft.								
N1229-0-							\\/\ <u>\</u> \\\	I EVEL & C	`Δ\/⊏_II	N OBSERVATION	ΠΔΤΛ							
Z Z	١٨/	ΔTFR	FNC	DUNTERED	וח ופוי	NG D		LLVLL & C	AVE-II	CAVE - IN DEPTH A		DI ETIC	NI.	NMR				WET DRY
Siozauk	+			L AT COM			NMR			CAVE - IN DEPTH A				NMR				DRY DRY DRY DRY
NOT								ite boundarv: ara	adual trans	sition between in-situ soil lay								DRY [
000							urement Recorded	Souridary, gra	.audi ii ai k	sourcon in-situ soii lay	J. J. J. 1001	JU 6X	Jooieu.					

OED	SCONSIN 30	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	B49
HTIMES	OFTRANS	Mac	lison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3723	37.70	)8 E	ASTING: <b>603237.326</b>
	TE STAR				11/11/	14	REW CHIEF:	MD	DRILL RIG:					IATE SY			wccs
DAT	TE COMP	LETED:			11/11/	<b>14</b>	OGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
	JNTY:				Ozauke	e	og QC BY:  C. Wierzcho	wski	HAMMER TYPE:					BED ELE			NA
STA	TION <b>2</b>	120+0	0NB	OFFSET		0	DWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
	SAMPLE 1 YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -		6" TOPSOIL  0.5  SILTY CLAY, brown/dark browr stiff	n, mois	st, trace gravel, FILL, very							HSA	
	SS 1	6	M 19	3-3-5-5 (8)	- 2 -						CL	2.75					
	SS 2	14	M 22	2-3-4-6 (7)	- 4 -							2.25					
-01 OZAUKEE CO.GPJ 143 8/21/16					- 6 - - 7 -		SILTY CLAY, light brown mottle hard	ed, mo	ist, trace sand, very stiff to		CL						
COUNTIES/OZAUKEEI-L43/1226-04-01 - 143 - SILVERSPRING DR TO STH ØNGINNTZZ8-04-01 OZAUKEE OO GPJ 143 82/1/5  N	SS 3	20	M 18	4-9-15-16 (24)	- 9 -		10.0					4.5					
01-143				•	10	, /	End of Bor	ring at	10.0 ft.								•
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\/E !!	N ODSEDVATION D	ΛTΛ							
EE/143/	7 \ 14'	٨Τ٢٥	ENIO?		י רו וריי	IC D'	WATER LEVEL & CA	_			ETIO	NI:	NIA 4 P				WET I
SYOZAUKEE				DUNTERED				■   <u>®</u>	CAVE IN DEPTH AT				NMR				WET DRY DRY DRY DRY DRY
NA NA	·			L AT COMF			NMR esent the approximate boundary; gradua	al trans	CAVE - IN DEPTH AFT				NMR				DRY
ğ (**							rement Recorded	a, u ai i	botwoon in-situ soii iayei	Janoulu	~C GVF	JUIUU.					

Solid   Processing   Processi	OEPA OEPA	ONSIN. 30	WI [	Dept.	of Trans	portati	on	WISD	OT PROJECT ID:		12:	29-04-01						G IE	):	B50
Main   Control   Main   Main   Control   Main   Mai	THE STATE OF	TRANSPOR	Mad	lison	, WI 5370	4			OT STRUCTURE ID	):	CONCLUTATION	DDO IECT NO							li e	1 of 1
STATE   1997				ME:		I-	43		MOTOR:				NEOT NO							
Mode									RACTOR:	AET		TRACTOR PRO	DJECT NO:				3733		9 E	603182.573
Section   Sect						11/14/	14			MD									I. a	
Companies   Comp			LETED:			11/14/	14			AET				4	in					ERTICAL DATUM:
SS   12 M						Ozauk	ee		C. W	/ierzchowski			1/4 1/4 9	ECTION						N/A
SS 12 M 13-5-7-8 2 SETY CLAY, brown motified, most, trace sand & gravel, POSSIGLE PLL, hard  SS 12 M 4-7-8-11 4 SETY CLAY, brown motified, most, trace sand, very stiff  CL 4.5  SS 18 M 5-11-17-19 9 SETY CLAY, brown motified, most, trace sand, very stiff  CL 4.5  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER L	JIAI	2	130+0	0SB	OTTOET	15'	Lt	TOWNSHII .	TONGE.	SECTION.	1/4	SECTION.	1/4 1/4 3	LOTION	.   3	JINI ACL	I			
SS 12 M 13-6-7-8 2	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and	d Geological (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 12 M 13-6-7-8 2							4 ⊿	0.3											HSA	A
SS   12   M   13-5-7-8   2							4 4													
SS 12 M 4-7-8-11 - 4 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  SS 12 M 4-7-8-11 - 4 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 6 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 7 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 6 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 7 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 6 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 7 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 7 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, very stilf CL 4.5  - 8 SILTY CLAY, brown motified, moist, trace sand, v						7 1	7	SILTY	CLAY, brown/o	dark brown, mois	st, trace sand	l & gravel,			+					
1	$\backslash / $							POSSI	BLE FILL, hard	d										
SS   12   M   4-7-8-11   4   4-7-8-11   5   5   6   6   7   7   8   Hard	$\ \cdot\ $		12		13-5-7-8	_ 2.									4 5					
SS 12 M 4-7-8-11 4  Bard  Hard  SS 18 M 5-11-17-19 9  Bard of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPL	$ \Lambda $	1	12	17	(12)	-								CL	4.5					
SS 12 M 4-7-8-11 4  Bard  Hard  SS 18 M 5-11-17-19 9  Bard of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPL	$/ \setminus$																			
SS 12 M 4-7-8-11 4    SS 18 M 5-11-17-19 9    Hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COM						3		3.0												
SS 18 M 5-11-17-19 9  Hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between ris-sit usoil layers should be expected.	1							SILTY	CLAY, brown r	nottled, moist, tr	ace sand, ve	ry stiff								
SS 18 M 5-11-17-19 9  Hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between ris-sit usoil layers should be expected.	$\mathbb{N}$																			
SS 18 M 5-11-17-19 9 Hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	V		12			4									3.5					
Hard  SS 3 18 M 5-11-17-19 9 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ELVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT ECR 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$ \Lambda $	2	'-	20	(15)	-									0.0					
Hard  SS 18 M 5-11-17-19 9  10 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	$/ \setminus$																			
Hard  SS 18 M 5-11-17-19 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.																				
Hard  SS 18 M 5-11-17-19 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT EXPO HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						3														
Hard  SS 18 M 5-11-17-19 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT EXPO HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																				
Hard  SS 18 M 5-11-17-19 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT EXPO HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																				
Hard  SS 18 M 5-11-17-19 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR																				
Hard  SS 3 18 M 5-11-17-19 9 10.0  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.														CL						
Hard  SS 3 18 M 5-11-17-19 9 10.0  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						7														
Hard    SS   18																				
Hard    SS   18    M   5-11-17-19   9																				
Hard    SS   18    M   5-11-17-19   9																				
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						$\top$ ° $\cdot$		Hard												
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\mathbb{N}$																			
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\ \cdot\ $	SS	40	М	5-11-17-1	9														
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$ \Lambda $		18			9									4.5					
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$/ \setminus$																			
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						1.0		10.0												
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☒       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY ENCOUNTERED DURING DRILLING: NMR       WET DRY ENCOUNTERED DRY ENCOUN					•	<del>· 10</del>	/	, .·· <del>·</del>	E	End of Boring at	10.0 ft.					•				•
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☒       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NMR       NMR       WET DRY ENCOUNTERED DURING DRILLING: NMR       WET DRY ENCOUNTERED DRY ENCOUNT								\Λ/ Δ <sup>-</sup>	TERIEVE	I & CΔ\/F-II	N OBSEE	ν/ΔΤΙΩΝ	ΠΔΤΔ							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\Box$	W	ATER	ENC	DUNTERE	D DURI	NG D							LETIC	DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		+														NMR				WET DRY
	NO									lary; gradual trans	sition between	in-situ soil la	yers should	d be exp	pected.					

Control   Cont	OED.	SCONSIN.	350°	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				3OF		G IE	):	B51
14   14   14   14   15   15   14   14	MATTHERS	OF TRANSPOR	Mad	lison	, WI 53704	u. L												1 of 1
A				ME:		I-	43											
11/11/14									AET		CT NO:				3743		64 E	ASTING: 603263.565
11/11/14   11/11/14	DA	TE STAR	TED:			11/11/	14 C	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	ATE SY	STEM:		wccs
SS   12 M   S-6-0-12   4 M   S-6-0-12	DA	TE COMP	LETED:			11/11/	14	OGGED BY:	AET	HOLE SIZE:		4 ir		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
Soli / Rock Description   Solid / Rock Descriptio	CO	UNTY:				Ozauk	ee	C. Wierzcho	owski	HAMMER TYPE:			ST	ΓREAMB	ED ELE	VATION	:	NA
SS   12   M   8-3-4-8   2   2   3   3   With sand   ST   12   M   5-6-9-12   4   4   5   4   5   5   5   5   5   5	STA	ATION 2	140+0	0NB	OFFSET	15'	Rt	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SU	JRFACE	ELEVA <sup>*</sup>	TION:		
SS   12   M   8-34-8   2	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolog	gical (	Origin for		USCS / AASHTO	Sulengui യു (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 18 M 5-6-9-12 4						- 1 -	D A	0.4 , 10" PCC , 1.2	m mottl	and major trans cond ?							HSA	
SS   18   M   5-6-9-12   4			12	M 21	8-3-4-8 (7)			gravel, very stiff	n motti	ed, moist, trace sand &			4.0					
SS 18 M 7-13-17-26 9 Gray/brown, hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR ORK:  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION:		SS 2	18		5-6-9-12 (15)	- 4 -		With sand				2	2.75					
SS 18 M 7-13-17-26 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR CAVE-IN DEPTH AFTER 0 HOURS: NMR CAVE-IN OBSERVATION DATA  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	(EE CO.GPU 143 8/21/15					- 6 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	t3 - SILVERSPRING DR TO STH 60/GINT/1228-04-01 OZAU	SS 3	18	M 16	7-13-17-26 (30)			10.0	oring -	10.0 <del>f</del>			4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7-104 1					-		Ena of Bo	лнg at	10.0 It.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0							WATER LEVEL & CA	VF-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	Z   w.	ATER	ENC	DUNTERED	DURI	NG D					TION	:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Siozal	_								-								WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	cation	lines between	soil type	es repi	resent the approximate boundary; gradu	ual trans									DIT!

dao.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJE	CT ID:		1229-04-01						G IE	):	B52
HTTMERS	OFTRANSPOR	Mac	lison	, WI 53704	u. 1		WISDOT STRUC	CTURE ID:						AGE NO				1 of 1
		OJECT NA	AME:		<b> -</b> 4	13	ONSULTANT:			ONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AE <sup>-</sup>	T	RILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	375	5337.9	96	ASTING: 603203.164
	TE STAR				11/14/	4	REW CHIEF:	М	D	RILL RIG:					NATE SY			wccs
	TE COMP	LETED:			11/14/	4	OGGED BY:	AE <sup>-</sup>	т 📗	OLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
CO	UNTY:				Ozauke	e	OG QC BY:	C. Wierzchowsk	(i	AMMER TYPE:			S	TREAME	BED ELE	VATION	:	N/
STA	ATION	150+0	0SB	OFFSET		0	OWNSHIP: RAN	IGE: SECTION	l:	1/4 SECTION:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock De and Geological Each Major Unit /	Orig	gin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 17	4-4-7-7 (11)	- 1 - - 2 -		0.2 2" TOPSOIL SILTY CLAY, b	prown mottled, moist,	trace	e sand, very stiff			3.25				HSA	A
	SS 2	16	M 17	5-12-13-1: (25)	5- 4-		Hard					CL	4.5					
SOUNTIESOZALKEEI 43 1729-04-01 - 143 - SIVERSPRING BR TO STH BOIGIN 17220-04 01 OZALKEE CO.GPU 143 8/21/15					- 6 -													
- SILVERSPRING DR TO STH 60/GINTA	SS 3	18	M 16	5-9-10-14 (19)	- 9 -		10.0						4.5					
-101					10			End of Boring a	at 10.	.0 ft.								
1229-04							\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		INI 4	OBSERVATION D	ΔΤΛ							
7 EE/143	7 \ \	٨ΤΕΡ	ENIC	DUNTERED	י רו ורוי	IC D		EVEL & CAVE-	_			I ETIC	NI:	NMR				WET F
Stozauke	_			L AT COM			NMR		_	CAVE - IN DEPTH AT ( CAVE - IN DEPTH AFT				NMR NMR				WET DRY DRY DRY DRY
NA PER								boundary: gradual tra	- 1	on between in-situ soil layers								DRY [
							esent the approximate irement Recorded		131110	20th con in-situ soii layen	- Si ioult	. SO GX	Joieu.					

OED A	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>D</b> :	B53
HALLMERS	OF TRANS	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:		CONCILITANT PRO TEST VIC				AGE NO				1 of 1
		DJECT NA	MÉ:		1-4	13	CONSULTANT:		CONSULTANT PROJECT NO:	OT NO			ATITUDE				ONGITUDE:
	ADWAY N							ΕT	DRILLING CONTRACTOR PROJECT	CINO:			ORTHIN	3763		73	EASTING: 603249.763
	E START				11/11/	14	CREW CHIEF:  OGGED BY:	ИD	HOLE SIZE:				ORIZON			- Ix	WCCS /ERTICAL DATUM:
	JNTY:	LETED:			11/11/	14	OGGED BY:  A OG QC BY:	ΕT	HAMMER TYPE:		4	in	TREAME				/ERTICAL DATUM:
	TION			OFFSET	Ozauke	e	C. Wierzchows OWNSHIP: RANGE: SECTIO	ski	1/4 SECTION:	1/4 1/4 SEC	CTION:		URFACE			4.	NA
017	2	<u> 160+0</u>	0NB	OTTOET		0	TWINGE.	011.	774 DESTION.	174 174 020	311014.		I	I	11011.	1	<u> </u>
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock I and Geologic Each Major Uni	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						71 1/										HS/	A .
						17 3	0.3 SILTY CLAY, brown mottled, mois	-4 4	0								
	SS 1	14	M 19	3-5-5-8 (10)	- 1 - - 2 -		Stiff				CL	2.75					
VERSPRING DX TO STH 80/GINT71228-04-01 OZAUKEE CO.GFJ 143 8/21/15	SS 2	1	M 16	3-5-6-5 (11)	- 4 -		Stiff  5.0 End of Borin	ng at	5.0 ft.			1.25					
3 - SILVE																	
01 - 143																	
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_ ''	N OBSERVATION D	) A T A							
ZEE/143/	7 14/	ATED	ENICO	) INTERES	DITIDIA	IC D	WATER LEVEL & CAVE				ETIO	NI:	VIV AL				WET □
SYOZAUKEE				DUNTERED L AT COMF					CAVE - IN DEPTH AT				NMR NMR				WET DRY DRY DRY DRY DRY
<b>≝</b> —=							NMR	=									DRY 🗍
ğ (**							urement Recorded	a ai iè		. S Griodia k	-υ υλρ	JUIU.					

OED.	SCONSIN.	WI [	Dept.	of Transp Isman Blv	ortati	on	WISDOT	PROJECT ID:		1229-0	4-01					G IE	):	B54
HTIMERS	OF TRANSPOR	Mad	lison	, WI 53704	4. 1			STRUCTURE ID	):					PAGE NO				1 of 1
		OJECT NA	AME:		I-	43	CONSULTANT:			CONSULTANT PROJE	CT NO:		L	ATITUD	E:		L	ONGITUDE:
RO	1 YAWDA	NAME:					RILLING CONTRA	CTOR:	AET	DRILLING CONTRACT	OR PROJECT	NO:	١	NORTHIN	NG: <b>377</b> 3	337.97	'1 <sup>E</sup>	ASTING: <b>603184.362</b>
DAT	TE STAR	TED:			11/14/	/14	REW CHIEF:		MD	DRILL RIG:			C	COORDII	NATE SY	'STEM:		wccs
DAT	TE COMP	LETED:			11/14/	L	OGGED BY:		AET	HOLE SIZE:			in ⊦	HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
COI	JNTY:				Ozauk	L	OG QC BY:	C W	/ierzchowski	HAMMER TYPE:				STREAM	BED ELE	VATION:		N/A
STA	TION	170+0	ner	OFFSET	20'	Т	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION	ON: 1/	4 1/4 SECTION	I: S	SURFACE	E ELEVA	TION:		INF
		110-0			<u> </u>					l l								
L CO	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and	oil / Rock Des d Geological ( Major Unit / (	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						P 4 A	<u> </u>										HSA	
					ļ <sub>1</sub> .	P A	4											
1						94	1.3	I AV brown/li	ight brown mottl	ed, moist, trace sa	nd &		-					
$\backslash /$							gravel, h		igni brown mote	5u, moist, trace 3a	iiu a							
IV	SS	12	М	15-5-9-7	- 2 -								4.5					
$\Lambda$	1	12	14	(14)	_								7.5					
$/ \setminus$																		
/ \																		
					+ 3 -	1//												
\ /							1											
$\mathbb{V}$	00		М	6-12-14-1	=		1											
lλ	SS 2	14	15	(26)	4	1//							4.5					
I/							1											
/ \																		
					<del> </del> 5-	1//												
												CL						
					6 -													
8/21/15					- 7 -													
Z 4																		
9.00																		
ZAUKE					8 -													
9-04-01																		
INT/1228																		
1 800 1 1 800 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SS		М	5-14-20-24	4		1						١					
% 108	3	16	16	(34)	†- 9 -	1//							4.5	35	20			
PRING																		
SILVERS							10.0											
1-143	1	1			<del>  10</del>	<u> </u>	/ <sub>1</sub> 10.0	E	End of Boring at	10.0 ft.				1				1
DOUNTIES/OZAUKEEI-43/1226-04-01 - 143 - SILVERSPRING DR TO STH ØNGINTIZ220-04-01 OZAUKEE CO GPJ 143 827/15											F1011 = 1							
EN43/1.	7	A T		O. INITES ==	. D =	NO -				N OBSERVAT			<b></b>	A / A				\\/ET
SYOZAUKEE	_			DUNTERED				NE		CAVE IN DE				NMR				WET DRY DRY DRY DRY
NV NV				L AT COMF			NMR resent the appro	oximate bound	larv: gradual trans	CAVE - IN DE				NMR				DRY 🗀
ğ /V							urement Record		, gradadi tidik		. Jon layers c		Pooled	•				

OEPA.	CONSIN.	WI [	ept.	of Transp Isman Blv	ortati d.	on			T PROJE					1229-04-0	01					RIN	G II	D:	В	55
HIMERY	DF TRANSPOR	Mad	ison	, WI 53704	ļ		CONOL =		T STRUC	TURE ID:	:		100	MOLIII TANIT DDO 1505 :	10:				AGE NO			1.	1 0	of 1
		OJECT NA	ME:		Į-	43	CONSULTA		OTOD					NSULTANT PROJECT N		EOT NO			ATITUD				ONGITUDE:	
	DWAY N						DRILLING		CTOR:			AET		ILLING CONTRACTOR F	PROJ	ECT NO:			IORTHIN	378; NATE SY	337.6	63	ASTING: <b>603265.</b>	961
	E STAR	PLETED:			11/11/	/14	LOGGED E					MD		LE SIZE:						NATE ST		I.	WC ERTICAL DATUM:	ccs
	INTY:	LETED.			11/11/	/14	LOG QC B					AET		MMER TYPE:			4	in		BED ELE				
	TION			OFFSET	Ozauk	ee	TOWNSHIE		RAN	C. W	ierzch	nowski SECTION:	1	1/4 SECTION:		1/4 1/4 S	ECTION			ELEVA		••		NA
	2	180+0	ONB		15'	Rt																		
SAMDIE TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic				and	<b>Geol</b>	ock Des ogical ( Unit / (	Orig	otion jin for nments			USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
								5" HM	A													HSA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
						p 1	0.5	5" PC0	0															
						2 A A	4																	
1					+ 1 ·	7 A	Δ.																	
$\backslash / \mid$							:∖ S	AND, b	orown/c	dark bro ents. Fl	own, me ILL. me	oist, trace edium de	e sil	t, some gravel &										
V	SS	10	М	19-18-5-6			•		Ū	,	,													
$ \Lambda $	1	16	15	(23)	2		•										sw	0						
$/ \setminus $							•																	
/ \						***	3.0																	
					+ 3		S	ILTY C	LAY, g	ray/bro	wn, mo	oist, trace	e sa	nd & gravel, very s	stiff									
$\backslash / \! \mid$																								
V	ss		M	3-5-6-9																				
$ \Lambda $	2	14	19	(11)	- 4	1//												3.5						
$/ \setminus $							1																	
/ \					_																			
					<del> </del> 5-																			
					- 6	1//	1																	
							1										CL							
					_																			
					7	<b>//</b>																		
1					+ 8	1//																		
$\backslash /  $																								
V	SS		M	7-12-16-13	3																			
	3	24	18	(28)	9	1//												2.5						
$/ \setminus \mid$																								
$  \  $					魔	4//	10.0																	
Г		1	I.	1	10	1//	10.0			Е	nd of E	Boring at	10.0	Oft.			<u>I</u>	1				1	1	
							,	Λ/ΛΤ	EDI	EV/EI	° C	A\/E II	NI C	DOED\/ATIO	181	DATA								
$\overline{\nabla}$	· w	ATFR	ENC	OUNTERED	DURI	NG F			EK L	.⊏∨⊑L	_ a C	AVE-II	_	DBSERVATIO			LETIC	DN.	9.8ft.				W	ET 🔲
$\overline{\mathbf{v}}$	_			L AT COMF			NMR	· • ·					+	CAVE - IN DEPTH					NMR				DF WI	RY   ET   RY
_	TES: 1	1) Stratifi	cation	lines between	soil typ	es rep	oresent th			bounda	ary; gra			n between in-situ soi									Di	·· <u>⊔</u>
				countered; NA																				

OED	SCONSIN 30	350°	Dept.	of Transp sman Blvo	ortati	on	WISDOT PROJEC	T ID:	1229-04-01				DRIN	IG II	):	B56
MATTHERS	OF TRANSPOR	Mad	lison	, WI 53704			WISDOT STRUCT	URE ID:				PAGE				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			LATIT				ONGITUDE:
	ADWAY N						PRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	ECT NO:				337.9	59 E	ASTING: 603205.561
	TE STAR				11/14/	14	CREW CHIEF:	MD	DRILL RIG:				RDINATE S			wccs
DAT	TE COMP	LETED:			11/14/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZ	ZONTAL D	ATUM:	V	ERTICAL DATUM:
	JNTY:				Ozauk	ee		C. Wierzchowski					AMBED EL		l:	NA
STA	TION 2	190+0	0SB	OFFSET		0	OWNSHIP: RANG	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SURF	ACE ELEV	ATION:		
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit /	Origin for		Strength Qp	(tsf)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 15	6-7-12-17 (19)	- 1 - - 2 -		3" TOPSOIL SILTY CLAY, br	own, moist, trace sar	d, hard		4	.5			HSA	
	SS 2	18	M 15	11-20-27- 33 (47)	- 3 -						- <b>4</b>	.5				
OOUNTISSOZALIKEEL431728-04-01 - L43 - SILVERSIPRING DR TO STH #0/GMY1728-04-01 OZALIKEE CO.GPJ. 143 #21/16					- 6 -		Gray/brown, stif	f								
3 - SILVERSPRING DR TO STH 60/GINTA	SS 3	18	M 18	7-13-17-18 (30)	3- 9-		10.0				2	.0				
101-143					10 -			End of Boring at	10.0 ft.							
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	=\/E	N OBSERVATION [	<b>ΛΤΛ</b>						
Z EN143	7 \ \	ATED	ENIC	DUNTERED	ייםו וחיי			EVEL & CAVE-I			TION!	NN.	/ID			WET F
S'OZAUKEE				L AT COMF			NMR	<u> </u>	CAVE - IN DEPTH AT			NN				WET DRY DRY DRY DRY
N/	·							houndary: gradual tran	sition between in-situ soil laye				11.3			DRY [
Z							urement Recorded	Souridary, graduar traff	saon between in-situ soii läyt	S SHOULU DE	SAPECI	ou.				

WI Dept. of Transportation wisdot PROJECT ID: 122													BOF		G IE	<b>)</b> :	B57
MATTHERS	FTRANSPO	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N							ÆΤ	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3803	37.6	<b>72</b>	ASTING: <b>603252.218</b>
	E START				11/11/	14	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
DAT	E COMP	LETED:			11/11/	14	OGGED BY:	ÆΤ	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	/ERTICAL DATUM:
COU	NTY:				Ozauk	L	OG QC BY:  C. Wierzchow	ski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	l:	NA
STA	TION 2	200+0	0NB	OFFSET		0 T	OWNSHIP: RANGE: SECTI	ION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock I and Geologic Each Major Un	cal (	Origin for		USCS / AASHTO	Strength Op	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		0.2 2" TOPSOIL  SILTY CLAY, gray/brown mottled very stiff	, mo	ist, trace sand & gravel,			-				HSA	A
	SS 1 12 M 2-4-4-5 (8) - 2						Stiff					2.5					
	SS 2	16	M 19	2-5-5-6 (10)	- 4 -		Stiff					2.0					
					- 6 - - 7 -												
	SS 3	18	M 13	4-7-11-12 (18)	- 8 - - 9 -		8.0 SILTY FINE SAND, gray, moist, to	 race	gravel, medium dense		SM						
$\left  \right $			10	(10)	10		10.0 End of Borin	ıg at	10.0 ft.								
_																	
<u> </u>	.						WATER LEVEL & CAV										
$\overline{\underline{\nabla}}$				DUNTERED					CAVE - IN DEPTH AT				9.9ft.				WET DRY
Ā				L AT COMF			NMR	<u> </u>	CAVE - IN DEPTH AF				NMR				WET   DRY
NC							resent the approximate boundary; gradual urement Recorded	trans	sition between in-situ soil laye	rs should	be exp	ected.					

. OEF	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT	ID:	1229-04-01					G ID	):	B58
MATTHER	OF TRANSPOR	Mad	lison	, WI 53704	u.  -		WISDOT STRUCTU	RE ID:				AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		NORTHIN	3813	337.97	'1 E	ASTING: 603192.057
	TE STAR				11/14/	14	REW CHIEF:	MD	DRILL RIG:			COORDIN				wccs
DA	TE COMP	LETED:			11/14/	14	OGGED BY:	AET	HOLE SIZE:	4	∤ in	HORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
СО	UNTY:				Ozauk	ee	OG QC BY:	. Wierzchowski	HAMMER TYPE:		S	TREAME	BED ELE	VATION:		NA
STA	ATION 2	210+0	0SB	OFFSET	15'	Lt T	OWNSHIP: RANGE:		1/4 SECTION:	1/4 1/4 SECTION	: S	URFACE	ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Ea	Soil / Rock Des and Geological ( ach Major Unit / (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -	A A A A A A A A A A A A A A A A A A A	1.2 SILTY CLAY, brov	wn, moist, with sand	, trace gravel, POSSIBLE						HSA	
	SS 1	14	M 19	13-6-6-7 (12)	- 2 -		FILL, hard  2.5  SILTY CLAY, gray	y/brown mottled, mo	ist, trace sand, very stiff	CL	4.25	5				
	SS 2	14	M 25	4-6-6-7 (12)	- 4 -						3.25	5				
AUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -					CL						
DOUNTIES/OZAUKEEL43/1229-04-01 - I43 - SILVERSPRING DR TO STH ØNGINNT229-04-01 OZAUKEE OO GPJ 143 82/1/5   ▼	SS 3	24	M 17	10-14-19- 23 (33)	- 8 - - 9 -		Gray, hard									
+01 - 143					10 -			End of Boring at	10.0 ft.							
41229-04							\MATED I EV	/FI & CΔ\/E !!	N OBSERVATION D	)ΔΤΔ						
Z   KEE\143	7 w	ATFR	FNCC	OUNTERED	DURI	NG D		VEL & CAVE-II	CAVE - IN DEPTH AT		JN.	NMR				WET DRY
S'OZAUK	_			L AT COMF			NMR		CAVE - IN DEPTH AT			NMR				DRY DRY DRY DRY
NA PA	-							oundary: gradual trans	sition between in-situ soil laye							DRY [
8 / 1							urement Recorded	,, gradaar irans		JJulu DC 67	,	-				

- DET	SCONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJEC	T ID:	1229-04-01					G ID	):	B59
MATINESS	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCT	'URE ID:				AGE NO:				1 of 1
		DJECT NA	ME:		l-4	13	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		ORTHIN	3823	37.65	9   5/	ASTING: <b>603268.894</b>
	E START				11/12/	14	REW CHIEF:	MD	DRILL RIG:			OORDIN				wccs
	E COMP	LETED:			11/12/ <sup>-</sup>	14	OGGED BY:	AET	HOLE SIZE:	4	in	ORIZON			VE	ERTICAL DATUM:
	JNTY:				Ozauke	e		C. Wierzchowski	HAMMER TYPE:					VATION:		NA
STA	TION <b>2</b>	220+0	0NB	OFFSET	15'	Rt T	OWNSHIP: RANG	E: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	URFACE	ELEVA	TION:		
	SAMPLE 17FE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
							0.4 4.5" HMA								HSA	
							9" PCC									
					1 -		1.1 SILTY CLAY, bro	own, moist, trace san	d & gravel, hard							
	SS 1	12	M 16	13-8-5-8 (13)	- 2-				•		4.5					
					3 -		Very stiff									
	SS 2	12	M 18	6-12-6-14 (18)	- 4 -						4.0					
/ \					5 - 6 - 7 -											
46	SS 3	18	M 20	7-8-7-11 (15)	- 8 - - 9 -					CL	4.0					
DOUNTESIOZAUKER 431229.0401 - 143 - SILVERSPRING DR TO STH 80/GINTY1229.04.01 OZAUKEE CO GPJ 143 8271/5					- 11 - - 12 - - 13 -											
- I-43 - SILVERSPRING DR TO STH	SS 4	24	M 19	6-10-9-13 (19)			15.0				3.5					
29-04-01					.5			End of Boring at	15.0 ft.							
1.43/122							WATER LE		OBSERVATION D	DATA						
AUKE)	_	ATER	ENCC	DUNTERED	DURIN	IG DI	RILLING: NE		CAVE - IN DEPTH AT	COMPLETIO	N:	NMR				WET DRY
TIES/OZ	<u> </u>	ATER	LEVE	L AT COMP	PLETIO	N:	NMR	Ē	CAVE - IN DEPTH AF	TER 0 HOURS	S:	NMR				WET   DRY
NOO):r							esent the approximate l urement Recorded	boundary; gradual trans	sition between in-situ soil laye	rs should be exp	ected.					

ST SCONSIN	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT P	ROJECT ID:		1229-04-01						G ID	):	B60
THE OF TRANSPORT	Mad	lison	, WI 53704	u. 			TRUCTURE ID:						AGE NO:				1 of 1
WISDOT PR		ME:		<b>I-</b> 4	3	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACT	OR:	AET	DRILLING CONTRACTOR PRO	JECT NO:			ORTHIN	3833	37.95	8 E	ASTING: <b>603208.733</b>
DATE STAR				11/13/1	4	REW CHIEF:		MD	DRILL RIG:				OORDIN				wccs
DATE COMP	PLETED:			11/13/1	4	OGGED BY:		AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COUNTY:				Ozauke	e	OG QC BY:		rzchowski	HAMMER TYPE:						VATION:		NA
STATION 2	2230+0	0SB	OFFSET		0	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SI	ECTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	/ Rock Des eological ( ajor Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	12	M 18	2-4-6-5 (10)	- 1 -		0.2 2" TOPSO SILTY CLA stiff		tled, moist, ti	ace sand & gravel, very			3.0				HSA	
SS 2	12	M 23	4-7-8-8 (15)	- 3 -								3.5					
DOUNTIERSOZAUKEN 431729-04-01 - 143 - SILVERSPRING DR TO STH 60/10/10/10/29-0401 OZAUKEE CO.GPU 143 827/1/5  SELON  R  R  SELON  R  SELON  R  SELON  R  SELON  SELO  SELON  SELO				- 6 - - 7 -							CL						
S - SILVERSPRING DR TO STH 60\(C	16	M 18	3-9-12-15 (21)	9 -		10.0						4.0					
				10			End	of Boring at	10.0 ft.								
13/1229-0						WATE	R LEVEL 8	& CAVE-II	N OBSERVATION	DATA							
a	ATER	ENC	DUNTERED	DURIN	G DI				CAVE - IN DEPTH A		LETIO	N:	NMR				WET DRY
W V	ATER	LEVE	L AT COMF	PLETIO	<b>N</b> :	NMR			CAVE - IN DEPTH A	FTER 0 H	HOUR	S:	NMR				WET  DRY
NOTES:						resent the approxi urement Recorded		gradual trans	sition between in-situ soil la	yers should	be exp	ected.					

. OEF	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOI		G IE	): 	B61
MATTHERS	OF TRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	AME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			NORTHIN	3843	337.4	46 E	ASTING: <b>603245.757</b>
	E START				11/12/	14	CREW CHIEF:	MD	DRILL RIG:				COORDIN				wccs
	E COMP	LETED:			11/12/	14	OGGED BY:	AET	HOLE SIZE:		4	in	HORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	.og QC BY:  C. Wierzcho	wski	HAMMER TYPE:				TREAME			:	NA
STA	TION 2	240+0	0NB	OFFSET	5'	Lt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	s	URFACE	ELEVA	TION:		
L	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 18	2-4-4-5 (8)	- 1 -		SILTY CLAY, gray/brown, mois	st, little	sand, trace gravel, stiff			2.0				HSA	A
	SS 12 M 3-4-6-8 (10) - 4 - 5 -										CL	1.75	5				
2ZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -		8.0										
OQUNTIES/OZAUKER/143/128-04-01-143 -SILVERSPRING DR TO STH 60/GINT7128-04-01 OZAUKEE CO. GPJ 143 827/15	SS 3	12	M 15	3-5-6-9 (11)	- 9 -		FINE SANDY SILT, gray, mois				SM	2.75					
401-14					. •		End of Bo	ring at	10.0 π.								
3/1229-0							WATER LEVEL & CA	VF-II	N OBSERVATION D	ΑΤΑ							
OKEEN143	7 w.	ATER	ENCC	UNTERED	DURIN	NG D			CAVE - IN DEPTH AT		LETIC	N:	9.9ft.				WET  DRY
SYOZAU				L AT COMF			NMR		CAVE - IN DEPTH AFT				NMR				DRY L WET C DRY C
NO OUNTE	OTES: 1	) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradu	ual trans									DIT!
Š.	2	2) NE = I	Not En	countered; NI	ИR = No	Meas	urement Recorded										

Construction   Cons	A.O.E.	SCONSIN.	WI [	Dept.	of Transp	ortati	on	WISDOT PRO	DJECT ID:		1229-04-01				BOF		G II	): _	B62
1.43	MATHERS	OFTRANSPOR	Mad	lison	, WI 53704	u. ļ			UCTURE ID:										1 of 1
Second   S	WIS	DOT PR	OJECT NA	AME:		I-	43				CONSULTANT PROJECT NO:			L	ATITUDE	≣:		L	ONGITUDE:
11/13/14	RO	ADWAY N	NAME:				D	RILLING CONTRACTOR	₹:	AET		JECT NO:				3853		52 E	ASTING: 603085.422
SS   16 M   7-9-18-22   4   10-0-8   11-12-14   9	DA	TE STAR	TED:			11/13/	14 C	REW CHIEF:		MD				C	OORDIN	IATE SY	STEM:		wccs
Section   Complete	DA	TE COMP	LETED:			11/13/	14	OGGED BY:		AET	HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   12   M   10-6-8-1   2   2   2   3   3   18   M   7-9-18-22   4   3   3   3   18   M   7-9-18-22   4   4   5   3   3   3   3   3   3   3   3   3	CO	UNTY:				Ozauk	ee	OG QC BY:	C. Wierz	zchowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	l:	NA
Solid   Rock   Description	STA	ATION 2	250+0	0SB	OFFSET	20'	Lt	OWNSHIP: R		SECTION:	1/4 SECTION:	1/4 1/4 S	ECTION	: S	URFACE	ELEVA	TION:		
SS 12 M 10-6-8-11 2 SILTY CLAY, light brown/brown motified, moist, trace sand, hard  SS 16 M 7-9-18-22 4 4 5 CAVE-IN OBSERVATION DATA  SS 18 M 7-11-12-14 9 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR OFFI	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	eological (	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 12 M 10-68-11 2						- 1 -		0.3 9.5" PCC										HSA	
SS 16 M 7-9-18-22 - 4  Gray/brown, very sliff  SS 18 M 7-11-12-14 - 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR  WATE			12		10-6-8-11 (14)	2		SILTY CLAY	, light brown/t	orown mottl	ed, moist, trace sand, har	rd		4.5					
Gray/brown, very stiff  SS 18 M 7-11-12-14 9		SS 2	16			- 4 -								4.5					
SS 18 M 7-11-12-14 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	EE CO.GPJ 143 821/16					- 6 -							CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43 - SILVERSPRING DR 10 STH 60/GINT/1228-04-01 OZAU	SS 3	18		7-11-12-14 (23)	1			·	of Daving of	10.0 ft			2.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	- 10-4-01								⊏na c	ng at	10.0 IL.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	13/1229-(							WATER	LEVEL &	CAVE-II	N OBSERVATION	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	<u> </u>	Z w	ATER	ENC	DUNTERED	DURII	NG D						LETIC	DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Slozal	_																	WET C
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	ication	lines between	soil type	es repr	esent the approxima	ate boundary; g	gradual trans									2

, OEL	ISCONSIN.	WI [	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	B63
MATTHER	OF TRANSPOR	Mad	ison	, WI 53704	u.		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							AET	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3863	321.67	72 E	ASTING: <b>603007.586</b>
DA	TE START	ΓED:			11/12/	14 C	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	NATE SY	STEM:		wccs
DA	TE COMP	LETED:			11/12/	14	OGGED BY:	AET	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	ee	og QC BY: <b>C. Wierzcho</b> v	wski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	NA
ST	ATION 2	260+0	0NB	OFFSET	15'	Rt T	OWNSHIP: RANGE: SEC	TION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for		USCS / AASHTO	Strength Op (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -	P & S		ı, mois	st, trace sand, hard							HSA	A
$\bigvee$	SS 1	4	M 17	9-8-3-8 (11)	- 2 -							4.5					
	SS 2	14	M 16	6-15-12-18 (27)	3 - 3 -							4.5					
	1				- 6 - - 7 -		Very stiff				CL						
E CO.GPJ 143 8/21/15	SS 3	20	M 19	7-15-14-16 (29)	10 11 -							3.5					
COUNTESIOZAUKEBI 431229-04-01 - 143 - SILVERSPRING DR TO STH 80/GINTY1229-04-01 OZAUKEE CO GPJ 143 821/15	SS 4	20	M 19	7-9-7-11 (16)	- 12 - - 13 - - 14 -		Gray/brown					3.25					
1-143-8					15		15.0 End of Bori	ing of	15 O ff								
29-04-01																	
=1.43.12							WATER LEVEL & CAY	_									
ZAUKEE	_			DUNTERED				幺	CAVE - IN DEPTH AT				14.8ft	t			WET DRY
NTIES/OZ	-			L AT COMP			NMR	<u>=</u>	CAVE - IN DEPTH AF				NMR				WET  DRY
J.(COUT)							resent the approximate boundary; gradua urement Recorded	al trans	sition between in-situ soil layei	rs should	be exp	ected.					

Jep.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	B64
MATINER	OF TRANSPOR	Mad	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3873	310.26	65 E	ASTING: <b>602813.354</b>
	TE STAR				11/13/	14	REW CHIEF:	MD	DRILL RIG:					NATE SY			wccs
	TE COMP	LETED:			11/13/	14	OGGED BY:	AET	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	JNTY:				Ozauk	ee		chowski						BED ELE		:	NA
STA	TION 2	270+0	0SB	OFFSET		0	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
İ	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge Each Maj	Rock Des eological ( jor Unit / (	ocription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 19	3-5-4-5 (9)	- 1 -		0.3 3" TOPSOIL  SILTY CLAY, brown, mois stiff to hard	t, trace sar	d, POSSIBLE FILL, very		CL	2.75				HSA	
	SS 2	14	M 18	5-7-10-14 (17)	- 3 -		4.0 SILTY CLAY, gray/brown r hard to very stiff	mottled, mo	ist, trace sand & gravel,			4.5					
1 OZAUKEE CO.GPJ 143 8/21/1/5					- 6 -						CL						
DOUNTIESIOZAUKEEI 43/1229-04-01 - 143 - SILVERSPRING DR TO STH 80/GINTY1229-04-01 OZAUKEE CO.GPJ 143 82/1/15	SS 3	6	M 18	5-8-13-15 (21)	9 -		10.0					3.75					
F01 - I-43					10		End o	of Boring at	10.0 ft.								
11229-04							\/\ATED E\/E  0	C0\/E	N OBSERVATION D	ΔΤΛ							
Z   WKEE\143	7 \_\_\	ATFR	FNC	DUNTERED	DI IDIN	NG D		CAVE-I	CAVE - IN DEPTH AT		FTIO	N.	NMR				WET □ DRY □
SIOZAUK				L AT COM			NMR	182	CAVE - IN DEPTH AT				NMR				DRY ☐ WET ☐ DRY ☐
N N	·						resent the approximate boundary; g	gradual tran									DRY [
20.5							urement Recorded		, -,								

Jep.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	B65
MATINES	OFTRANSTO	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUDI	E:		L	ONGITUDE:
RO	ADWAY N	IAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		١	IORTHIN	IG: <b>388</b>	309.	46 E	ASTING: <b>602843.197</b>
DA	TE STAR	ΓED:			11/12/	14	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	NATE SY	STEM:		wccs
DA	TE COMP	LETED:			11/12/	L	OGGED BY:	AET	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	JNTY:				Ozauk	L	og qc BY: C. Wierzchov		HAMMER TYPE:				TREAME	BED ELE	VATION	:	NA
STA	TION 2	280+0	0NR	OFFSET	5'	Т	OWNSHIP: RANGE: SEC	TION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		
									'								
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ui	ical (	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 15	3-5-6-8 (11)	- 1 - - 2 -		0.2 2" TOPSOIL  SILTY CLAY, brown/dark brown FILL, very stiff	, mois	st, trace gravel, POSSIBLE		CL	4.0				HSA	
	SS 2	12	M 17	4-7-10-11 (17)	- 3 - - 4 - <u>\sqrt{s}</u>		3.0  SILTY CLAY, brown mottled, mostiff	oist, ti	race sand & gravel, very			2.75					
-01 OZAUKEE CO.GPJ 143 8/21/15					- 6 -		8.0 MEDIUM TO COARSE SAND, b	orown	, wet, medium dense		CL						
OUNTIES/0ZAUKEEI 43/1229-04-01 - 143 - SILVERSPRING DR TO STH 60/GNT/1229-04-01 OZAUKEE CO.GPJ 143 82/1/15	SS 3	14	W-M 13 17	6-6-5-7 (11)	- 9 -		9.0 SILTY CLAY, brown, moist, trac	e san	d, very stiff		SP	-2.75					
01 - 1-43					10		End of Bori	ng at	10.0 ft.								<u> </u>
229-04-0																	
E/I+3/1	7						WATER LEVEL & CA\										LAZETT -
ZAUKEE				DUNTERED				<u>₹</u>	CAVE - IN DEPTH AT				4.5ft.				WET DRY
ITIES/OZ	·			L AT COMF			NMR	Ē	CAVE - IN DEPTH AFT				NMR				WET [ DRY [
NOO!:							esent the approximate boundary; gradua urement Recorded	al trans	sition between in-situ soil layer	rs should	be ex	ected.					

OEM MISO	ONSIN.	WI E	Dept.	of Transp sman Blv	oortati	on		T PROJECT ID:		12	29-04-01						G IE	):	B66
TAU OF	TRANSPOR	Mad	lison	, WI 5370	4			T STRUCTURE ID:		CONCLUTATI	T DDO IFOT NO				AGE NO			Ti -	1 of 1
	OWAY N	DJECT NA	MVIE:		I-	43	CONSULTANT:  ORILLING CONTRA	ACTOP:			T PROJECT NO:				ATITUDI				ONGITUDE:  ASTING:
							CREW CHIEF:	ACTOR:	AET	DRILL RIG:	NTRACTOR PRO	DJECT NO:			OORDIN	3893	309.20	)2	602833.47
	START	LETED:			11/13/	14	OGGED BY:		MD	HOLE SIZE:					IORIZON			Tv.	WCCS ERTICAL DATUM:
COUN					11/13/	14	OG QC BY:		AET	HAMMER TY	DE.		4	in			EVATION		
STAT	ION	.000.0	00D	OFFSET	Ozauk	ee	TOWNSHIP:	C. Wie	rzchowski SECTION:		4 SECTION:	1/4 1/4 S	ECTION		URFACE			•	NA
		290+0	02B		20'	Lt													
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	/ Rock Des Seological C lajor Unit / C	Origin for	3		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						0 A	0.3 4" HMA 9" PCC											HSA	
					<u> </u>	2 4													
$\mathbb{N}$							SILTY C FILL, ha	CLAY, brown, mo ard	ist, with sand	, trace grav	el, POSSIBLE	E							
X	SS 1	6	M 24	9-5-7-8	- 2 -									4.5					
$   \rangle   $	'		24	(12)															
					<u> </u> 3 -								CL						
$\mathbb{N}$																			
V	SS	14	M	5-12-9-14	4 -									4.5					
	2		15	(21)															
					5-	//	5.0			<del></del> .— — -									
							SILTY	CLAY, gray/browr	n mottled, mo	ist, trace sa	nd, hard								
					- 6 -														
					- 7 -														
					′														
					8 -														
$\Lambda$																			
V	SS	20	М	9-17-12-2	1 9									4.5	36	22			
$ \Lambda $	3	20	16	(29)	9									4.5	30	22			
V					10								CI						
3 821/15					<del> </del> 10-	V/.							CL						
<u>4</u>					4.4		1												
(EE CO:					11 -	1//	1												
1 OZAU					10														
0-4-0-627					- 12 -														
60/GIN I/1228-																			
o o o					<del> </del> 13 -	1//	Very stif	ff											
¥ \/	SS		M	6-10-9-13															
KSP X	4	20	17	(19)	° - 14 -	1//								3.75					
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							15.0												
10401-1		-		1	<del>† 15</del>	<u> </u>	/ 10.0	End	of Boring at	15.0 ft.			l		1	-			1
43/1229							WAT	ER LEVEL &	& CAVE-II	N OBSE	RVATION	DATA							
NAME N	W	ATER	ENC	DUNTERED	DURI	NG D	RILLING:	NE	園	CAVE -	IN DEPTH A	AT COMP	LETIC	N:	NMR				WET   DRY
T SYOZ				L AT COM			NMR		Ī■		IN DEPTH A				NMR				WET  DRY
NO.							resent the appr curement Recor	roximate boundary rded	r; gradual trans	sition betwee	n in-situ soil la	ayers should	d be exp	oected.					

OEPA.	CONSIN.	WI [	ept.	of Transp Sman Blv	portation	on	WISDOT PROJECT ID:		1229-04-01					G ID	):	B67
MANIC	DOT DO	Mad	ison	, WI 5370	4	4	WISDOT STRUCTURE ID:		CONSULTANT DECUEST NO.			AGE NO:			liz	1 of 1
	DOT PR	OJECT NA	uviE:		l-	43	CONSULTANT:  DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT NO			ORTHIN				ONGITUDE:
							AE	ΕT		:			3903	805.80	)4	602965.768
	E STAR	PLETED:			11/12/	14	CREW CHIEF:  LOGGED BY:	ΙD	DRILL RIG: HOLE SIZE:				IATE SY		l v	WCCS
	INTY:	LETED.			11/12/	14	LOG QC BY:	ΕT	HAMMER TYPE:		l in			VATION:		ERTICAL DATOW.
	TION			OFFSET	Ozauk	ee T	C. Wierzchows TOWNSHIP: RANGE: SECTIO	ski DN:		/4 SECTION			ELEVA			NA
	2	300+0	ONB		15'	Rt					$\perp$					
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
							<b>3</b>								HSA	
	SS		М	6-3-8-9			\$1.1 SILTY CLAY, brown, moist, trace s FILL, medium	san	d & gravel, POSSIBLE		0.75					
$\bigwedge$	1	3	14	(11)	3 -		Used			CL	0.75					
$\bigvee_{i=1}^{n}$	SS 2	12	M 19	5-9-10-12 (19)	<sup>2</sup> - 4 -		Hard  4.0  SILTY CLAY, brown mottled, moist	īt, tr	ace gravel, hard	_	4.25					
					5-											
					- 6 -					CL						
					- 7 -											
	ss	14	М	5-6-3-3	- 8 - - 9 -		8.0 FINE SANDY SILT, gray, moist, m	nedi	um	SM	1.0					
$\bigwedge$	3		17	(9)	10		10.0	1.04	40.0 <del>f</del>							
							End of Boring	j al	10.0 IL							
	_						WATER LEVEL & CAVE									
$\overline{\underline{\nabla}}$	_			DUNTERE					CAVE - IN DEPTH AT COM			9.4ft.				WET DRY
$\bar{A}$				L AT COM				_	CAVE - IN DEPTH AFTER			NMR				WET  DRY
NC							oresent the approximate boundary; gradual tr surement Recorded	rans	ition between in-situ soil layers sho	ould be ex	pected.					

OEP.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				RIN	G II	<b>)</b> :	B68
MATINETA	OFTRANS	Mac	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:					PAGE N				1 of 1
		OJECT NA	AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			LATITU				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTH	391	305.5	42 E	ASTING: 602956.041
	TE STAR				11/13/	14	CREW CHIEF:	MD	DRILL RIG:				INATE S'			wccs
	TE COMP	LETED:			11/13/	14	OGGED BY:	AET	HOLE SIZE:		4 in		ONTAL DA			ERTICAL DATUM:
	UNTY:				Ozauk	ee	.og QC BY: C. Wierzc	howski	HAMMER TYPE:				/IBED ELE		:	NA
STA	ATION 2	310+0	0SB	OFFSET		0 1	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTI	ON:	SURFA	CE ELEVA	TION:	•	
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ri and Geo Each Majo	logical (	Origin for	CHROVY	Strength Qp	(tst) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 19	4-5-4-4 (9)	- 1 -		3" TOPSOIL SILTY CLAY, brown, moist, FILL, very stiff	trace san	d & gravel, POSSIBLE	С	2.	5			HSA	
	SS 2	16	M 20 12	4-7-14-14 (21)	- 3 -		4.0 SAND, brown, moist to wet,	medium (	dense		4.	0				
1 0ZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -					S	w					
ODINTIESIOZAUKEEI-L431/229-04-01 -   1-43 - SILVERSPRING DR TO STH ØNGINTIZ28-04-01 (OZAUKEE CO.GP)   1-43 @271/5  ▼   Д     Д	SS 3	6	M 21	12-15-12-{ (27)	3- 9 <sup>-</sup> -		10.0 End of	Boring at	10.0 ft.		C					Fines = 12%
59-04-01-																
N-43/122							WATER LEVEL & C		OBSERVATION D	ATA						
ZAUKEEI	_	ATER	ENC	DUNTERED	DURI	NG D	RILLING: 8.9ft.	Ĭ <u>Ş</u>	CAVE - IN DEPTH AT	COMPLET	ION:	9.4f	t.			WET DRY
TIESVOZ	-			L AT COMF			NMR	Ē	CAVE - IN DEPTH AFT			NMF	₹			WET  DRY
NOON:							resent the approximate boundary; gra urement Recorded	adual trans	sition between in-situ soil layer	rs should be	expecte	ed.				

OEP#	ONSIN. 30	WI [	ept.	of Trans	portati	on	WISDOT PROJECT ID:		1229-04-01					G ID	):	B69
THE OF	TRANSTO	Mad DJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:		CONCULTANT DOG 1507 VO			AGE NO			1.	1 of 1
			ME:		l-	43			CONSULTANT PROJECT NO:	T NO.		ATITUDE				
	WAY N						PRILLING CONTRACTOR:	T	DRILLING CONTRACTOR PROJECT	I NO:		ORTHIN	392	304.1	9	ASTING: 603047.608
	START	LETED:			11/12/	14	CREW CHIEF:  M OGGED BY:	ID	DRILL RIG: HOLE SIZE:				TAL DA		I v	WCCS ERTICAL DATUM:
COUN		LE I ED.			11/12/	14	OG QC BY:	T	HAMMER TYPE:	4	in			VATION:	v	ERTICAL DATOW.
STATI	ON			OFFSET	Ozauk	ее	C. Wierzchows	ki N:		1/4 1/4 SECTION:			ELEVA			NA
		320+0	ONB		5	Lt						Ι				
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	I C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						304	0.2 2" TOPSOIL SILTY CLAY, brown, moist, trace s FILL, very stiff	and	1 & gravel, POSSIBLE		_			I	HSA	
	SS 1	6	M 18	2-4-6-5 (10)	- 2 -					CL	3.25					
					3 -		3.0 SILTY CLAY, brown/light brown mo	 ottle	od, trace gravel, stiff		_					
	SS 2	14	M 18	5-6-10-9 (16)	5-						1.5					
					- 6 -					CL						
					- 7 -		Very stiff									
	SS 3	14	M 18	5-8-10-15 (18)	5 - 9 -		very sun				3.5					
					10	<u> </u>	10.0 End of Boring	at ·	10.0 ft.							
							WATER LEVEL & CAVE	-11	OBSERVATION DA	ATA						
$\nabla$	W	ATER	ENC	OUNTERE	DURI	NG D	RILLING: NE	<u></u>	CAVE - IN DEPTH AT C	COMPLETIC	N:	NMR				WET DRY
$\bar{\mathbf{\Lambda}}$	W	ATER	LEVE	L AT COM	PLETIO	N:	NMR	L	CAVE - IN DEPTH AFT	ER 0 HOUR	S:	NMR				WET  DRY
NO7							resent the approximate boundary; gradual tra urement Recorded	ans	ition between in-situ soil layers	s should be exp	ected.					

OEP.	SCONSIN.	WI [	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G ID	):	B70
MATTARET	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:					AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJECT	NO:			3933	03.94	19 E	ASTING: <b>603012.883</b>
DA	TE STAR	TED:			11/13/	'14 C	CREW CHIEF:	MD	DRILL RIG:		C	OORDIN	ATE SY	STEM:		wccs
DA	TE COMP	LETED:			11/13/	′14 <sup>L</sup>	OGGED BY:	AET	HOLE SIZE:	4	in	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
СО	UNTY:			(	Ozauk	ee	.og QC BY:  C. Wierzch	owski	HAMMER TYPE:		S	TREAMB	ED ELE	VATION:		NA
STA	ATION 2	330+0	0SB	OFFSET	15'	Lt	FOWNSHIP: RANGE: SE	ECTION:	1/4 SECTION: 1	1/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roo and Geolo Each Major	gical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						200	0.3 4" HMA								HSA	
V	SS 1	6	M 14	11-4-5-9	- 1 - - 2 -	4 4 4 4 4	9" PCC 1.1 SILTY CLAY, brown, moist, tra	ace san	d & gravel, FILL, hard	CL	4.25					
/\																
					3 -	1	3.0 SILTY CLAY, brown mottled, r	moist, tr	ace gravel, hard							
	SS 2	8	M 14	7-13-11-20 (24)	)- 4 - - 5- - 6 -					CL	4.5					
1229-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 3	14	M 22	4-6-6-8 (12)	- 9 - -10 - -11 -		Very stiff				4.0					
SOUNTIESIOZAUKEE 43/1229.0401 - 143 - SILVERSPRING DR TO STH 60/GINTY1229.0401 OZAUKEE CO.GPJ   143 82/1/5  Z	SS 4	14	M 22	4-6-5-10 (11)	- 13 - - 14 - 15		13.0 CLAYEY SILT, brown mottled,			CL-ML	. 1.75					
1229-04-0	End of Boring at 15.0 ft.															
EEN143/1	WATER LEVEL & CAVE-IN OBSERVATION DATA															
WATER ENCOUNTERED DURING DRILLING: NE												DRY DRY DRY DRY DRY				
V/	-						resent the approximate boundary; grad	lual trans								DRY 🗆
00/5							surement Recorded									

WebDT STRUCTURE   Death   WebDT STRUCTURE	1 of
143	
AET   SA4303,717   SA4003,717   SA503,717   SA503,71	
MID    603085.42	
11/12/14   11/12/14	WCC
COUNTY:   County	L DATUM:
STATION   2340+00NB   OFFSET   15" Rt   TOWNSHIP   RANGE   SECTION:   144 SECTION:   SUPFACE ELEVATION:   SUPFAC	N.
SS   12   M   13-20-7-10   2   M   13-20-7-10   2   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5   SS   16   M   8-13-19-20   4   SS   2   16   M   8-13-19-20   4   SS   2   16   M   8-13-19-20   4   SS   SS   SS   SS   SS   SS   SS	
SS 12 M 13-20-7-10 2 2 2.0 SILTY CLAY, brown, moist, trace sand & gravel, hard 4.5	
SS 1 12 M 13-20-7-10 2 3 10" PCC 3 11 1	Notes
SS 1 12 M 13-20-7-10 2 SILTY CLAY, brown, moist, trace sand & gravel, hard  SS 2 16 M 8-13-19-20 4 4 4.5	
SS 1 12 M 13-20-7-10 2 SILTY CLAY, brown, moist, trace sand & gravel, hard 4.5  SS 2 16 M 8-13-19-20 4 4 4.5	
SS 1 12 M 13-20-7-10 2 SILTY CLAY, brown, moist, trace sand & gravel, hard 4.5  SS 2 16 M 8-13-19-20 4 4.5	
SS 1 12 M 13-20-7-10 2 SILTY CLAY, brown, moist, trace sand & gravel, hard  4.5  SS 2 16 M 8-13-19-20 4 4.5	
SILTY CLAY, brown, moist, trace sand & gravel, hard  SSS 16 M 8-13-19-20 4 (32) 5 - 5 -	
SS 16 M 8-13-19-20 4 (32) 5- 4	
SS 16 M 8-13-19-20 4 4.5	
SS 16 M 8-13-19-20 4 4 5 4.5	
SS 16 M 8-13-19-20 4 4 5 4.5	
SS 2 16 M 8-13-19-20 4 4 5 4.5	
2 10 16 (32) 4	
2 10 16 (32) 4 5 5	
2 10 16 (32) 4	
- 6 - CL CL	
- 6 - CL CL	
- 7 - CL	
- 7 -	
- 7-	
8	
SS   22   M   9-11-16-19   9   4.25     4.25	
10.0 End of Boring at 10.0 ft.	
Lite of Boiling at 10.0 ft.	
WATER LEVEL & CAVE-IN OBSERVATION DATA	
□ WATER ENCOUNTERED DURING DRILLING: NE □ □ □ □ CAVE - IN DEPTH AT COMPLETION: NMR	WET [ DRY [
▼ WATER LEVEL AT COMPLETION: NMR	WET [ DRY [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	

CONSULTATE   CON	OED.	SCONSIN.	WI [	ept.	of Transp	ortati	on	WISDO	OT PROJE	ECT ID:			1229-04-01					RIN	G II	<b>)</b> :	B72
COMMAND   COMM	MATHERS	OFTRANS	Mac	ison	, WI 53704	u. 1			OT STRU	CTURE ID:											1 of 1
Martin   M				ME:		I-	43														
11/13/14   10000000   11/13/14   10000000   11/13/14   100000000   11/13/14   100000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   1000000000   11/13/14   10000000000   11/13/14   10000000000   11/13/14   10000000000   11/13/14   10000000000   11/13/14   1000000000000   11/13/14   11/13/14   1000000000000   11/13/14   11/13/14   10000000000000000000   11/13/14   11/	RO	ADWAY N	IAME:					RILLING CONTR	ACTOR:		AET	. DRILL	NG CONTRACTOR PRO	DJECT NO:				3953		93 E	ASTING: <b>603020.858</b>
SS   18   M   2-3-3-5   24   M   4-7-8-11   9   19-9   1						11/13/	14				MD	1									wccs
STATION 2350+00SB OFFSET 0 TOWNSHIP: NOMGE SECTION: Us SECTION: Us 14 AS SECTION: Us 14 AS SECTION: Us 14 AS SECTION: Us 14 AS SECTION: Us 15 AS SECTION: Us	DAT	E COMP	LETED:			11/13/	14	OGGED BY:			AET	HOLE	SIZE:		4		HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
SS   18   M   2-3-3-5   2     SILTY CLAY, gray, moist, trace sand, very stiff   SS   18   M   2-6-7-8   2   SILTY CLAY, gray, moist, trace sand, very stiff   SS   18   M   3-6-7-8   4   SS   18   M   2-6-7-8   4   SILTY CLAY, gray, moist, trace sand, very stiff   SILTY CLAY, gray, moist, trace sand, very stiff   SS   SS   SS   SS   SS   SS   SS	COI	JNTY:				Ozauk	ee	OG QC BY:		C. Wie	erzchowski	i	ER TYPE:			S	STREAM	BED ELE	VATION	l:	NA
SS 18 M 2-3-3-5 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	STA	TION 2	350+0	0SB	OFFSET		0	OWNSHIP:	RAN	NGE:	SECTION:		1/4 SECTION:	1/4 1/4	SECTION	: S	SURFACI	E ELEVA	TION:		
SS 18 M 2-3-3-5 - 2 - 3 - 3 - 3 - 4 - 3 - 5 - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and G	Geological (	Origin	for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 18 M 3-6-7-8 - 4 - 5 - 5 - CL			8		2-3-3-5 (6)	- 1 -				gray, mois	st, trace sand	l, very	stiff			3.0				HSA	
		SS 2	18		3-6-7-8 (13)	- 4 -										2.25	5				
WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1/228-04-01 OZAUKEE CO.GPJ 1-43 9/21/15					- 7 -															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60/GINT)	SS 3	24		4-7-8-11 (15)	- 9 -		10.0								2.25	5				
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	14-01-143					10 -				Enc	d of Boring at	10.0 f	i.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0							WAT	TERI	EVFI A	& CAVF-I	N OF	SERVATION	I DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z Z	7 w	ATFR	ENCC	DUNTEREC	DURII	NG D			* (		_				DN:	NMR	<u> </u>			WET
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Siozau Z										184										DRY WET
	NO SERIES								roximat	e boundary	y; gradual tran										ן אט

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT	ID:	1229-04-01					RINC	3 ID	):	B73
MATINETS	OF TRANSPOR	Mad	lison	, WI 53704			WISDOT STRUCTU	RE ID:					GE NO:				1 of 1
		OJECT NA	ME:		I	13	ONSULTANT:		CONSULTANT PROJECT NO:				TITUDE:				DNGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			RTHING	3963	03.61	5 E	ASTING: <b>603053.292</b>
	TE STAR				11/12/	14	REW CHIEF:	MD	DRILL RIG:				ORDINA				wccs
	TE COMP	LETED:			11/12/	14	OGGED BY:	AET	HOLE SIZE:		4 in	1	RIZONT			VE	ERTICAL DATUM:
CO	JNTY:				Ozauk	e	OG QC BY:	. Wierzchowski	HAMMER TYPE:			STF	REAMBE	D ELEV	/ATION:		N.A
STA	TION 2	360+0	0NB	OFFSET	10'	Lt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SUI	RFACE E	ELEVAT	ION:		
L L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Ea	Soil / Rock Des and Geological ( ach Major Unit / (	Origin for		USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	16	M 20	3-5-7-11 (12)	- 1 - - 2 -		0.2 2" TOPSOIL SILTY CLAY, gray	y/brown, moist, trace	e sand, hard		2	1.5			1	HSA	
	SS 2	22	M 21	3-7-11-12 (18)	3 -		Very stiff				2 CL	.75					
JOUNIESUDAUKEELASITZEUGUT 143 - SILVERSERING BK TO SIH BÜLGIN INZAG-GETI DZAUKEE UD.GETI 143 BZPTIS					- 6 -												
- SILVERSPRING DK TO STH 60/GINT:	SS 3	24	M 20	4-6-8-10 (14)	- 9 -		10.0				2	2.5					
4-01 - 143					10			End of Boring at	10.0 ft.								
N1229-04							WATEDIE	/FI & CA\/E !!	N OBSERVATION D	ΔΤΔ							
Z	7 \_\_\	ATFR	FNCC	DUNTERED	DI IDIN	ול טו		VEL & CAVE-II	CAVE - IN DEPTH AT		TION		NMR				WET DRY
SiOZAUR Z				L AT COMF			NMR		CAVE - IN DEPTH AF				IMR				DRY C
NO ON	·							oundary; gradual trans	sition between in-situ soil laye								DRY L
							rement Recorded	. ,, g			,500						

OED.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJ	ECT ID:		1229-04-01			ВО		G II	<b>)</b> :	B74
ARTHMEN	OFTRANS	Mad	lison,	, WI 53704			WISDOT STRU	CTURE ID:		I			PAGE NO				1 of 1
		OJECT NA	AME:		I-	-43	CONSULTANT:			CONSULTANT PROJECT NO:			LATITUD				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:		AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTHI	3973	303.4	09 E	ASTING: <b>602993.726</b>
	TE STAR				11/13/	/14	CREW CHIEF:		MD	DRILL RIG:			COORDII				wccs
	TE COMP	LETED:			11/13/	/14	OGGED BY:		AET	HOLE SIZE:		4 in	HORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:	C. Wierzcho	wski	HAMMER TYPE:			STREAM			l:	NA
STA	TION 2	370+0	0SB	OFFSET	20'	Lt	OWNSHIP: RAI	NGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECTIO	N:   5	SURFACI	E ELEVA	TION:		
	SAMPLE 1 YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Roc and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							A .									HSA	
					+ 1	P 6	1.1 4.5" BASE CC	NIDCE									
\ /							1.5				GW-0	3M					
$\mathbb{V}$	00			0400			SILTY CLAY,	brown, moist, tra	ice san	d, very stiff							
X	SS 1	12	M 20	6-4-3-3 (7)	- 2	1//						2.5					
I/I																	
/\																	
					3	1//											
1/																	
$\mathbb{N}$																	
IX	SS 2	16	M 21	3-5-7-9 (12)	- 4	$\frac{1}{2}$						3.2	5				
$    \rangle$	_			()													
$/ \setminus$											CL						
					<u> </u>	1//											
					- 6												
21/15					_												
143 8					7												
CO.GPJ																	
AUKEE							8.0										
04-01 OZ					+ 8	W		TO CLAYEY SIL	T, gray	moist, trace gravel, stiff							
-1171229-																	
1 60/GIN				3-4-5-8													
TO ST	SS 3	24	M 19	(9)	- 9	W					CL-N	1L 2.0					
RING DE						W											
LVERSP																	
- 143 - Si					10	VV	10.0	End of Bo	ring at	10.0 ft.							1
COUNTIES/CZAUKER/143/228-04-01 - 143 - SILVERSPRING DR TO STH 60/GINTY228-04-01 CZAUKEE CO. GPJ 143 827/15																	
E\143.12	,							LEVEL & CA		N OBSERVATION D							
ZAUKEE				UNTERED						CAVE - IN DEPTH AT			NMR				WET DRY
INTIES/OZ	·			L AT COMF			NMR	o houndon :	10/ 45-5	CAVE - IN DEPTH AFT			NMR				WET  DRY
UGON:L							resent the approximat urement Recorded	e poundary; gradi	ıaı trans	sition between in-situ soil layer	s sriouid De 6	xpected	ı.				

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	B75
HATTMERS	OF TRANSPOR	Mad	ison	, WI 53704	ч. 1		WISDOT STRUCTURE ID:	CONCILITANT PROJECT NO			AGE NO:				1 of 1
	ADWAY N		ME:		l-	43	CONSULTANT:  DRILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:		ATITUDE				ONGITUDE:  ASTING:
	E START						REW CHIEF:	DRILL RIG:	JI NO.		OORDIN	3983	303.69	92	603071.159
	E COMPL				11/12/	14	OGGED BY:	HOLE SIZE:			IORIZON			Iv.	WCCS ERTICAL DATUM:
	JNTY:				11/12/	14	OG QC BY:	HAMMER TYPE:	4	in	TREAME				ETTTO, LE BYTTOM.
	TION			OFFSET	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE			•	NA
$\vdash$	2	380+0	0NB		15'	Rt									Τ
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							4.5" HMA							HSA	
						P 4	0.4 10" PCC								
						9 4									
						9 A	4								
						2 4	4								
					† 1 ·	P 4	d d								
						* A	\$1.2 SILTY CLAY, brown, moist, little sand	, POSSIBLE FILL, stiff							
N								,							
$    \rangle  $															
W															
IV	00		.,	7676											
П	SS 1	3	M 23	7-6-7-6 (13)	- 2				CL						
I۸															
$\mathbb{I}$															
$   \rangle$															
							3.0								
					+ 3		SILTY CLAY, gray/brown, moist, trac	e sand, very stiff							
115															
43 8/2/															
GPJ.	00		١.,	0.450											
OZAUKEE CO.GPJ	SS 2	12	M 20	3-4-5-8 (9)	4				CL	2.75					
11 OZAU															
229-04(															
/GINT/1															
STH 60															
3 DR TC															
RSPRIN					5		5.0 End of Boring a	5.0 ft.							<u> </u>
- SILVE															
-101															
11229-04							WATER LEVEL & CAVE-I	N ORSEDVATION D	ΔΤΔ						
Z Z	7 W	ATFR	ENCC	DUNTERED	DURII	NG D	1	CAVE - IN DEPTH AT		N.	NMR				WET  DRY
Siozaur				L AT COMF			NMR	CAVE - IN DEPTH AFT			NMR				DRY  WET  DRY
<b>≝</b> —=	OTES: 1	) Stratifi	cation	lines between	soil typ	es rep	resent the approximate boundary; gradual tran	L							אל 🗌
ZŠ.							urement Recorded		,						

OEP OE	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	B76
MATINES	OFTRANSPOR	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	AME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3993	302.0	99	ASTING: 603050.803
	TE STAR				11/13/	14	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
	TE COMP	LETED:			11/13/	14	OGGED BY:	AET	HOLE SIZE:		4	in	IORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	og QC BY: <b>C. Wierzch</b>	owski	HAMMER TYPE:				TREAME			:	NA
STA	TION 2	390+0	0SB	OFFSET	6'	Rt T	OWNSHIP: RANGE: SI	ECTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	s	URFACE	ELEVA	TION:		
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ror and Geold Each Major	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	14	M 14	3-7-9-10 (16)	- 1 - - 2 -		0.2 2" TOPSOIL SILTY CLAY, brown, moist, tr	ace san	d, hard			4.5				HSA	
	SS 2	18	M 21	3-6-8-10 (14)	- 4 -		Very stiff				CL	2.5					
JI OZAUREE OO.SFJ 143 8/ZI/15					- 6 -		Gray, trace gravel, hard										
SOUN IESUCANCEELI-LASI ZEPURU) - 1-3 - SIVERESPRING DR. 10 SH BUGIN ITZZ-GUU CZAUREE CU.GPJ 1-43 87/175	SS 3	24	M 20	3-5-9-14 (14)	- 9 -		10.0					4.25					
-11-143					10		End of Bo	oring at	10.0 ft.								· · · · · · · · · · · · · · · · · · ·
1229-04							WATER LEVEL & CA	۸\/⊏ !!	N OBSEDVATION D	) A T A							
4	7 \	ATED	ENICO	DUNTERED	י רו וריי	IC D		AVE-II			I ETIC	NI:	NMR				WET Γ
Z Zauker	_			L AT COMF			NMR	Ingest	CAVE - IN DEPTH AT				NMR NMR				WET DRY DRY DRY DRY
N/							resent the approximate boundary; grad	lual trans									DRY [
							esem the approximate boundary, grad urement Recorded	.aar u ar k	Downoon in-olla soil layel	. J Ji iJuil	. 20 GX						

0Eb	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PF	ROJECT ID:		1229-04-0	1					G IE	):	B77
MATHERS	OF TRANSPOR	Mad	lison	, WI 53704	u.  -			FRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:			CONSULTANT PROJECT NO				ATITUD				ONGITUDE:
	ADWAY N						RILLING CONTRACTO	OR:	AET	DRILLING CONTRACTOR P	ROJECT NO:			ORTHIN	4003	300.08	38 E	ASTING: <b>603164.21</b> 8
	TE STAR				11/12/	14	CREW CHIEF:		MD	DRILL RIG:					NATE SY			wccs
DAT	TE COMP	LETED:			11/12/	14	OGGED BY:		AET	HOLE SIZE:		4	in	ORIZON	NTAL DA	TUM:	VI	ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:		rzchowski	HAMMER TYPE:						VATION:		N/
STA	TION 2	400+0	0NB	OFFSET	10'	Lt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 \$	SECTION	S	URFACE	ELEVA	TION:		
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	/ Rock Des Seological ( ajor Unit / (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS	14	M	5-7-8-10	- 1 - - 2 -		3" TOPSOI SILTY CLA	L Y, brown, moi	ist, trace san	d, very stiff			3.5				HSA	
	1		21	(15)	+ 3 -													
	SS 2	16	M 22	4-7-10-11 (17)	- 4 -							CL	3.5	38	23			
U OZAUKEE CO.GPJ 143 ØZI/IB					- 6 -		Gray											
SOUN IESUCANCEELI-LASI ZEPURU) - 1-3 - SIVERESPRING DR. 10 SH BUGIN ITZZ-GUU CZAUREE CU.GPJ 1-43 87/175	SS 3	24	M 20	4-7-9-13 (16)	- 9 -		10.0						3.5					
- 143					10			End	of Boring at	10.0 ft.								
1229-04							\A/A T F F		2 CAVE !!	N OBSERVATIO	N DATA							
Z KEE 43	7 \ \	٨ΤΕΡ	ENICO	DUNTERED	ייטו וט י	VIC D			K CAVE-II	CAVE - IN DEPTH		טו בדיר	NI:	NMR				WET F
Z SYOZAUK	_			L AT COMF			NMR			CAVE - IN DEPTH				NMR NMR				WET DRY DRY DRY DRY
N/								mate houndar	r gradual trans	ition between in-situ soil								DRY [
							urement Recorded		, graduai lidili	MUSTI DOLVICETI III-SILU SOII	iayora arioul	a De ex	Jour <del>o</del> u.					

WISCONSIN.	WI [	Dept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01			ВО		G IE	):	B78
OF TRANSPOR	Mad	lison	, WI 53704	u. !		WISDOT STRUCTURE ID:					PAGE NO				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITUD				ONGITUDE:
ROADWAY	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTHI	NG: 4013	300.8	58 E	ASTING: 603196.764
DATE STAR	TED:			11/13/	'14 °	REW CHIEF:	MD	DRILL RIG:			COORDI			'	wccs
DATE COMP	LETED:			11/13/	L	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZOI	NTAL DA	TUM:	V	ERTICAL DATUM:
COUNTY:				Ozauk	L	og qc BY: <b>C. Wierzch</b>		HAMMER TYPE:			STREAM	BED ELE	VATION	:	N/A
STATION	2410+0	nsr	OFFSET	15'	Т	OWNSHIP: RANGE: S	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ON:	SURFAC	E ELEVA	TION:		147
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geold Each Major	ogical (	Origin for	CHICA	Strength Qp	('S) Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						4" HMA 0.3 9" PCC								HSA	A.
ss	6	М	11-10-8-13			1.1 SILTY CLAY, brown, moist, tr FILL, hard	race san	d & gravel, POSSIBLE							
1	0	14	(18)	- 3		3.0SILTY CLAY, brown mottled,		ace sand very stiff							
SS 2	8	M 24	5-8-10-12 (18)	- 4 -	- -	SILTI GEAT, BOWITHOUSE,	most, u	ace sand, very sun		4.0	)				
0.087 143 821/15				- 6 ·					C	L					
SOUNTIESOZALKEEN-43/1228-04-01 -1-43 - SILVERSPRING DR TO STH BIOGINTY1228-04-01 OZALKEE CO. GPJ 1-43 BZ 1/15  S. S	16	M 21	7-10-10-14 (20)	8 -		Trace gravel				3.2	5				
4 + 43	1		1	<del>' 10 -</del>	1//	End of B	Boring at	10.0 ft.				1			1
29.040															
- 43/12						WATER LEVEL & C		N OBSERVATION D	ATA						
y V W	ATER	ENC	DUNTERED	DURII	NG D	RILLING: NE	Ĭ <u>S</u> I	CAVE - IN DEPTH AT	COMPLE	ION:	NMR	1			WET DRY
Ž W	ATER	LEVE	L AT COMP	PLETIC	N:	NMR		CAVE - IN DEPTH AF	TER 0 HO	JRS:	NMR				WET DRY
NOTES:						resent the approximate boundary; gradurement Recorded	dual trans	sition between in-situ soil layei	rs should be	expecte	d.				

OED A	SCONSIN 3	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01	_			BOF		G II	<b>)</b> :	SR43
HATTMERS	OF TRANSPOR	Mad	ison	, WI 53704	4. 1		WISDOT STRUCTURE ID:	la-:	OUR TANK PROJECT				AGE NO:				1 of 1
		DJECT NA	AMÉ:		I-	43	CONSULTANT:		SULTANT PROJECT NO:	OT NO			ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR:  Gile	s	LING CONTRACTOR PROJE	CI NO:			ORTHIN	357	<b>280</b> .	99	EASTING: <b>602443.107</b>
	TE START				11/18/	14	CREW CHIEF: Chi LOGGED BY:	р	L RIG: E SIZE:				OORDIN			Iv.	WCCS
	JNTY:	LETED.			11/18/	14	GILE:	S L	E SIZE.  MER TYPE:		4	in	TREAMB				PERTICAL DATOM.
				OFFSET	Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION	ki 📗	1/4 SECTION:	1/4 1/4 SEC	TION:		JRFACE				NA
017	343+	-25Poi	rtNB	OT OET	60'	Rt	TOWNSHIE . TOWNSE.	•	1,4 02011014.	114 114 020	1	0.	J NI MOL	LLLWA	11011.		T
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic	Soil / Rock De and Geological Each Major Unit	I Origii	n for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1											HS#	A
	SS 1	18	M 16	4-6-6-6 (12)	- 2 -		SILTY CLAY, brown, moist, trace sa	and, ve	ry stiff		CL	3.0					
SPRING DR TO STH 60/GINTN1228-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 2	12	M 16	4-3-3-4 (6)	- 4 -		5.0 End of Boring	at 5.04	<del>T</del>			3.75					
SILVERS.					5		End of Boring	at 5.0 f	t.								
- F43 - S																	
9-04-01																	
43/122							WATER LEVEL & CAVE	-IŅ O	BSERVATION D	ATA							
		ATER	ENCC	DUNTERED	DURII	NG D	DRILLING: NE	₫ CA	AVE - IN DEPTH AT	COMPLE	TIOI	<b>N</b> :	NMR				WET  DRY
TIES/OZ				L AT COMP					AVE - IN DEPTH AF				NMR				WET  DRY
NOON:							present the approximate boundary; gradual tra surement Recorded	ansition	between in-situ soil laye	rs should b	е ехр	ected.					

OED.	GCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	D:	SR44
ARTHMON	OF TRANS	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:	CONCILITANT PROGESTION			PAGE NO:			1.	1 of 1
		DJECT NA	MÉ:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:	CT NO.		ATITUDE				ONGITUDE:
	DWAYN						ORILLING CONTRACTOR:  Giles	DRILLING CONTRACTOR PROJECT	UT NO:		NORTHIN	3575		84	EASTING: 602494.703
	E START				11/18/	14	CREW CHIEF: Chip OGGED BY:	HOLE SIZE:			HORIZON			Iv	WCCS
	JNTY:	LETED:			11/18/	14	GILES OG QC BY:	HAMMER TYPE:	4	in	TREAME				PERTICAL DATOM:
				OFFSET	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		SURFACE			ν.	N/
017	344+	-80Poi	tNB	OTT GET	230'	Rt	TOWIGE.	174 SECTION.	III III GEOTICIA.	ľ	T	I	11014.	_	T
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							0.8 SILTY CLAY, brown mottled, moist, t	race sand, very stiff						HSA	A
	SS 1	24	M 22	3-4-5-5 (9)	- 2 -		Moist trace fine gravel, stiff		CL	4.0					
	SS 2	12	M 18	5-5-6-7 (11)	- 4 -		Moist, trace fine gravel, stiff  5.0			1.5					
				•	<del>' 5</del>	./_/_	End of Boring a	t 5.0 ft.			•				•
							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
Ī	7 W.	ATER	ENCC	DUNTERED	DURI	NG D		CAVE - IN DEPTH AT		N:	NMR				WET [ DRY [
7	_	ATER	LEVE	L AT COMP	PLETIO	N:	NMR _	CAVE - IN DEPTH AFT	TER 0 HOUR	S:	NMR				WET [ DRY [
$\vdash$	OTES: 1						resent the approximate boundary; gradual tran	sition between in-situ soil layer	rs should be exp	ected	!.				· L
							urement Recorded	<u> </u>	,						

Major   Majo	OED.	SCONSIN.	WI [	Dept.	of Transp	ortatio	on	WISDOT PR	OJECT ID:		1229-04-01					RIN	G IE	):	SR46
Mail	MATHER	OFTRANSIO	Mad	lison	, WI 53704	u. 			RUCTURE ID:										1 of 1
Second   S				AME:		l-	43												
11/18/14   11/18/14									R:	Giles		ECT NO:				3566		98 E	ASTING: <b>602485.786</b>
11/38/14						11/18/	14			Chip									wccs
SS   24 M   S-8-8-10   4   25   30   24   30   30   30   30   30   30   30   3			LETED:			11/18/	14			GILES			4	in					ERTICAL DATUM:
337-00-POPOFISB  15 LI  34 LI  35 LI  36 LI  37 LI  38 LI						Ozauk	ee		C. Wierzch	owski								:	NA
11 TOPSOIL    SS   24   M   3-3-5-5   2	STA	ATION <b>337</b> -	+00Po	rtSB	OFFSET	15'	Lt T	OWNSHIP:	RANGE: S	ECTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA	TION:		
SS 24 M 5-6-8-10 4 S	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geolo	ogical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   24   M   3-3-5-5   2						<b>-</b> 1 -	1.15.	0.9 SILTY CLAY		moist, tr	ace sand & gravel, very							HSA	
SS   24   M   6-7-10-10   9   A-6(4)   2.5   36   21			24	M 19	3-3-5-5 (8)			stiff						3.0					
SS 24 M 6-7-10-10 9 A-6(4)  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER SCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WATER SCOUNTERED HOURS: NMR  WATER SCOUNTERED Before soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.		SS 2	24	M 18	5-6-8-10 (14)	- 4 -								3.0					
SS 24 M 6-7-10-10 9 A-6(4)  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR DRY WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soft types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	VANCE COUGHS SETTING					- 6 -							CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY   -5 5 LVEROFINING DR 1 O 51 H 00/5 N 1/1228-0+0 1 OZ	SS 3	24		6-7-10-10 (17)				End of R	oring at	10.0 ft.			2.5	36	21				
WATER LEVEL & CAVE-IN OBSERVATION DATA   ☐ WATER ENCOUNTERED DURING DRILLING: NE ☐ CAVE - IN DEPTH AT COMPLETION: NMR  ☐ WATER LEVEL AT COMPL	1010									ıg at									
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR         ✓       WATER LEVEL AT COMPLETION: NMR       ☐       CAVE - IN DEPTH AFTER 0 HOURS: NMR         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	10 I C F							WATER	R LEVEL & CA	AVE-II	N OBSERVATION I	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	<u> </u>	ATER	ENC	DUNTERED	DURIN	NG D	RILLING: NE		<b>₽</b>	CAVE - IN DEPTH AT	ГСОМР	LETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	_	ATER	LEVE	L AT COMF	PLETIO	N:	NMR			CAVE - IN DEPTH AF	TER 0 I	HOUR	S:	NMR				WET [
	N									dual trans	sition between in-situ soil laye	ers should	be exp	pected.					

March   Marc	OED.	SCONSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D:	SR47
1.43	MATTHER	OF TRANSPOR	Mad	ison	, WI 53704	u. ‡												1 of 1
College				ME:		I-	43				OT NO							
11/18/14								Giles	es		JI NO:				3575		66 E	EASTING: 602130.925
SS   18 M   34-55   2						11/18/	14	Chij	ip 📗								Iv.	WCCS
Second   Compared			LETED:			11/18/	14	GILES	S 📗			4	in					PERTICAL DATOM:
SS   18   M   S-S-8-8   - 4						Ozauk	ee	C. Wierzchowsk	ki 📗		1/4 1/4 SEC	CTION:					ν.	N/
SS   18   M   3-4-5-5   2   2   3   3   4-5   5   2   4-5   5   3   4   5   5   5   5   5   5   5   5   5	-	347-	+00Po	tSB	OT GET	10'	Lt	TOWNSHIE . IT WHOLE . GESTION		174 OLOTION.	114 114 OEC	311014.		I	LLLWA	11014.	_	T
SS   18   M   3-4-5-5   2	i i	SAMPLE 1YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic	and Geological	I Or	igin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 18 M 5-5-8-8 4 - S						1 -		√. 	avel,	POSSIBLE FILL, hard							HSA	A
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER RECOUNTERED DURING DRILLING: NE DAY  WATER LEVEL AT COMPLETION: NMR CAVE-IN OBSERVATION DATA  WET DAY  WATER LEVEL AT COMPLETION: NMR CAVE-IN OBSERVATION DATA  WOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil leyers should be expected.			18		3-4-5-5 (9)							CL	4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	111		18						-1-	0.0			4.5					
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	LVERSI					5		End of Boring	at 5	.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	9																	
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	-040-																	
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/152							WATER LEVEL & CAVE-	-IN	OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	$\mathbb{Z} \left[ \mathbf{w} \right]$	ATER	ENCC	DUNTERED	DURII	NG D	DRILLING: NE	<b>34</b>	CAVE - IN DEPTH AT	COMPL	ETIO	N:	NMR				WET DRY
		Z w	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AFT	TER 0 H	OUR	S:	NMR				WET [
	No								ansiti	ion between in-situ soil layer	rs should b	be exp	ected.					

WISDOT PRO ROADWAY NA DATE STARTIE  DATE COMPL COUNTY:  STATION 1333+56  BALL BALL BALL BALL BALL BALL BALL BA	Mad DJECT NA AME: ED: LETED:	ntyA		14/20/1 11/20/1 15'   Uzauke 15'	Graphic Craphic	WISDOT STRUCTURE ID:  DISSULTANT:  RILLING CONTRACTOR:  Giles  REW CHIEF:  Chip  DIGGED BY:  GILES  DIG QC BY:  C. Wierzchowski  DWNSHIP:  RANGE:  SECTION:  Soil / Rock Des and Geological ( Each Major Unit / )	DRILL RIG:  HOLE SIZE:  HAMMER TYPE:  1/4 SECTION:  1/4 1/4  CCRIPTION	SECTION	L in Si	HORIZON*  STREAMBI  GURFACE	G: 3577 JATE SY: ITAL DA	EVATION:	VER	1 of GITUDE: TING: 602463.38 WCCS TICAL DATUM:
ROADWAY NA DATE STARTI DATE COMPL COUNTY: STATION 1333+50	AME: ED: ETED:	ntyA	OFFSET	11/20/1 11/20/1 Ozauke 15'	Graphic Craphic	RILLING CONTRACTOR:  Giles  REW CHIEF:  Chip  DIGGED BY:  GILES  DIGGED BY:  C. Wierzchowski  DWNSHIP:  RANGE:  SECTION:  Soil / Rock Des  and Geological (	DRILLING CONTRACTOR PROJECT NO:  DRILL RIG:  HOLE SIZE:  HAMMER TYPE:  1/4 SECTION:  1/4 1/4  SCRIPTION	SECTION	N C C SI	OORTHING COORDIN. HORIZON STREAMBI	G: 3577 JATE SY: ITAL DA' BED ELE'	TUM: EVATION:	VER	TING: 602463.36 WCCS
DATE STARTION 1333+50	ED: ETED:		OFFSET	11/20/1 Ozauke 15'   (t)	Graphic Craphic	Giles REW CHIEF: Chip DGGED BY: GILES DG QC BY: C. Wierzchowski DWNSHIP: RANGE: SECTION: Soil / Rock Des and Geological (	DRILL RIG: HOLE SIZE: HAMMER TYPE:  1/4 SECTION:  1/4 1/4 SCRIPTION	SECTION	c si	COORDIN. HORIZON	3577 JATE SY STAL DA BED ELE	TUM: EVATION:	VER	602463.3 WCC:
DATE COMPL COUNTY: STATION 1333+50	ETED:		OFFSET	11/20/1 Ozauke 15'   (t)	Graphic Craphic	Chip  OGGED BY:  GILES  OG QC BY:  C. Wierzchowski  DWNSHIP:  RANGE:  SECTION:  Soil / Rock Des and Geological (	HOLE SIZE:  HAMMER TYPE:  1/4 SECTION: 1/4 1/4  scription	SECTION	d d	HORIZON*	ELEVA	EVATION:		TICAL DATUM:
COUNTY: STATION 1333+50	0Cour		OFFSET	Depth (ft)	Graphic Craphic	GILES  C. Wierzchowski  DWNSHIP: RANGE: SECTION:  Soil / Rock Desent Geological (	HAMMER TYPE:  1/4 SECTION:  1/4 1/4  CCription	SECTION	in s	SURFACE	ELEVA	EVATION:		
STATION 1333+50			OFFSET	15' ) (tt)	Graphic State of Transport of T	C. Wierzchowski  DWNSHIP: RANGE: SECTION:  Soil / Rock Des and Geological (	1/4 SECTION: 1/4 1/4		: si	SURFACE	ELEVAT	TION:		N.
				Depth (ft)	Graphic <b>T</b>	Soil / Rock Des and Geological (	ecription		dg				роц	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)			and Geological (	scription Origin for	SHTO	g	(%)	(%) ×		pot	
				l -	A 7		Comments	USCS / AASHTO	Strength (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1	1) 711, 211, 211,	8" TOPSOIL						I	HSA	
						0.7								
						SILTY CLAY, dark brown, moist, trac	e sand & gravel, FILL, hard		-					
				+ 1 <del>-</del> [										
1 / 1														
SS		М	4-8-9-9					CL						
1 1	12	20	(17)	2 -					4.5					
						3.0								
				+ 3 +		SILTY CLAY, brown mottled, moist, to	race sand, very stiff		1					
ss		М	4-5-9-10											
2	24	17	(14)	4 -				CL	3.5					
						5.0								
				5	/ / /	End of Boring a	t 5.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION DATA							
∑ WA	ATER	ENCO	UNTERED	DURIN	IG DF	1	CAVE - IN DEPTH AT COM		)N·	NMR				14/5
	١٣٣٠	LEVEI	L AT COMP	I ETION				_	- 1 4.	INIVIE				WET [ DRY [
NOTES: 1)	ΛIEK I			LE HO	<b>N</b> :	NMR	CAVE - IN DEPTH AFTER (			NMR				WET [ DRY [ WET [ DRY [

OEPW OEPW	ONSIN TOE	WI E	ept. 2 Kin	of Transp sman Blv	ortation	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR53
ATT OF	TRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:	LOONOUL TANT DESCRIPTION			AGE NO			1.	1 of 1
		OJECT NA	ME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
	OWAY N						DRILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJECT NO	•		ORTHIN	3582	288.43	2	ASTING: <b>602524.301</b>
	START				11/20/	14	CREW CHIEF: Chip	DRILL RIG:				NATE SY			wccs
		LETED:			11/20/	14	LOGGED BY: GILES	HOLE SIZE:	4	in		ITAL DA		VE	ERTICAL DATUM:
COUN				OFFSET	Ozauk	ee	LOG QC BY:  C. Wierzchowski  TOWNSHIP: RANGE: SECTION:	HAMMER TYPE:					VATION:		NA
13	39+0	2Cou	ntyA	OFFSET	17'	Rt	TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1.	/4 SECTION:	I S	JRFACE	ELEVA	TION:		I
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -	1, 1,	10" TOPSOIL  0.8  SILTY CLAY, dark brown, moist, trace	e sand & gravel, FILL, hard					ŀ	-ISA	
	SS 1	18	M 14	3-4-10-11 (14)	- 2 -				CL	4.5					
	SS 2	24	M 15	10-16-23- 23 (39)	4 -		SILTY CLAY, brown mottled, moist, tr	ace sand, hard		4.5					
	SS 3	24	M 17	7-9-11-13 (20)	- 5- - 6-				CL	4.5					
	SS 4	24	M 13	7-11-15-17 (26)	8 -		8.0 CLAYEY SILT, brown, moist, trace fin	e sand & gravel, very stiff	CL-ML	3.5	19	7			
1-43 8/21/16	SS 5	24	M 22	3-4-6-6 (10)	- 12 - - 13 - - 14 -		13.0	Lyony ctiff A 6(4)	-	2.25	35	21			
O STH ØNGINT/1228-04-01 OZAUKEE CO.GP.				(13)	- 15 - - 16 - - 17 -		S.E S.E. v., gray, moist, trace grave	, ,	CL						
01 - 143 - SILVERSPRING DR TC	SS 6	24	M 21	3-4-6-9 (10)	- 18 - - 19 -		20.0			2.75					
229-04-C							End of Boring at		•						
EN 434.	T			=====			WATER LEVEL & CAVE-II								WET 🗆
ozaukee	+			DUNTERED				CAVE IN DEPTH AT COM			NMR				WET  DRY  WET
NTIES/OZ				L AT COMF			NMR present the approximate boundary; gradual trans	CAVE - IN DEPTH AFTER			NMR				WET  DRY
700							present the approximate boundary; gradual trans surement Recorded	nion between in-situ soli läyers sho	ulu be exp	recied.					

OED NOIN NOIL	WI E	Dept. 2 Kin	of Transp sman Blv	oortatio	on	WISDOT PROJECT ID:	1229-04-01				G ID:	SR54
OF TRANS	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCULTANT DOCUMENTS		PAGE I			1 of 1
WISDOT PR		AME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:		LATITU			LONGITUDE:
ROADWAY						DRILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJECT NO:		NORTI	358	738.726	602585.832
DATE STAR				11/20/	14	CREW CHIEF:	DRILL RIG:			DINATE S		wccs
DATE COMP	PLETED:			11/20/	14	LOGGED BY: GILES	HOLE SIZE:	4 in		ONTAL DA		VERTICAL DATUM:
COUNTY:				Ozauk	ee	LOG QC BY:  C. Wierzchowski	HAMMER TYPE:				EVATION:	NA
STATION 1343+	54Cou	ntyA	OFFSET	20'	Rt	TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4 SECT	TION:	SURFA	CE ELEV	ATION:	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	cription Origin for Comments	USCS / AASHTO	(tsf)	Plasticity Index (%)	Boulders	Dulling Method Notes
				1 -		SAND, brown/light brown, moist, FILL					H	SA
SS 1	12	M 8	5-2-3-5 (5)	- 2 -								
\rightarrow ss		М		3 -		50/5"	s	SW				
2	6	19		5-		4"-6" concrete fill						
				6 -		6.0 SILTY CLAY, brown, moist, with sand	& gravel, hard					
SS 3	24	M 15	9-13-18-2 (31)	0 7 -		Very stiff		4 CL	.5			
SS 4	24	M 15	5-7-9-11 (16)	- 9 -				3	.5			
				- 11 - - 12 -		10.0 FINE TO MEDIUM SAND, gray, moist dense		SP				
SS 5	24	M 11	6-7-5-10 (12)	14		15.0						
				- 16 - - 17 -		SILTY CLAY, gray/brown, moist, trace		CL				
SS 6	24	M 19	3-6-8-11 (14)	18 - - 19 -		A-6(4)		3.	25 35	5 20		
1				20		End of Boring at 2						
			N. IN I————			WATER LEVEL & CAVE-IN						MET 🗆
-			DUNTERED				CAVE - IN DEPTH AT COMPLE		NM			WET  DRY  WET
			L AT COM			NMR	CAVE - IN DEPTH AFTER 0 HO		NM	۲		WET  DRY
						present the approximate boundary; gradual trans surement Recorded	nion between in-situ soli läyers snould be	- expec	eu.			

, OE M	GCONSIN.	WI [	Dept.	of Transp sman Blvo	ortati	on	WISDOT PRO	DJECT ID:	1229-04-01				RIN	G II	D:	SR55
AMMERI	OF TRANSPORT	Mad DJECT NA	lison	, WI 53704	u.		WISDOT STR	EUCTURE ID:	CONCILITANT DOG FOT NO			ATITUD			1.	1 of 1
	DOT PRO		AME:		l-	43	ONSULTANT:	<b>5</b> .	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:		ATITUD				CONGITUDE:  EASTING:
	E START						CREW CHIEF:	Giles	DRILL RIG:	J. 110.			3592 NATE SY	232.4 (STEM:	51	602615.474
	E COMP				11/20/	14	OGGED BY:	Chip	HOLE SIZE:				NTAL DA			WCCS /ERTICAL DATUM:
COL	JNTY:				11/20/	L	OG QC BY:	GILES	HAMMER TYPE:	4	in s	TREAM	BED ELE	VATION	N:	
STA	TION	i0Cou		OFFSET	Ozauk	Т	OWNSHIP: R	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:	: S	URFACE	E ELEVA	TION:		NA
尸	348+5		ntyA			0										
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						1/ 1/	7" TOPSOIL								HSA	4
						7. 7	10.6									
						///	.] 0.6 SILTY CLAY	, brown mottled, moist, tr	ace gravel, very stiff		1					
					1 -											
$\mathbb{N}$																
IV																
V	SS	18	М	3-4-5-5	- 2 -		1				3.5					
$\Lambda$	1	10	19	(9)							3.5					
$\ \cdot\ $							1									
										CL						
					3 -											
2						V/,										
2							1									
5	SS	24	M	6-8-12-14	- 4 -		]				3.5	37	22			
OZAGNEE CO.GF2	2		19	(20)			A-6(4)				3.3	"				
0-1-0-6						V/.										
GINING							1									
NO 1110							1									
2 2 2																
					5	//	5.0	End of Boring at	5.0 ft.			1	1			
49 - OILVE								-								
1010																
							WATER	LEVEL & CAVE-II	N OBSERVATION D	ATA						
ZAUKEE)				DUNTERED					CAVE - IN DEPTH AT			NMR				WET DRY
				L AT COMP			NMR	ate houndany: gradual trans	CAVE - IN DEPTH AF			NMR				WET  DRY
NO.							resent the approximation in the control of the cont	ate boundary; graduai trans	sition between in-situ soil laye	ı sı ıoula be exp	u <del>u</del> cted.	•				

130	WISCONSIN &	WI [	Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01		_			RIN	G IE	): _	SR56
MATE	NOF TRANSPORT	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
	ISDOT PRO		ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	OADWAY N							Giles	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3564	121.80		ASTING: 602249.117
	ATE STAR				11/18/	14		Chip	DRILL RIG:					NATE SY			wccs
	ATE COMP	LETED:			11/18/ <sup>-</sup>	14		ILES	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	OUNTY:				Ozauk	ee	OG QC BY:  C. Wierzcho	wski	HAMMER TYPE:					BED ELE		:	NA
Sī	TATION 1320+0	0Cou	ntyB	OFFSET		0	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SI	ECTION:	SI	JRFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						7/1/2	12" TOPSOIL									HSA	
	SS 1	18	M 14	4-6-7-8 (13)	- 1 -		SILTY CLAY, brown, moist, trac	ce san	d & gravel, hard			4.5					
	SS 2	24	M 16	8-9-16-17 (25)								4.5					
	SS 3	24	M 17	9-13-15-18 (28)	- 6 - 3 - 7 -		A-6(4)				CL	4.5	36	21			
8/21/15	SS 4	24	M 20	6-6-10-11 (16)	- 9 - 10 <i>-</i> -		Very stiff					3.5					
SOUNTESIOZAUKEEIJ431728-04-01 - 143 - SILVERSPRING DR TO STH 80/GINT17239-04-01 OZAUKEE OD GPJ 143 82/1/5					- 11 <i>-</i> - 12 -												
- 1-43 - SILVERSPRING DR TO STH 60\C	SS 5	24	M 14	4-4-4-5 (8)	- 13 - - 14 -		Gray, very stiff					2.25					
9-04-01 -					10		End of Bor	ring at	15.0 ft.								
43/122							WATER LEVEL & CA	VE-I	N OBSERVATION D	ATA							
AUKEE	-	ATER	ENC	DUNTERED	DURIN	IG D	RILLING: NE	闣	CAVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
TIES\OZ	_			L AT COMP			NMR	Ē	CAVE - IN DEPTH AFT				NMR				WET  DRY
J:\COUN							esent the approximate boundary; gradu urement Recorded	ıal tran:	sition between in-situ soil layer	rs should	be exp	ected.					

Negconsin.	WI E	ept. Kin	of Transp sman Blvo	ortatio d.	n	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR57
WISDOT PF	Mad	ison	, WI 53704	ļ -	1	WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			112	1 of 1
ROADWAY		uvic.		I-4	3	ONSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	NO:		ORTHIN				ONGITUDE:  ASTING:
DATE STAR						Giles REW CHIEF:	DRILL RIG:			OORDIN	3569	915.748	8   -	602327.087
DATE COM				11/18/1	4	Chip	HOLE SIZE:			ORIZON			V	WCCS ERTICAL DATUM:
COUNTY:				11/18/1	4	GILES	HAMMER TYPE:	4 i	n			VATION:		
STATION <b>1325+</b>	000	-tD	OFFSET	Ozauke	e	C. Wierzchowski  OWNSHIP: RANGE: SECTION:		4 1/4 SECTION:		JRFACE				NA
1325+		ЩЬ		20'	Χι									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					7 71 .	12" TOPSOIL						F	ISA	
				<del> </del> 1	- :-	1.0 SILTY CLAY, brown mottled, moist, to	ace gravel, hard							
V ss	24	М	6-6-8-10	- 2 -					4.5					
1		14	(14)		//									
				3										
	24	M	12-15-18- 21	4					4.5					
2		15	(33)											
<u> </u>				- 5										
				6				CL						
			0 0 40 1-			Very stiff								
$\begin{vmatrix} & & & \\ & & & \\ & & & 3 \end{vmatrix}$	24	M   18	6-8-12-15 (20)	7	//				3.75					
				8 -	//									
$\mathbb{N}$						Hard								
SS 4	24	M   19	6-8-10-10 (18)	9 -					4.5					
$\backslash \backslash$				10		10.0								
				10		SILTY CLAY, gray, moist, trace grave	el, stiff							
				11	//									
V ss		M	5-5-6-6		//				0.0					
5	24	20	(11)	- 12 -	//	A-6(4)			2.0	35	21			
				13										
ss	_	М	3-4-4-5		//.									
	24	22	(8)	14	//,	A-6(4)			1.5	35	21			
3								CL						
0520					//									
				16	//									
200 E100				17										
8					//									
				18	//,									
SS SS	24	М	4-4-6-6	- 19 -	//				2.0					
7		21	(10)		//	1			0					
				20	///	20.0 End of Boring at	20.0 ft.							
577104						WATER LEVEL & CAVE-I	N OBSERVATION DA	TA						
y V	/ATER	ENCC	DUNTERED	DURIN	G D	RILLING: NE	CAVE - IN DEPTH AT CO	OMPLETION	1:	NMR				WET DRY
			L AT COMF			NMR	CAVE - IN DEPTH AFTE			NMR				WET [] DRY []
						esent the approximate boundary; gradual transurement Recorded	sition between in-situ soil layers s	should be expe	cted.					

OED	SCONSIN 35	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				RIN	G II	):	SR59
MATHERS	OFTRANSPOR	Mad	ison	, WI 53704	u. ļ		WISDOT STRUCTURE ID:					PAGE N				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITU				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJE	CT NO:		NORTH	357	817.10	65 E	ASTING: <b>602267.447</b>
	E START				11/20/	14	REW CHIEF:	Chip	DRILL RIG:				INATE S'			wccs
	E COMP	LETED:			11/20/	14	OGGED BY:	GILES	HOLE SIZE:		4 in		NTAL DA			ERTICAL DATUM:
	JNTY:				Ozauk	ee	DG QC BY: C. Wierzo	chowski	HAMMER TYPE:				MBED ELE		:	NA
STA	TION <b>334+0</b>	0Cou	ntyD	OFFSET	9'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SURFA	E ELEVA	ATION:		
L	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ged	Rock Des blogical C or Unit / (	cription Origin for Comments		Strength Qp	(tSt) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	18	W 25	3-3-3-4 (6)	- 1 -	11 × 10	12" TOPSOIL  1.0  SILTY CLAY, gray/brown m	ottled, mo	ist, trace gravel, very stiff		3.7	5			HSA	
	SS 2	12	M 18	3-5-6-8 (11)	- 4 -		SILTY CLAY, gray/brown, n	noist, trace	e fine gravel, very stiff		2.7	5				
OZAUKEE CO.GPJ 143 821/15					- 6 -						CL					
3 - SILVERSPRING DR TO STH 60/GINT/1229-04-01 O	SS 3	24	M 23	4-5-8-8 (13)	- 8 - - 9 -		SILTY CLAY, gray, moist, to  A-6(4)				1.	5 36	22			
7-10-4 1-					-		End of	Boring at	10.0 IL.							
3/1229-0							WATER I FVFI & (	CAVF-II	N OBSERVATION D	ATA						
Z Keel	7 W.	ATER	ENCC	OUNTERED	DURI	NG DI			CAVE - IN DEPTH AT		TION.	NMI	₹			WET  DRY
Siozaul	_			L AT COMF			NMR	184	CAVE - IN DEPTH AF			NMF				DRY  WET  DRY
<b>⊨</b>							esent the approximate boundary; gr						-			DRY _
§							rement Recorded	Juik			,0000					

S SCONSIN	WI [	Dept.	of Trans	portatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	SR60
OF TRANS	Mac PROJECT NA	lison	, WI 5370	4	-	WISDOT STRUCTURE ID:		CONCULTANT DDG TOTAL			AGE NO:			1	1 of 1
		AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				
ROADWA						RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJ	ECT NO:		ORTHIN	358	309.2	3   E/	ASTING: 602337.389
DATE STA				11/20/	14	REW CHIEF:	Chip	DRILL RIG:			OORDIN				wccs
	MPLETED:			11/20/	14	OGGED BY:	GILES	HOLE SIZE:	<b>4</b> i	in	ORIZON			VE	ERTICAL DATUM:
COUNTY:				Ozauk	ee	OG QC BY:  C. Wierz	chowski	HAMMER TYPE:	T				VATION:		NA
1338	+97Cou	ntyD	OFFSET	11'	Rt	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	JRFACE	ELEVA	TION:		I
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge	Rock Des ological C jor Unit / C	cription Origin for Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				<u> </u>		12" TOPSOIL  1.0  SILTY CLAY, brown, moist	t, trace grav	rel, very stiff					F	-ISA	
SS 1		M 20	3-4-6-7 (10)	- 2-						3.25					
SS 2	3 24	M 21	3-5-5-7 (10)	- 4 -						2.5					
		20		- 6 -					CL						
SS 3		M	5-7-9-11 (16)	- 8 -		Gray				3.0					
				10		10.0 End o	of Boring at	10.0 ft.							
						WATER LEVEL &	CAVE-II	N OBSERVATION	DATA						
Σı	WATER	ENC	OUNTERE	D DURIN	NG D	RILLING: NE	<b>₽</b>	CAVE - IN DEPTH A	T COMPLETION	<b>N</b> :	NMR				WET DRY
	WATER	LEVE	L AT COM	PLETIO	N:	NMR		CAVE - IN DEPTH AI	FTER 0 HOURS	S:	NMR				WET  DRY
NOTES						resent the approximate boundary; g urement Recorded	gradual trans	ition between in-situ soil lay	ers should be expe	ected.					

· 0Eb	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJEC	T ID:	1229-04-01					G ID	):	SR61
MATHER	OFTRANSPOR	Mad	lison	, WI 53704			WISDOT STRUCT	'URE ID:				AGE NO				1 of 1
		DJECT NA	ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUD				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJE	CT NO:		NORTHIN	3587	708.59	8	ASTING: 602390.362
	TE STAR				11/20/	14	REW CHIEF:	Chip	DRILL RIG:			COORDI				wccs
DA	TE COMP	LETED:			11/20/	14	OGGED BY:	GILES	HOLE SIZE:		4 in	HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
	UNTY:				Ozauk	ee		C. Wierzchowski	HAMMER TYPE:					VATION:		N/
ST/	ATION <b>343+0</b>	0Cou	ntyD	OFFSET	7'	Rt T	OWNSHIP: RANG	E: SECTION:	1/4 SECTION:	1/4 1/4 SECTIO	N: S	URFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -	1/ 3/1/ 2/2	1.0 Root material								HSA	
	SS 1	12	M 19	0-1-4-4 (5)	- 2 -		SILTY CLAY, bro	own mottled, moist, tr	ace gravel, hard		4.5					
	SS 2	12	M 20	4-5-7-7 (12)	- 4 -						3.0					
JO.GFJ 143 8Z1/15					- 6 -					CL						
SOUNTENOZAVARENIASI ZSEGGOTI - 13 - SILVERSPRING DR. I O SI H BOIGN 17 ZSEGGOTI OZAVAREN CO.GFO 143 8/2/175					8 -		Gray									
SILVERSPRING DR 10 SIH	SS 3	24	M 19	7-8-10-10 (18)	- 9 -		A-6(4)				3.0	35	20			
-10-					10			End of Boring at	10.0 ft.							
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		N OBSERVATION D	) A T A						
Z   Kee, 43.	7 \14.	٨ΤΕΡ	ENICO	DUNTERED	י חווטיי	אכי ביי		EVEL & CAVE-II	CAVE - IN DEPTH AT		ON:	NMR				WET [
Z Zauk	_			L AT COMF			NMR		CAVE - IN DEPTH AT			NMR				WET DRY DRY DRY DRY
NO S								boundary: gradual trans	sition between in-situ soil laye							DRY [
							rement Recorded	sa y, graduar irans		JJuid DO 6	.,- 50,00	-				

March   Marc	OED.	SCONSIN.	WI I	Dept.	of Transp	ortati	on	WISDOT PROJEC	CT ID:	1229-04-01			BOI		G IE	):	SR62
Construction   Con	MATHERS	OF TRANSPOR	Mac	lison	, WI 53704	u. 1			TURE ID:								1 of 1
Second   S	WIS	SDOT PRO	OJECT N	AME:		Į-	43	ONSULTANT:		CONSULTANT PROJECT NO:		1	ATITUD	E:		LC	ONGITUDE:
SET   11/2014   1980	RO	ADWAY N	NAME:				С	RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJE	CT NO:	1	NORTHIN	NG: 3592	202.01	14	ASTING: 602470.534
State   11/2014   11/201	DAT	TE STAR	TED:			11/20/	14	REW CHIEF:	Chip	DRILL RIG:		(	COORDIN				wccs
SS   12 M   0.34-5   2   2   2   3   3   3   3   3   3   4   2   1   4   3   4   3   4   3   4   3   4   3   4   3   4   3   4   3   4   3   4   3   4   3   4   3   3	DAT	TE COMP	LETED:				L	OGGED BY:		HOLE SIZE:			HORIZON	NTAL DA	TUM:	VI	ERTICAL DATUM:
Section   Sect	COI	UNTY:					L	OG QC BY:		HAMMER TYPE:			STREAME	BED ELE	VATION		N/
Second   S	STA	ATION 348+0	)0Cou	ntvD		<u> </u>	Т	OWNSHIP: RANG	GE: SECTION:	1/4 SECTION:	1/4 1/4 SECTIO	iN: S	SURFACE	E ELEVA	TION:		
SS   12   M   0.3.4.5   2   2   3.0   3.1.17 CLAY, brown, moist, trace gravet, with roots, stiff   SS   1.5   1.5   3.0   3.1.17 CLAY, brown, moist, trace gravet, hard   SS   1.5   3.0   3.1.17 CLAY, brown, moist, trace gravet, hard   SS   1.5   3.0   3.1.17 CLAY, brown, moist, trace gravet, hard   SS   1.5   3.0   3.1.17 CLAY, brown, moist, trace gravet, hard   CL   CL   CL   CL   CL   CL   CL   C									<u>'</u>	'							
SS   12   M   D-3-1-5   2   SANDY CLAY, brown, moist, trace gravel, with roots, stiff   SS   12   M   D-3-1-5   2   SS   SANDY CLAY, brown, moist, trace gravel, hard   SS   18   M   S-8-8-9   4   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SS   24   M   4-6-8-8   9   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SS   24   M   4-6-8-8   9   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SS   24   M   4-6-8-8   9   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SILTY CLAY, brown, moist, trace gravel, hard   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY CLAY, brown, moist, trace gravel, with roots, stiff   4.5   SILTY	L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Geological (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)			
SS 12 M 0-3-4-5 - 2							7 7	10" TOPSOIL								HSA	
SS   12   M   0-3-4-5   2   3   3.0   SILTY CLAY, brown, moist, trace gravel, hard   4.5							777		hrown moist trace ar	avel with roots stiff							
1						+ 1 -		GANDI GEAT,	brown, moist, trace gr	avoi, with roots, still							
1	\ /																
1	W	99		M	0-3-4-5						90						
SS 18 M 5-8-8-9 4	lλ		12	21		- 2 -					30	1.5					
SS 18 M 5-8-8-9 4	$I/\backslash$																
SS 18 M 5-8-8-9 4	/ \																
SS 18 M 5-8-8-9 4	Н					<del> </del> 3 -			rown, moist, trace gra	vel, hard							
2   10   18   (16)   4   5   6   6   7   7   7   7   7   7   7   7	1 /								, ,								
2   10   18   (16)   4   5   6   6   7   7   7   7   7   7   7   7	$\mathbb{N}$																
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Borling at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR OF TORY ON THE STORY OF TORY OF TORY OF TORY ON THE STORY OF TORY OF T	I	SS	18		5-8-8-9	- 4 -						4.5					
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WET LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual translation between in-stup oil leyers should be expected.	$\Lambda$	2		18	(16)												
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WET LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual translation between in-stup oil leyers should be expected.	$/ \setminus$																
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WET LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual translation between in-stup oil leyers should be expected.	/ \					_											
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WET DRY WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						_ 5-											
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WET DRY WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																	
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WET DRY WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																	
SS 24 M 4-6-8-6 9 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR DEPTH						6 -	1//										
SS 24 M 4-6-8-6 9 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR DEPTH											CI						
Gray, very stiff  SS 24 M 4-6-8-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVE	£.																
Gray, very stiff  SS 24 M 4-6-8-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR DRY WATER LEVEL AT COMPLETION: NMR CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR PROMISE: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	13 8/21/					7 -											
Gray, very stiff  SS 24 M 4-6-8-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR DRY CAVE - IN DEPTH AT COMPLETION: NMR DRY CAVE - IN DEPTH AFTER 0 HOURS: NMR DRY CAVE - IN DEPTH AFTER 0 HOUR	- GB																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION:	8																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT	1 OZAU					<b> </b> 8 -	1//	Cray year estiff									
SS 3 24 M 4-6-8-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR WET DRY CAVE - IN DEPTH AFTER 0 HOURS: NMR W	29-04-0							Gray, very sun									
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2.25  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SINT/12																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded.	STH 60/	SS	24									2 21					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded.	품 2	3	24	21	(14)	9						2.23	'				
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded.	PRING																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SILVER							10.0									
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETI	04-01-143-	1	1		1	<del>' 10 -</del>	1//	,	End of Boring at	10.0 ft.		-	-				1
WATER ENCOUNTERED DURING DRILLING: NE	43/1229							WATER LI	EVEL & CAVE-II	N OBSERVATION D	ATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	<u> </u>	ATER	ENCC	UNTERED	DURII	NG D	RILLING: NE		CAVE - IN DEPTH AT	COMPLET	ION:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered: NMR = No Measurement Recorded	Z Z	<u></u>	ATER	LEVE	L AT COMP	PLETIO	N:	NMR		CAVE - IN DEPTH AF	TER 0 HOL	RS:	NMR				WET DRY
	NO NO								boundary; gradual trans	sition between in-situ soil laye	rs should be e	xpected	!				

7. OEF	NISCONSIN.	WI [	Dept.	of Transp sman Blv	portation	on	WISDOT	PROJECT ID:		1	229-04-01				ВОБ	RIN	G IE	):	SR63
MATTANET	TOF TRANSPOR	Mad	lison	, WI 5370	u. 4			STRUCTURE ID:							AGE NO				1 of 1
		OJECT NA	AME:		I-	43	CONSULTANT:  DRILLING CONTRA	OTOR			NT PROJECT NO:	IFOT NO			ORTHIN				ONGITUDE:
	TE STAR						CREW CHIEF:	UTOR:	Giles	DRILL RIG:	CONTRACTOR PRO	JECT NO:				3608 IATE SY	319.25	53	602602.434
	TE COMF				11/18/	14	LOGGED BY:		Chip	HOLE SIZE						ITAL DA		I VE	WCCS ERTICAL DATUM:
	OUNTY:				11/18/	14	LOG QC BY:		GILES	HAMMER T			4	in			VATION:		
	ATION			OFFSET	Ozauk	ee	TOWNSHIP:	C. Wierze	SECTION:		1/4 SECTION:	1/4 1/4 S	ECTION:			ELEVA			NA
H	54+	-96Dor	nges		11'	Rt													
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / F and Ge Each Majo	Rock Des ological ( or Unit / (	Origin for	uts		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
							4" HMA											HSA	
	AUGE 1	R <sub>12</sub>	M 5		- 1 -		0.3 12" BAS	E COURSE					GW	-					
	SS 2	24	M 14	5-3-7-8 (10)	- 2 -		SILTY C	LAY, brown, moist	, stiff				CL	1					
VII - 145 - SILPERGERING ON TO STIT GOOGNITIZES SHOULD CANDER COUNTY 145 SELFIS	SS 3	24	14 M	6-7-7-7 (14)	- 4 -		3.5SILTY S.	AND, brown, moist	t, medium (	dense —			SM	_					Fines = 13%
ENSTRING DA 10.					6		6.0		f D- **										
200					-			End o	of Boring at	ι 6.υ π.									
10.622							WAT	ER LEVEL &	CAVE-II	N OBSE	ERVATION	DATA							
Z	<u> </u>	ATER	ENC	OUNTERED	DURIN	NG E		NE			- IN DEPTH A		LETIC	N:	NMR				WET DRY
<u> </u>		ATER	LEVE	L AT COM	PLETIO	N:	NMR		Ē	CAVE	- IN DEPTH A	FTER 0	HOUR	S:	NMR				WET DRY
N							present the appro surement Record	oximate boundary; g	radual trans	sition betwe	een in-situ soil la	ers should	be exp	pected.					

OEP,	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>D</b> :	SR64
ATTMOST	OF TRANS	Mad DJECT NA	ison	, WI 53704	ч. 1		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			ATITUD			1.	1 of 1
	ADWAY N		ME:		I-	43	CONSULTANT:  DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	CT NO:		ATITUDE				ONGITUDE:
	E START						Giles  CREW CHIEF:	DRILLING CONTRACTOR PROJECT	CT NO:		COORDIN	3608		39	603606.615
	E COMP				12/02/	14	Chip  LOGGED BY:	HOLE SIZE:			HORIZON			Iv.	WCCS
	JNTY:	LLILD.			12/02/	14	GILES LOG QC BY:	HAMMER TYPE:	4	in	TREAME				PERTICAL DATON.
				OFFSET	Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				N/A
	64+	00Dor	ges		15'	<u>Lt  </u>					1				T
	SAMPLE I PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							12" HMA							HSA	A
P	UGE BC	R 2	5				1.0								
	ВС				+ 1 -		SILTY CLAY, dark brown, moist, with stiff	sand & gravel, FILL, very							
	SS 1	12	M 24	6-3-6-6 (9)	- 2-		3.0SILTY CLAY, brown mottled, moist, t	race gravel, hard	CL	2.5					
	SS 2	18	M 18	4-4-5-7 (9)	- 4-		5.0		CL	4.5					
					- 5		End of Boring a	t 5.0 ft.	•						
							MATER LEVEL & CONT.	N 000501471011							
_	7 ,	ATC:	- NIO		, D. 10	VIC 5	WATER LEVEL & CAVE-I			MI-	NINAT				WET F
<u> 7</u>				DUNTERED				CAVE IN DEPTH AT			NMR				WET DRY DRY DRY DRY DRY
				L AT COMF			NMR present the approximate boundary; gradual tran	CAVE - IN DEPTH AF			NMR				DRY 🗎
MC							present the approximate boundary; gradual tran surement Recorded	suon between in-situ soli läyei	ı sı ıoula be exp	rected.					

OEM WISCON	VSIN. JU BE	WI E	ept.	of Trans sman Bl	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR65
MICO	IN DOC	Mad JECT NA	ison	, WI 5370	4	1	WISDOT STRUCTURE ID:	CONCILITANT DDO IFOT NO.			AGE NO			li e	1 of 1
			ME:		l-	43		CONSULTANT PROJECT NO:	TNO		ATITUDE				
ROADV							RILLING CONTRACTOR: Giles		I NO:		ORTHIN	3660	74.77	3	ASTING: 601594.679
DATE S					11/21/	14	REW CHIEF: Chip OGGED BY:	DRILL RIG: HOLE SIZE:				IATE SY		1/1	WCCS
COUNT		E1ED.			11/21/	14	GILES OG QC BY:	HAMMER TYPE:	4	in			VATION:	V.	ERTICAL DATOW.
				OFFSET	Ozauk	<b>96</b>	C. Wierzchowski OWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION:			ELEVA			NA
23	3+00	Mequ	onE		35'	Rt					Π				
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -		12.5" TOPSOIL  1.0  SILTY CLAY, brown/dark brown moti	led moist trace cand &					F	HSA	
	SS 1	18	M 16	4-6-8-12 (14)	2 - 2 -		gravel, FILL, hard	ieu, moist, trace Sanu &		4.5					
	SS 2	24	M 20	9-12-17-2 (29)	21 4 -		Very stiff		CL	3.5					
					5-		5.0 SILTY CLAY, brown mottled, moist, t	race gravel, very stiff							
					- 6 -										
					- 7 -				CL						
	SS 3	24	M 21	5-8-8-10 (16)	) - 9 -		A-6(8)			3.5	40	24			
1				<u> </u>	10	<u> </u>	10.0 End of Boring at	10.0 ft.	_						
							WATER LEVEL & CAVE-I								=
<u></u> ✓				DUNTERE				CAVE - IN DEPTH AT C			NMR				WET DRY
$ar{ar{\Lambda}}$				L AT COM			NMR	CAVE - IN DEPTH AFT			NMR				WET [ DRY [
NOTE							resent the approximate boundary; gradual tran urement Recorded	sition between in-situ soil layers	s should be exp	ected.					

OEPA OEPA	CONSIN.	WI E	ept.	of Trans	portati	on		WISDOT PROJECT ID:	1229-04-01					G IE	):	SR66
HIMERYO	OF TRANSPOR	Mad	ison	, WI 5370	4		001:5	WISDOT STRUCTURE ID:	CONCILITANT DOO 1707 115			AGE NO			1	1 of 1
		DJECT NA	WE:		Į.	43		ULTANT:	CONSULTANT PROJECT NO:	ECT NO		ATITUDE				ONGITUDE:
	DWAY N							NG CONTRACTOR: Giles	DRILLING CONTRACTOR PROJ	ECT NO:		ORTHIN	3661	191.99	94	ASTING: <b>601697.34</b>
	E START				12/02	/14		CHIEF: Chip	DRILL RIG:			OORDIN			l	wccs
	E COMP	LETED:			12/02	/14		ED BY: GILES	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
	INTY:			OFFSET	Ozauk	ee	TOWN	C. Wierzchowski  SHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		JRFACE		VATION:		NA
2	24+00	Mequ	onW	OI T GET	35'	Lt	1	OTHE. TOWAGE. SECTION.	III- GEOTION.	INT INT GEOTION.	l lo	I				
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic		Soil / Rock Des and Geological C Each Major Unit / C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						2 2	0.3	3"HMA							HSA	
						4 A	0.8	6" PCC								
A	UGE	R o	_					6" BASE COURSE								
Ц	BC	6	7		_ 1		1.3			GW						
1								SILTY CLAY, brown, moist, trace sand FILL, hard	d & gravel, POSSIBLE							
$\mathbb{N}$																
$\  \ $	SS	18	М	2-4-6-8	- 2	1//				CL	4.5					
$ \Lambda $	1	10	18	(10)							7.5					
$/ \setminus$																
V					- 3	1	3.0	SILTY CLAY, brown mottled, moist, tr	ace gravel, very stiff							
					+ 4	1//										
$\mathbb{N}$																
$\mathbb{V}$																
I X I	SS 2	24	M 14	6-10-14-1 (24)	<sup> 4</sup> – 5-	1//										
$\mathbb{N}$	_			(24)												
$/ \setminus$																
					<u> </u>	1//										
										CL						
					- 7	¥//										
					'											
					_											
					8	1//	1	Hard								
$\backslash / \! \mid$						1/	1									
V	e e		N.4	5-7-11-1	3											
$\lambda$	SS 3	24	18	(18)	<sup>3</sup> - 9	1//					4.5					
$  \cdot  $																
$V \setminus$																
$\vdash$			<u> </u>		10	1//	<u>/] 10</u>	.0 End of Boring at	10.0 ft.							1
								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	I OBSEDVATION I	DATA						
$\nabla$	, W	ATFR	FNC	OUNTEREI	D DURI	NG F	)BII	WATER LEVEL & CAVE-IN BELOW BE	CAVE - IN DEPTH AT		N·	NMR				WET  DRY
<b>∡</b>	_			L AT COM			NN		CAVE - IN DEPTH AF			NMR				DRY  WET  DRY
_								nt the approximate boundary; gradual trans								טאז 🗆
Ĺ								nent Recorded								

CONSIST NOT PROPERLY	OF WISCONS	્ર WI	Dept.	of Transp	ortati	on	WISDOT I	PROJECT ID:		1229-04	-01			BOF		G II	):	SR67
ROW/WAY NAME	OFTRAN	🥖 Ma	dison					STRUCTURE ID:		1								1 of 1
Divide STAMPED: 12/02/14   Chip   C			NAME:		I-	43												
Chip   12/02/14   12								TOR:	Giles		R PROJECT NO	):			3661		74	ASTING: 601945.719
TOURING TO STREAMED REPORT ON NO. 2.2.25    CLIMITY   COLUMN   COL					12/02/	14			Chip									wccs
STATION OF ST 9' Rt TOWNSHIP: ANAGE SCTION IN SECTION IN SECTION SUBSECTION S					12/02/	14			GILES			4	in					ERTICAL DATUM:
26+50MequonE  3 Rt  3 A ThiMA  4 A MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace day, bose, slight petroleum odor  SS 2 24 M 3 3-3-5-7  2 A M 3 3-3-5-7  3 A MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace day, bose, slight petroleum odor  Fines = 32%					Ozauk	ee		C. Wier	rzchowski								:	NA
AUGER 6 7  SS 1 12 M 2-4-5-5 (9)  - 3  MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace day, loose, slight petroleum odor  SS 2 24 M 3-3-5-7 (8)  A-2-4  Fines = 32%	26.	+50Med	uonE	OFFSET	9'	Rt	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION	N:   1/4 1	/4 SECTION	: S	URFACE	ELEVA	TION:		
AUGER 6 7  SS 12 M 2-4-5-5 1 CLAYEY SILT, brown, moist, trace fine sand, very stiff  2 - 3 - 4 MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace clay, loose, slight petroleum odor  SS 2 4 M 3-3-5-7 (8)  Fines = 32%	SAMPLE TYPE NIMBER	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	Seological (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   12   M   2-4-5-5     3						^	0.3 7.5" PCC										HSA	
SS 12 M 2-4-5-5 (9) - 3 - 4	AUG	SER 6	7		<u> </u>			COURSE				GW						
SS 1 12 M 2-4-5-5 (9)  - 3  4 MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace clay, loose, slight petroleum odor  SS 2 4 M 3-3-5-7 (8)  - 5 -	В	C						SILT, brown, m	oist, trace fir	e sand, very stiff								
SS 24 M 3-3-5-7 (8)  A-2-4  MEDIUM TO COARSE SILTY SAND, brown, moist, with gravel, trace clay, loose, slight petroleum odor  A-2-4  Fines = 32%			M 20									CL-M	2.25					
SS 24 M 3 3-4-5-6 9 - No odor    SS 3 24 M 3 3-4-5-6 9 - 9 - No odor	S	S 24			- 5-		MEDIUM trace clay				gravel,							Fines = 32%
SS 3 24 M 3-4-5-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR WET DRY  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR												SM						
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  ✓ WET DRY ENCOUNTERED DURING DRILLING: NMR	S	S 3 24																
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  ✓ WATER LEVEL AT COMPLETION: NMR	$\vdash$				10	<u> []-</u>	·]10.0	End	of Boring at	10.0 ft.				1				
WATER LEVEL & CAVE-IN OBSERVATION DATA																		
✓     WATER ENCOUNTERED DURING DRILLING: NE     ☑     CAVE - IN DEPTH AT COMPLETION: NMR     NMR       ✓     WATER LEVEL AT COMPLETION: NMR     ☐     CAVE - IN DEPTH AFTER 0 HOURS: NMR							WATE	R LEVEL 8	& CAVE-II	OBSERVATI	ON DAT	Α						
▼ WATER LEVEL AT COMPLETION: NMR	$\overline{\Delta}$	WATER	RENC	DUNTERED	DURII	NG D	RILLING: N	IE		CAVE - IN DEP	TH AT COI	MPLETIC	ON:	NMR				WET □ DRY □
NOTEO () Object to the first transport to the second secon	$ar{ar{A}}$	WATE	R LEVE	L AT COMF	PLETIC	N:	NMR		■	CAVE - IN DEP	TH AFTER	0 HOUF	RS:	NMR				WET  DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTE								; gradual trans	sition between in-situ s	soil layers sh	ould be ex	pected.					·

2 P	3503	ept. Σ Kin	of Transp sman Blv	oortatio d.	on _	WISDOT PROJECT ID:	1229-04-01					G ID		SR68
OFTRAME	Mad	ison,	WI 53704	4 4	-	WISDOT STRUCTURE ID:	CONCULTANT PROJECT VO			AGE NO:			LONGITUDE:	1 of '
	ROJECT NA	ME:		I-4	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				
ROADWAY						RILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJECT NO:				3661	95.20°	EASTING: 60	2298.0
DATE STAF				11/19/	14	REW CHIEF: Chip	DRILL RIG:			OORDIN				WCC
DATE COM	PLETED:			11/19/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VERTICAL DATU	JM:
COUNTY:			OFFSET	Ozauk	e	OG QC BY:  C. Wierzchowski  DWNSHIP: RANGE: SECTION:	HAMMER TYPE:	SECTION:		JRFACE				N/
30+0	0Meque	onW	011021	40'	Lt 🖺	TVINGE.	III DESTINA		T   o	I		1014.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	tes
					1/ 1/ 1/ 2/ 1/	12" TOPSOIL						F	ISA	
SS 1	12	M 14	10-4-5-5 (9)	- 1 - - 2 -		SILTY CLAY, dark brown, moist, with foundry slag, FILL, medium	sand & gravel, trace	CL						
SS 2	18	M 17	2-3-5-7 (8)	- 4 -		3.0 SILTY CLAY, brown, moist, trace sar	d & gravel, very stiff		3.5					
				- 6 -				CL						
SS 3	24	M 18	5-7-7-9 (14)	- 9 -		Hard			4.5					
				10		10.0 End of Boring at	10.0 ft.							
						Life of boiling at								
						WATER LEVEL & CAVE-I	N OBSERVATION DATA							
		ENICC	UNTERED	DURIN	IG DI	RILLING: NE	CAVE - IN DEPTH AT COM	PLETIC	N:	NMR				WET [ DRY [
<u> </u>	/ATER					1								DRY I

OF WISCONSIN	WI [ 1 350°	Dept. 2 Kin	of Trans	portati	on	WISDOT PROJECT ID:	1229-04-01				RINC	G ID	: <b>S</b>	R69
AUCD CO	Mac	lison	, WI 5370	4		WISDOT STRUCTURE ID:	CONICIII TANT PRO IEST VI			GE NO:			1	of 1
	PROJECT NA	AME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:			TITUDE:			LONGITUDE:	
ROADWA						PRILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJECT	NO:			3660	85.953	EASTING: <b>60319</b>	6.577
DATE STA				11/19/	14	Chip	DRILL RIG:			ORDINA				NCCS
	MPLETED:			11/19/	14	OGGED BY: GILES	HOLE SIZE:	4 in	1	RIZONT			VERTICAL DATUM:	
COUNTY:				Ozauk	ee	og QC BY:  C. Wierzchowski	HAMMER TYPE:			REAMBE				NA
39+	00Mequ	onE	OFFSET	15'	Rt '	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1	/4 1/4 SECTION:	SUI	RFACE E	ELEVAI	ION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method Notes	S
				- 1 -		16" TOPSOIL						F	SA	
\		21			7	1.3 SILTY CLAY, brown mottled, moist, tr	ace sand & gravel, very							
SS 1	3 18	М	2-3-4-4 (7)	- 2 -		stiff		3	3.5					
SS 2	3 24	M 17	4-6-10-10 (16)			Hard		2	1.5					
				- 6 -				CL						
1				- 7 -		Gray, very stiff								
SS 3		M 19	9-9-10-1 <sup>2</sup> (19)	1 - 9 -		10.0			3.5					
			1	10	1//	10.0 End of Boring at	10.0 ft.						l	
						WATER LEVEL & CAVE-II								14/== =
			DUNTERE				CAVE - IN DEPTH AT C			NMR				WET DRY
			L AT COM			NMR	CAVE - IN DEPTH AFTE			MR				WET  DRY
NOTES						resent the approximate boundary; gradual trans urement Recorded	sition between in-situ soil layers	should be exped	ted.					

MISCONSIN 35	WI [	Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	SR70
OF TRAME	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
WISDOT PR		AME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWAY	NAME:				DI	RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: <b>3661</b>	42.50	58 EA	STING: 603297.58
DATE STAR	TED:			12/02/1	4 CI	REW CHIEF:	Chip	DRILL RIG:			С	OORDIN	IATE SY	STEM:		wccs
DATE COMP	PLETED:			12/02/1	LC	OGGED BY:	ILES	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	VE	RTICAL DATUM:
COUNTY:				Ozauke	LC	OG QC BY:  C. Wierzcho		HAMMER TYPE:			S	REAME	BED ELE	VATION		N/A
STATION 40+00	)Mequ	onW	OFFSET	10'	TO	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECT	ΓΙΟN:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						5.5" HMA 0.5									HSA	
AUGE BC	R 3	3				0.7 3" BASE COURSE			0	SW.						
				+ 1 <del>-</del>		4" HMA 1.0 SILTY SAND & GRAVEL, brow	vn, moi	st, FILL, medium dense								
SS 1	18	M 6	14-17-9-11 (26)													
SS	18	М	5-3-4-4	- 4		Loose				GM						
2		11	(7)	- 5-						SIVI						
				- 6 -												
EE CO.GPJ 143 8/21/15				7		7.0BURIED TOPSOIL										
CONTRIBOGANDERINANZEGO-GO 1-13 - SILVERSPRING DR TO STR ROGANDINZEGO-GO 1-13 - SILVERSPRING DR TO STR ROGANDING DR TO STR	24	M 16	5-11-17-19 (28)	9 9		8.0 SILTY CLAY, brown mottled, n	 noist, ti	ace gravel, hard		CL	4.5					
43 - SILVERSP				10	<u>//</u>	10.0 End of Bo	rina at	10.0 ft								
1228-04-01 - 17						End of Bo			A T A							
₩	/ATCC	- LIO		Dire	IO D.	WATER LEVEL & CA				T12	N.I.	NIA 4T				WFT F
V V			DUNTERED					CAVE IN DEPTH AT				NMR				WET DRY DRY DRY DRY
₩ WOTES:			L AT COMF			NMR resent the approximate boundary; gradu	ıal tron	CAVE - IN DEPTH AFT				NMR				DRY
NOTES:						esent the approximate boundary; gradi urement Recorded	aar u ari	suon setween in-situ soii idyeri	ง งกบนใน DE	- exp	GUICU.					

OEPA OEPA	CONSIN. 30E	WI [	Dept. 2 Kir	of Trans	portation	on	WISDOT PROJECT ID:		1229-04-01					G ID	):	SR71
ATTO ATTO	FTRANS	Mad DJECT NA	lison	, WI 5370	14		WISDOT STRUCTURE ID:		CONCULTANT PROJECT NO			AGE NO			li.	1 of 1
			AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				
	DWAYN							Giles	DRILLING CONTRACTOR PROJECT NO:  DRILL RIG:			ORTHIN	3662 IATE SY	279.27	'9 <sup> </sup>	ASTING: 602981.189
	STAR	LETED:			11/18/	14	CREW CHIEF:  OGGED BY:	Chip	HOLE SIZE:				ITAL DA		I v	WCCS
	NTY:	LETED:			11/18/	14	OG QC BY:	ILES	HAMMER TYPE:	4	in			VATION:		ERTICAL DATOM.
		)Mequ	onA	OFFSET	Ozauk	ee	C. Wierzcho	WSKI CTION:		SECTION			ELEVA			NA
													(9)		-	
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						710 77 717	14" TOPSOIL								HSA	
					_ 1 -	12 S	1.2	:1	o o o o o o o o o o o o o o o o o o o							
$\backslash /$							SANDY CLAY, brown, moist, tra	ace sii	ok graver, nard							
V	SS 1	18	M 17	2-2-4-5 (6)	- 2 -					sc	4.5					
$\mathbb{N}$																
					- 3 -		3.0 SILTY CLAY, brown mottled, m	oist, tr	ace gravel, hard							
$\setminus / \mid$																
	SS 2	24	M 17	3-3-5-7 (8)	- 4 -						4.5					
$/ \setminus$					- 5-											
					- 6 -											
										CL						
					- 7 -											
1					8 -		Gray, very stiff									
	SS 3	24	M 17	7-10-12-1 (22)	12 <sub>- 9</sub> -		A-6(8)					36	22			
$/ \setminus$							40.0									
		1			10	1//	10.0 End of Bor	ing at	10.0 ft.		1	<u> </u>				ı
							WATER LEVEL & CA	VE-II	N OBSERVATION DATA							
$\nabla$		ATER	ENC	OUNTERE	D DURII	NG D	RILLING: NE	<b>₽</b>	CAVE - IN DEPTH AT COMP	PLETIC	ON:	NMR				WET DRY
Ā				L AT COM			NMR	Ē	CAVE - IN DEPTH AFTER 0			NMR				WET  DRY
NC							resent the approximate boundary; gradu surement Recorded	al trans	ition between in-situ soil layers shoul	d be ex	pected.					

7. OEP.	SCONSIN 3	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOI		G II	<b>D</b> :	SR72
HATTMEN	OF TRANS		ison	, WI 53704			WISDOT STRUCTURE ID:		CONCILITANT PROJECT NO			PAGE NO			1.	1 of 1
	ADWAY N		ME:		I-	43	CONSULTANT:  DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJE	CT NO:		NORTHIN				ONGITUDE:
	TE START						CREW CHIEF:	Giles	DRILL RIG:	CT NO.		COORDIN	3668	378.2	72	602961.097
	TE COMP				11/19/	14	OGGED BY:	Chip	HOLE SIZE:			HORIZON			- Iv	WCCS /ERTICAL DATUM:
	UNTY:				11/19/	14	.OG QC BY:	GILES	HAMMER TYPE:		4 in	STREAME				
STA	ATION			OFFSET	Ozauk	ee	C. Wierzch	nowski SECTION:	1/4 SECTION:	1/4 1/4 SECTION		SURFACE				NA
20	065+00	Mequ	onA			0					$\top$	T				
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geold Each Major	ogical (	Origin for	USCS / AASHTO	Strength Op	(tsr) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 19	3-4-5-7 (9)	- 1 -		9" TOPSOIL  1	race san	d & gravel, POSSIBLE	CL	4.5				HSA	A
VERSPRING DR TO STH 80\GINT1228-04-01 OZAUKEE CO.GPJ   43 821/15	SS 2	24	M 24	4-8-10-12 (18)	- 4 -		3.0  SILTY CLAY TO CLAYEY SII  moist, trace sand, hard  5.0  End of E			CL-M	L 4.5					
13 - SILVE																
4-01-14																
3/1229-0							WATER LEVEL & C	AVF-II	N OBSERVATION F	DATA						
Z   Z   Z   Z   Z   Z   Z   Z   Z   Z	Z w	ATER	ENC	DUNTERED	DURII	NG D			CAVE - IN DEPTH AT		ON:	NMR				WET  DRY
SYOZAU				L AT COMF			NMR		CAVE - IN DEPTH AF			NMR				WET DRY DRY
<u></u>	OTES: 1	) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; grad	dual trans				d.				
۲ ۲	2	2) NE = I	Vot En	countered; NN	лR = No	Meas	urement Recorded									

. OEF	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	): 	SR73
MATTHER	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		<b>I-</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N							Giles	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3648	866.99		ASTING: 602901.654
	E START				11/20/1	14		Chip	DRILL RIG:					NATE SY			wccs
	E COMP	LETED:			11/20/1	14		SILES	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	JNTY:				Ozauke	e	OG QC BY:  C. Wierzcho	owski	HAMMER TYPE:					BED ELE		:	NA
20 20	TION <b>45+0</b> (	Mequ	onB	OFFSET		0	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SI	ECTION:	s	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	9	M 20	1-2-4-4 (6)	- 1 -		4" TOPSOIL 0.3  SILTY CLAY, brown, moist, tra	ace san	d, POSSIBLE FILL, stiff			1.75				HSA	
	SS 2	18	M 20	3-5-9-9 (14)	- 4 -		Very stiff				CL	3.0					
04-01 OZAUKEE CO.GPJ 1-43 8/21/15					- 6 - - 7 -												
DOUNTIESIOZAUKEEI 43122504-01 - 143 - SILVERSPRING DR TO STH 60/GINTY1229-04-01 OZAUKEE CO. GPJ 143 8271/5	SS 3	18	M 25	3-4-7-7 (11)	9 -		9.0 SILTY CLAY, gray, moist, with				CL	- 2.5					
4-01-14							End of Bo	oring at	1υ.υ π.								
3/1229-0							WATER LEVEL & CA	VF-II	N OBSERVATION D	ΑΤΑ							
Z KEEN 43	7 W	ATER	ENCC	OUNTERED	DURIN	IG DI			CAVE - IN DEPTH AT		LETIC	N:	NMR				WET  DRY
SIOZAUI	_			L AT COMF			NMR		CAVE - IN DEPTH AFT				NMR				DRY ☐ WET ☐ DRY ☐
N N	OTES: 1	) Stratifi	cation	lines between	soil type	s repr	resent the approximate boundary; gradu	ual trans									DIG [
Ö	2	) NE = 1	Vot En	countered; NN	ИR = No I	Measu	urement Recorded										

dao.	WI Dept. of Transportation wisdot project id: 1229-04-01											BO		G II	<b>D</b> :	SR74
MATTHERS	OF TRANSPOR	Mad DJECT NA	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:		LOONOU TANT DDG :			PAGE NO				1 of 1
	DOT PRO		ME:		I-	43	CONSULTANT:  DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:		NORTHIN				ONGITUDE: EASTING:
	E START						CREW CHIEF:	Giles	DRILL RIG:	CT NO.		COORDIN	3659	964.0	31	602976.192
	E COMP				11/19/	14	LOGGED BY:	Chip	HOLE SIZE:			HORIZON			Τv	WCCS /ERTICAL DATUM:
	JNTY:				11/19/	14	OG OC BY:	GILES	HAMMER TYPE:		4 in	STREAME				
STA	TION			OFFSET	Ozauk	ee	C. Wierzch	iowski ECTION:	1/4 SECTION:	1/4 1/4 SECTIO		SURFACE				NA
20	56+00	Mequ	onB			0										
i i	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geold Each Major	ogical (	Origin for	USCS / AASHTO	Strength Qp	(tst) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							10" TOPSOIL  0.8  SILTY CLAY, brown, moist, tr	ace san	d & gravel, very stiff						HS#	A
	SS 1	18	M 20	2-3-5-5 (8)	- 2-						3.0					
PRING DR TO STH 60/GINTY1228-04-01 OZAUKEE CO.GPJ 143 9/21/15	SS 2	24	M 16	4-6-7-12 (13)	- 4 -		5.0			CL	4.0					
VERSPE	1				<del>' 5</del>	<i>V /</i> _	End of E	Boring at	5.0 ft.			-				1
229-04-01 - 143 - SIL																
EE/143/1	7 ,	٨٣٥	-NO		, D. 15	VIC 5	WATER LEVEL & CA				ON:	NIN 4D				WFT F
SYOZAUKEE				DUNTERED					CAVE IN DEPTH AT			NMR				WET DRY DRY DRY DRY
<b>≝</b> —=				L AT COMF			NMR  present the approximate boundary; grad		CAVE - IN DEPTH AF			NMR				DRY
ğ (**)							surement Recorded	u ai li		. C Griourd DE C	.,,,,,,,,,,					

OEM WISCO	NSIN.	WI D	ept.	of Transı ısman Blv	portatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	SR75
MANO OF THE	PANSON DO	Mad	ison	, WI 5370	4	4.	WISDOT STRUCTURE ID:		CONCLITANT PROJECT NO			AGE NO:			li e	1 of 1
	NAY NA	JECT NA	WE:		l-	43	CONSULTANT: DRILLING CONTRACTOR:		CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJEC	T NO:		ORTHIN				ONGITUDE:  ASTING:
								Giles		I NO:			3658	354.02	4	602631.239
	STARTE				11/19/	14		Chip	DRILL RIG: HOLE SIZE:			OORDIN			l v	WCCS
	COMPL	ETED:			11/19/	14		ILES		4	in				Vi	ERTICAL DATUM:
STATIO		Mequ	onC	OFFSET	Ozauk	ee	LOG QC BY:  C. Wierzcho  TOWNSHIP: RANGE: SEC	WSKI CTION:	HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SECTION:		JRFACE		VATION:		N.A
			••													
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -									1	HSA	
					2 -		SILTY CLAY, dark brown, mois stiff	t, trac	e sand & gravel, FILL, very		_					
	SS 1	12	M 22	4-5-6-5 (11)	- 3 -					CL	3.5					
	SS 2	12	M 24	3-5-4-6 (9)	- 4 - - 5-						2.75					
					6 -		5.5 SILTY CLAY, brown mottled, m	– – – oist, ti	ace sand, very stiff		-					
					- 7-					CL						
$\setminus /$	SS 3	24	M 16	7-11-13-1 (24)	3_ 9 -		Hard				4.5					
					10		10.0 End of Bor	ina at	10.0 ft.							
							Lite of Bot	y al								
							WATER LEVEL & CA	VE-I	N OBSERVATION DA	ATA						
$\overline{\nabla}$	WA	TER I	ENC	DUNTERED	DURIN	NG D	DRILLING: NE	R	CAVE - IN DEPTH AT C	COMPLETIO	N:	NMR				WET DRY
Ā	WA	TERI	EVE	L AT COM	PLETIO	N:	NMR	Ē	CAVE - IN DEPTH AFT	ER 0 HOUR	S:	NMR				WET DRY
NOT							oresent the approximate boundary; gradu surement Recorded	al tran	ition between in-situ soil layers	s should be exp	ected.					

OEPJ	SCONSIN.	WI [	ept.	of Trans	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR76
TANK A	OF TRANSPOR	Mad OJECT NA	lison	, WI 5370	4	4	WISDOT STRUCTURE ID:	CONCLITANT DDO JECT NO.			AGE NO:			li a	1 of 1
			AME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:	10.		ATITUDE				
	DWAYN						ORILLING CONTRACTOR:  Giles  CREW CHIEF:	DRILLING CONTRACTOR PROJECT N	NO:		ORTHIN	3660	04.56	3	ASTING: 602580.755
	E START				11/19/	14	.OGGED BY:	HOLE SIZE:			ORIZON			IVE	WCCS
	INTY:				11/19/	14	GILES OG QC BY:	HAMMER TYPE:	4	in			VATION:		
				OFFSET	Ozauk	<b>96</b>	C. Wierzchowski  TOWNSHIP: RANGE: SECTION:		1/4 SECTION:		JRFACE				NA
20	<u>56+5(</u>	OMequ	onC		50'	<u>Lt  </u>									
1 G A A A	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Desc and Geological C Each Major Unit / C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	. 1 1.0						ŀ	-ISA	
	SS 1	9	M 24	4-3-4-3 (7)	- 2 -		SILTY CLAY, brown, moist, with sand	& gravel, FILL, very stiff		2.25					
			18		- 3 -				CL						
	SS 2	18	М	2-3-4-6 (7)	_ _ 5-		5.0 SILTY CLAY, brown mottled, moist, tra	ace gravel, very stiff	_	2.5					
					- 6 -										
					- 7 -				CL						
	SS 3	24	M 18	5-8-12-19 (20)			10.0			4.0					
ľ		1		ı	<del>' 10</del>		End of Boring at 7	10.0 ft.	l						ı
<u> </u>							WATER LEVEL A CONTENT	LODOEDUATIONE	T 4						
	7 147	ATED	ENO.	الالتحديد	ר רו וביי	10.5	WATER LEVEL & CAVE-IN			NI.	NIN 4D				WFT □
<b>⊿</b>				OUNTERE				CAVE IN DEPTH AT CO			NMR				WET  DRY  WET  DRY  DRY
_				L AT COM			NMR resent the approximate boundary; gradual trans.	CAVE - IN DEPTH AFTER			NMR				DRY 🗍
							resent the approximate boundary, gradual trans. curement Recorded	aon between in-situ soli layels si	nound be exp	ooleu.					

OEPW	SCONSIN. 30E	WI E	ept. Kin	of Trans	portatio	n	WISDOT PROJECT ID:		1229-04-01					G ID	):	SR77
TA/IC	DOT DO	Mad OJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:		CONSULTANT PROJECT NO:			AGE NO			112	1 of 1
	DWAY N		uvic.		I-4	13	CONSULTANT:  DRILLING CONTRACTOR:		DRILLING CONTRACTOR PROJE	CT NO:		ORTHIN				ASTING:
	E STAR						Gil	les	DRILL RIG:	CT NO.			3663 NATE SY	387.43	7	602630.735
	E COMP				11/18/	14	.OGGED BY:	hip	HOLE SIZE:				ITAL DA		lv	WCCS ERTICAL DATUM:
	INTY:				11/18/	14	GIL .OG QC BY:	ES	HAMMER TYPE:	4	in			VATION:		
		OMequ	onD	OFFSET	Ozauk	e	C. Wierzchow:	SKI ON:	1/4 SECTION:	1/4 1/4 SECTION			ELEVA			NA
SAMPLETOR	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock I and Geologic Each Major Uni	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						11 7 7 7	2: 8" TOPSOIL 0.7 SILTY CLAY, brown mottled, mois	st, tr	ace sand & gravel, very						HSA	
	SS 1	18	M 14	3-3-4-3 (7)	- 2-		stiff				2.75					
	SS 2	24	M 19	3-5-6-7 (11)	- 4 -					CL	3.0					
					- 6 - - 7 -											
	SS 3	24	M 21	4-4-5-5 (9)	- 9 -		8.0 SILTY SAND, gray/brown, moist,	loos	е	SM						
01 OZAUKEE CO.GPJ 143 8/21/15					- 11 -		310.0 SILTY CLAY, gray, moist, trace fi	ne s	and							
DR TO STH 60/GINT/1229-04					— 13 -		Stiff			CL						
43 - SILVERSPRING L	SS 4	24	M 22	4-5-5-6 (10)	- 14 -		A-6(8)				1.75	31	17			
1-104-01-					<del>† 15</del>		End of Borine	g at	15.0 ft.		'					
43/1229							WATER LEVEL & CAVI	E-II	N OBSERVATION D	DATA						
<u> </u>		ATER	ENCC	DUNTERE	D DURIN	IG D			CAVE - IN DEPTH AT		N:	NMR				WET DRY
ESIOZAI		ATER	LEVE	L AT COM	PLETIO	N:		Ī	CAVE - IN DEPTH AF	TER 0 HOUF	RS:	NMR				WET  DRY
NC							resent the approximate boundary; gradual is	trans	ition between in-situ soil laye	rs should be ex	pected.					
S		∠) N⊏ = l	vot ⊨n	ισυπτerea; Ν	ııvır = No	vieas	urement Recorded									

OEDM AOIT	3502	)ept. 2 Kin	of Transp Sman Blv	portatio d.	on _	WISDOT PROJECT ID:	1229-04-01					G ID:	SR7
OF TRANS	Mad	ison	, WI 5370	4	1	WISDOT STRUCTURE ID:	CONICHI TANT DEGLECT NO.			AGE NO:			1 of
WISDOT PRO		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGITUDE:
ROADWAY N						RILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3768	22.502	602377.34
DATE START				11/21/	14	REW CHIEF: Chip	DRILL RIG:				ATE SY		wco
DATE COMP	LETED:			11/21/	14	OGGED BY:	HOLE SIZE:	4 i	n		TAL DA		VERTICAL DATUM:
COUNTY:				Ozauk	ee	OG QC BY:  C. Wierzchowski	HAMMER TYPE:					VATION:	N
11+50H	lighla	ndW	OFFSET	20'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4 SEC	CTION:	SU	JRFACE	ELEVA.	FION:	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strengtn Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes
					71 17 17 77 1	10" TOPSOIL						H	SA
				<u> </u>		0.8 SILTY CLAY, dark brown, moist, with	fine organics, very stiff						
SS 1	12	M 20	3-4-4-4 (8)	- 2 -				:	2.25				
				- 3 -		Stiff							
88		N4	3-3-3-6										
SS 2	12	M 29	(6)	- 4 -		A-7		CL	1.5	49	30		
<u> </u>				<del>-</del> 5-									
				- 6 -									
				- 7 -									
				8 -		8.0							
						SILTY CLAY, brown, moist, trace san	d & gravel, hard						
SS 3	24	M 16	8-13-21-3 (34)	2_ 9 -				CL	4.5				
				10		10.0 End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-II	N OBSEDI/ATION DATA						
∑ w	ATER	FNCC	DUNTERED	אופווט כ	IC D		CAVE - IN DEPTH AT COMPLI	FTION	J·	NMR			WET DRY
			L AT COM			NMR I	CAVE - IN DEPTH AFTER 0 H			NMR			DRY WET DRY
- 1	1) Stratifi	cation	lines between	n soil type	es repr	resent the approximate boundary; gradual trans							DRY

OEPA	SCONSIN. 30 E			of Transpension		on	WISDOT PROJECT ID:	1229-04-01				G ID:		SR79
HTTMORY	OF TRANSPOR	Mad	ison	, WI 5370			WISDOT STRUCTURE ID:  CONSULTANT:	CONSULTANT PROJECT NO:		PAGE NO:			LONGITURE	1 of 1
		OJECT NA	ME:		I-	43							LONGITUDE:	
	ADWAYN						DRILLING CONTRACTOR:  Giles  CREW CHIEF:	DRILLING CONTRACTOR PROJECT NO:		NORTHIN	3767	61.024	EASTING:	602930
	E START				11/21/	14	Chip LOGGED BY:	DRILL RIG: HOLE SIZE:		COORDIN			VERTICAL DA	wccs
	JNTY:	LETED.			11/21/	14	GILES LOG QC BY:		in	STREAMB			VERTICAL DA	I OW.
		Highla			Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4 SECTION:		SURFACE				NA
$\vdash^1$	7+03	Highla	ndE		<u>5'</u>	Rt								
F 1000	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	Origin for ✓	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	otes
						- 1	0.3 Crushed stone 4" SHOULDER GRAV	EL GW-GI				H	SA	
	SS 1	12	M 8	3-3-3-5 (6)	- 1 -		SILTY CLAY, brown, moist, with sand	& gravel, FILL, medium						
	SS 2	18	M 21	2-3-3-3 (6)	- 3 - - 4 - - 5-		SILTY CLAY, dark brown, moist, with FILL, medium	sand & gravel, POSSIBLE	0.75	5				
	SS 3	24	M 15	3-6-6-9 (12)	- 6 - - 7 - - 8 -		Stiff	CL						
	SS 4	24	M 12	7-10-10-1 (20)			Hard	CL	4.5					
	SS 5	24	M 18	5-7-9-9 (16)	- 11 - - 12 - - 13 -		Very stiff  13.0  SILTY CLAY, brown mottled, moist, tr.		2.75	5				
2ZAUKEE CO.GPJ 143 8/21/15	SS 6	24	M 15	5-7-9-10 (16)	- 14 - 15		SILTY CLAY, DIOWITHIOLIEG, HOISI, II.	ace sanu & graver, naru	4.5					
OR TO STH 60/GIN 1/1228-04-01	SS 7	24	M 15	6-9-11-14 (20)	16 - - 17 - - 18 -			CL	4.5					
01- I-43 - SILVERSPRING L	SS 8	24	M 20	3-7-9-11 (16)			Very stiff 20.0	20.04	3.5					
1229-04							End of Boring at							
Kee.143.1	7 \141	ΔΤΕΡΙ	ENIC	DUNTERED	ייםווח ו	NG F	WATER LEVEL & CAVE-INDRILLING: NE	CAVE - IN DEPTH AT COMPLETION	NI:	NMR				WET []
S'OZAUK Z	_			L AT COM			NMR I	CAVE - IN DEPTH AT COMPLETIC		NMR				WET DRY DRY DRY DRY DRY
<b>≝</b>							oresent the approximate boundary; gradual trans							URY []
							surement Recorded							

- OEE	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				DRIN	G IE	):	SR80
MATHERS	OF TRANSPOR	Mad	lison,	, WI 53704			WISDOT STRUCTURE ID	D:				PAGE				1 of 1
		OJECT NA	ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATIT				ONGITUDE:
RO	ADWAY N	IAME:				D	RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJE	ECT NO:				808.4	51 E	ASTING: <b>603727.29</b> 8
	TE STAR				11/21/	14	REW CHIEF:	Chip	DRILL RIG:				RDINATE S			wccs
DAT	TE COMP	LETED:			11/21/	14	OGGED BY:	GILES	HOLE SIZE:		4 in		ZONTAL D	ATUM:	V	ERTICAL DATUM:
COL	JNTY:			(	Ozauk	e Lo	DG QC BY:	/ierzchowski	HAMMER TYPE:			STRE	AMBED EL	EVATION	:	N/
STA	TION <b>5+00</b>	lighla	ndW	OFFSET	12'	Lt T	DWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	ΓΙΟΝ:	SURF	ACE ELEV	ATION:		
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and	oil / Rock Des d Geological ( Major Unit / (	Origin for		USCS / AASHTO Strength Op	(tsf)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	12	M 18	2-3-4-5 (7)	- 2 -		12" TOPSOIL  1.0  SILTY CLAY, brown r	nottled, moist, tr	ace sand, very stiff		2	.5			HSA	
	SS 2	24	M 17	3-3-6-6 (9)	- 4 -						2	.5				
01 OZAUKEE CO.GPJ 143 821/15					- 6 -						CL					
SOUNTESOCAUCEELLANTZB-04-01 - 1-43 - SIVJEKSPRING DR. TO STH 80/GIN NTZB-04-01 OZAUKEE OD GPJ 1-43 8/2/1/5  N	SS 3	24	M 22	3-6-8-9 (14)	- 9 -		10.0				3	.5				
101-143					10		E	End of Boring at	10.0 ft.							
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	& CA\/E !!	N OBSERVATION I	<b>ΛΤ</b> Λ						
Z KEN 53.	7 \ \	٨ΤΕΡ	ENICC	UNTERED	י טו וטיי	IC D		L & CAVE-II	CAVE - IN DEPTH AT		TION	NN	/D			WET F
Stozauk Z	_							==   TEE	-							WET DRY DRY DRY DRY
NA SE				L AT COMF			NMR esent the approximate bound	dany gradual trans	CAVE - IN DEPTH AF			NN ed	II.Z			DRY [
700							esent the approximate bound irement Recorded	ıaıy, yrauudi iidNS	nuon petwe <del>e</del> n in-situ soii läyt	o o iouiu Di	- expec	σu.				

. OEF	ISCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISE	OOT PROJECT	ID:		1229-04-01					RIN	G IE	): 	SR81
MATINE	OFTRANSION	Mad	ison	, WI 53704				OOT STRUCTU	RE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:				ONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTI	RACTOR:	Giles	s	RILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	376	761.		ASTING: 603927.012
	TE START				11/21/	14	CREW CHIEF:		Chip	р	RILL RIG:					IATE SY			wccs
	TE COMP	LETED:			11/21/	14	LOGGED BY:		GILES	S	OLE SIZE:		4	in		TAL DA			ERTICAL DATUM:
	UNTY:				Ozauk	ee	LOG QC BY:		. Wierzchowsk	(i	AMMER TYPE:					ED ELE		l:	NA
ST	ATION <b>27+00</b> 1	Highla	ndE	OFFSET		0	FOWNSHIP:	RANGE:	SECTION:	i:	1/4 SECTION:	1/4 1/4 S	ECTION:	SI	JRFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Ea	Soil / Rock De and Geological ach Major Unit /	Orig	gin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							Crushe	ed stone 10	" SHOULDER GRA	AVE	L		0)4/ 01					HSA	
							0.8					•	GW-GN						
	SS 1	12	M 6	7-2-2-4 (4)	- 2 -		SAND very lo		., brown, moist, wit	th cru	ushed asphalt, FILL,	(	GW-GN	1					
					+ 3 -		SILTY	CLAY, brov	wn mottled, moist,	trace	e sand & gravel, very								
	SS 2	24	M 15	3-4-5-6 (9)	- 4 - - 5- - 6 - - 7 -		stiff							3.25					
DOUNTESIOZAUKEEI 43/1229-04-01 - 143 - SILVERSPRING DR TO STH 80/GINTN1228-04-01 OZAUKEE CO. GPJ 143 82/1/5  Z   J_A   J_A	SS 3	24	M 19 M 18	5-6-10-12 (16) 5-7-10-12 (17)	- 11 - - 12 - - 13 -		15.0						CL	3.25					
01 - 143	<u> </u>				15	V/	15.0		End of Boring a	at 15.	.0 ft.								
1229-04							1875	TCD : C				A T A							
EE/143/	7 14,	٨Τ٢٥	ENIO		י רו וריי	VIC 5				_	OBSERVATION D		LETIC	NI.	NIN 4D				WFT □
SYOZAUKEE	_			DUNTERED L AT COMF				NE		_	CAVE - IN DEPTH AT CAVE - IN DEPTH AFT				NMR NMR				WET  DRY  WET  DRY  DRY
N NTES	-						NMR present the ap	proximate ho	oundary: gradual trai	-	on between in-situ soil layer				NIVIK				DRY 🗍
JOS:				countered; NN					January, graduar irai	. 131110	Journal III-alia soli layel	J JI IOUIL	. 20 GAL	JUIUU.					

MABO.	SCONSIN. 30E	WI E	ept. Kin	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:	1229-04-01					G ID	:	SR83
TA II	OF TRANS	Mad OJECT NA	ison	, WI 53704	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			- In-	1 of 1
	ADWAY N		uvic.		J-4	3	ONSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO	)·		ORTHIN				ASTING:
	E STAR						Giles REW CHIEF:	DRILL RIG:	J.		OORDIN	377	386.2	6 ြ	603357.772
	E COMP				12/09/1	4	Chip	HOLE SIZE:			ORIZON'			\v	WCCS ERTICAL DATUM:
	JNTY:	LETED.			12/09/1	4	GILES OG QC BY:	HAMMER TYPE:	4 i	n			VATION:	ľ	
		Highla	ndA	OFFSET	Ozauke	e	C. Wierzchowski  OWNSHIP: RANGE: SECTION:		1/4 SECTION:		JRFACE				NA
												(			
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strengtn Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -	7117 77 77 74 77	18" TOPSOIL						F	-ISA	
					_ '	// \\	1.5	:414							
$\mathbb{N}$					2	//	SILTY CLAY, brown mottled, moist, w stiff	in roots, trace sand, very							
IX	SS 1	18	M 18	3-5-7-9 (12)						3.5					
/	'		'	(12)	3										
( )					-										
					<del> </del> 4		No roots								
$\mathbb{N}$															
IX	SS 2	24	M 19	5-6-9-9 (15)	5					2.75					
$/ \setminus$															
					+ 6 →										
					7										
					+ 8 -	//,	Pushed rock		CL						
$\left  \cdot \right $	60		N.4	0.0.40.40	,										
	SS 3	12	17	9-9-12-12 (21)	9	//									
$/ \setminus$						//.									
8/21/15					10										
F2						//									
EE 00.G					11	//									
OZAUK						//.									
229-04-0					12 -										
80/GINT/1229-						//									
TO STH 6					+ 13 -	//	Gray								
NG DR	SS	24	М	4-4-6-6	- 14 -	//				3.0					
VERSPR	4	24	19	(10)	14					J.U					
143 - SIL					15	//	15.0								
- 10-401					13		End of Boring at	15.0 ft.							
=11-43/122							WATER LEVEL & CAVE-II								
DZAUKEE				DUNTERED				CAVE - IN DEPTH AT CO			NMR				WET DRY WET WET
JUNTIES/OZ	- 1			L AT COM			NMR resent the approximate boundary; gradual trans	CAVE - IN DEPTH AFTER			NMR				WET □ DRY □
100/1							esent the approximate boundary, gradual trans urement Recorded	illori between in-silu suii layers sn	оши ве ехре	oi <del>c</del> u.					

430.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>D</b> :	SR84
ARTHMON	OF TRANSPOR	Mad	lison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:	Lookou Takit Doo i			AGE NO				1 of 1
		DJECT NA	MÉ:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:	ST NO:		ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:  Giles REW CHIEF:	DRILLING CONTRACTOR PROJECT	NO:		OORDIN	3779	985.0	89	EASTING: 603321.615
	E START				12/09/	14	Chip OGGED BY:	HOLE SIZE:			HORIZON			I.	WCCS
	JNTY:	LETED:			12/09/	14	GILES OG QC BY:	HAMMER TYPE:	4	in	TREAME				PERTICAL DATOM.
	TION			OFFSET	Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE			N.	NA
217	6+001	Highla	ndA	OT GET		0	TOWEL. SECTION.	III OLOTION.	III III OLOTION.		T	I	1	1	T
L	SAMPLE ITPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						<u>, 11, 7</u>	6" TOPSOIL							HSA	Δ.
						<u>\                                    </u>	0.5 SILTY CLAY, brown mottled, moist, t	ace sand & gravel hard		-					
							OLIT OLIT, BIOWITHOLICE, HOISE, E	ace saila a giavei, ilaia							
$\left  \cdot \right $					- 1 -										
	SS 1	18	M 18	3-5-7-7 (12)						4.5					
					- 2 -										
					- 3 -		W		CL						
							Very stiff								
07100															
OZNOREE CO.OLD	SS 2	24	M 15	3-5-7-9 (12)	- 4 -					3.0					
W701040-87711															
200															
2			L	<u> </u>		<u>//</u>	5.0				$\perp$	L	L		
LVERSI					-5		End of Boring a	5.0 ft.							
	.						WATER LEVEL & CAVE-I								
Z Zyone				DUNTERED				CAVE - IN DEPTH AT			NMR				WET □ DRY □ WET □
NO.				L AT COMF			NMR resent the approximate boundary; gradual tran	CAVE - IN DEPTH AFT			NMR				WET  DRY
140							resent the approximate boundary; gradual tran urement Recorded	มแบบ มะเพะยา เก-รเน รดแ iayer	s sriouia be exp	ectea	•				

OEPM OEPM	CONSIN. 30	WI E	Dept. 2 Kin	of Trans	portation	on		PROJECT ID:	1229-04-01				ING	ID:	SR85
TANCO T	FTRANSTO	Mad	lison	, WI 5370	4			STRUCTURE ID:	CONCILITANT DDG IFOT NO			E NO:			1 of 1
	DOT PRO	OJECT NA	AIVIE:		l-	43	CONSULTANT:  DRILLING CONTRACT	TOP:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJ	IECT NO:		TTUDE:			LONGITUDE: EASTING:
							CREW CHIEF:	Giles	DRILL RIG:	JECT NO:		3	3 <b>75336</b> TE SYSTE	3.857	603313.24
	STAR	LETED:			12/09/	14	LOGGED BY:	Chip	HOLE SIZE:				AL DATUM		WCCS VERTICAL DATUM:
	NTY:	LETED.			12/09/	14	LOG QC BY:	GILES	HAMMER TYPE:	4 ir	1		D ELEVAT		VERTICAL DATOW.
				OFFSET	Ozauk	ee	TOWNSHIP:	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:			LEVATIO		NA
215	0+00	Highla	ndB		6.5'	Rt									
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders Drilling Method	
	SS 1	12	M 17	2-3-4-5 (7)	- 1 -		·/ <sub>2</sub> 0.6	DIL AY, brown, moist, trace san	d, with gravel, very stiff	2	2.5			HS	5A
	SS 2	24	M 18	3-4-9-10 (13)	3 -		Hard			2	1.5				
	SS 3	24	M 18	5-7-8-9 (15)	- 6 - - 7 - 8 - - 9 -		Gray			CL	4.5				
H 80\GINT\1229-04-01 OZAUKEE CO.GPJ 143 8/21/15					- 11 - - 12 - - 13 -		Vanyatiff								
143 - SILVERSPRING DR TO STH	SS 4	24	M 22	4-5-6-9 (11)	- 14 -		Very stiff			2	2.5				
9-04-01					13			End of Boring at	15.0 ft.						
1143/122							WATE	R LEVEL & CAVE-II	N OBSERVATION	DATA					
Z AUKEEN		ATER	ENC	DUNTERE	DURII	NG E	RILLING: N	E 💆	CAVE - IN DEPTH A	T COMPLETION	: N	IMR			WET DRY
TIES/OZ				L AT COM			NMR	■	CAVE - IN DEPTH AI			MR			WET  DRY
NO							present the approxi surement Recorde	ximate boundary; gradual trans ed	sition between in-situ soil lay	ers should be exped	ted.				

AND CONSIN			of Transpose		n	WISDOT PROJECT ID:		1229-04-01				ING	ID:	SR	87
OF TRANS	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:		LOONOUR TANT DOG :			E NO:			1 0	f 1
	ROJECT NA	AME:		I-4	13	ONSULTANT:		CONSULTANT PROJECT NO:	-07.110		ITUDE:			LONGITUDE:	
ROADWAY						RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJE	ECT NO:			37666	8.212	EASTING: 603359.0	<del>3</del> 06
DATE STA				12/09/1	14	REW CHIEF:	Chip	DRILL RIG:				TE SYST		WC	cs
DATE COM	MPLETED:			12/09/1	14	OGGED BY:	GILES	HOLE SIZE:	4 in			AL DATU		VERTICAL DATUM:	
COUNTY: STATION 2163+3	3Highla	ndB	OFFSET	Ozauke	e	OG QC BY:  C. Wierzo OWNSHIP: RANGE:	section:	HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SECTION:			LEVATIO			NA
					-			'							
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / R and Gec Each Majo	ock Des blogical C or Unit / C	rigin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes	
\ ss	12	M	2-4-6-6	- 1 -	<u> </u>	0.5 5.5" TOPSOIL SILTY CLAY, brown mottled	d, moist, tr	ace organics, very stiff	CI 2	.5			HS	SA	
1		24	(10)	_ 2 -					CL 2						
SS 2	24	M 16	4-7-7-12 (14)	3 - 4 -	//	3.0 SILTY CLAY, brown mottled	d, moist, tr	ace sand & gravel, hard	4	.5					
<u>/ \</u>				- 5 - 6 -											
√ ss		М	5-10-12-1	- 7 - - 8 -											
3	24	18	(22)	9 - 10 - - 11 -					4	.5					
				- 12 - 13 -											
SS 4	24	M 19	5-10-12-19 (22)	5 <sub>- 14</sub> -					4	.5					
				- 16 <i>-</i> - 17 <i>-</i>											
SS 5	24	M 18	4-5-6-7 (11)	- 18 - - 19 -		Gray, very stiff			3	.0					
				- 21 - - 22 -											
SS 6	3 24	M 19	5-6-9-10 (15)	23		Hard			4	.5					
/\ 0		19	(13)	-25 -26 -											
				27 -		000									
SS 7	24	M 20	7-8-9-10 (17)			Stiff			2	.0					
				30 -		End of WATER LEVEL & (	Boring at								
ΣV	WATER	FNC	OUNTERED	) DI IRIN	וט טו		JAVE-II	CAVE - IN DEPTH AT		NI	MR			WE	ET
			L AT COM			NMR	1854	CAVE - IN DEPTH AT			MR			DF WE	8Y       8Y
						resent the approximate boundary; gr								DF	.т Ц
						urement Recorded									

OEP.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>)</b> :	SR88
MATTHERS	OF TRANSPOR	Mad DJECT NA	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:	LOONOUR TANTE COO :			AGE NO:				1 of 1
	ADWAY N		AME:		I-	43	CONSULTANT:  DRILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:		ATITUDE				ONGITUDE:
	E START						Giles CREW CHIEF:	DRILL RIG:	CT NO.		COORDIN	3757	738.0	98	603128.379
	E COMP				12/05/	14	Chip	HOLE SIZE:			ORIZON			Ιv	WCCS /ERTICAL DATUM:
	JNTY:				12/05/	14	GILES	HAMMED TYPE:	4	in	TREAME				
STA	TION		10	OFFSET	Ozauk	Т	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		NA
218	4+001	lighla	nac		15'	Rt									
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1		11" TOPSOIL  10.9  SILTY CLAY, brown mottled, moist, t	race gravel, very stiff						HS#	A
	SS 1	18	M 24	3-3-5-7 (8)	- 2-				CL	3.0					
SPRING DR TO STH 60/GINTY1229-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 2	24	M 17	1-5-5-8 (10)	- 4 -		5.0	4508		4.0					
SILVERSF					3-		End of Boring a	t 5.0 ft.							
- I+3 - Si															
29-04-01															
=\1-43/122							WATER LEVEL & CAVE-								
ZAUKEE				DUNTERED				CAVE - IN DEPTH AT			NMR				WET DRY
NTIES/OZ				L AT COMF			NMR	CAVE - IN DEPTH AF			NMR				WET  DRY
NOON:							resent the approximate boundary; gradual trar urement Recorded	sition between in-situ soil layei	rs snould be exp	ected.	-				

OEPM	CONSIN.			of Transp sman Blv		on	WISDOT PROJE		1229-04-01					G ID	:	SR90
A CO	FTRANSIO		ison	, WI 5370			WISDOT STRUC	TURE ID:	CONCULTANT DDG 1507 11			AGE NO:			I	1 of 1
			ME:		I-	43			CONSULTANT PROJECT NO:	IECT NO.		ATITUDE				
	DWAY N						DRILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJ DRILL RIG:	JECT NO:			3769	40.35	9   -	ASTING: 603104.71
	E START				12/09/	14	OGGED BY:	Chip	HOLE SIZE:			OORDIN			l vr	WCCS ERTICAL DATUM:
	NTY:	LETED.			12/09/	14	OG QC BY:	GILES	HAMMER TYPE:	4	in			VATION:	VE	ENTICAL DATOW.
STAT	ΓΙΟΝ			OFFSET	Ozauk	ee T	OWNSHIP: RAN	C. Wierzchowski	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
216	6+00H	Highla	ndD		35'	Rt										
SAMPI F TYPF	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological C Each Major Unit / C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -	$\frac{1}{\sqrt{1-\lambda}}$	18" TOPSOIL 1, 1, 1, 1,5							ŀ	ISA	
$\bigvee$	SS	40	М	2-6-3-7	- 2 -		SILTY CLAY, b	rown, moist, trace grav	vel, POSSIBLE FILL, stiff	CL						
$\mathbb{N}$	1	12	28	(9)	- 3 -		3.0 SANDY SILT, I	prown, moist, with grav	el, stiff							
	SS		М	5-8-7-10	4 -					SM						
$\mathbb{N}$	2	24	17	(15)			6.0				2.0					
,					6 - 7 -		SILTY CLAY, b	prown, moist, trace san	d & gravel, stiff							
L					'8 -											
M	ss	12	М	8-10-14-1			Hard				4.5					
$\triangle$	3		15	(24)	10-											
					- 11 -											
					- 12 -											
					13 -		Gray, very stiff									
	SS 4	24	M 20	5-6-6-7 (12)	- 14 -		2.2,,,				3.0					
$\sim$				, ,	15-											
					- 16 -											
					- 17 -											
1	SS		N4	6-7-7-10	18 -					CL						
	5	24	17	(14)	19 -						3.75					
43 8/21/:					20-	1//										
0.GPJ 14					- 21 -	1//										
OKEE CO					- 22 -											
	SS	2.	М	6-6-11-8	23 -	1//					0.0					
N SERVICE SERV	6	24	20	(17)	- 24 -	1//					3.0					
					25-											
X 0					26 - 27 -	<u>//</u>										
SPKING					28											
	SS	24	М	5-6-6-10			Hard				4.5					
	7		21	(12)	30		30.0				7.5					
3/1229-04					30		WATERI	End of Boring at EVEL & CAVE-II	30.0 ft. N OBSERVATION	DATA						
¥ V	. WA	ATER I	ENCC	DUNTERE	DURII	NG D			CAVE - IN DEPTH A		N:	NMR				WET DRY
T Z		ATER I	LEVE	L AT COM	PLETIO	N:	NMR	Į.	CAVE - IN DEPTH AI	FTER 0 HOURS	S:	NMR				WET [
NO							resent the approximate urement Recorded	boundary; gradual trans	sition between in-situ soil lay	vers should be exp	ected.					
÷ L		,,,, <u> </u>	LII	Journal Gu, IV	140	uas	Jillolik i koddiucu									

Meconsin	WI [	ept.	of Trans	portatio	n	WISDOT PROJECT ID:		1229-04-01					G ID	):	SR92
OFTRANS	Mad	lison	, WI 5370	4		WISDOT STRUCTURE ID:					AGE NO				1 of 1
WISDOT PR		ME:		1-4	3	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY							iles	DRILLING CONTRACTOR PROJECT NO	:		ORTHIN	387€	10.27	77	ASTING: <b>601728.142</b>
DATE STAR				12/03/1	4		hip	DRILL RIG:			OORDIN			1	wccs
DATE COMP	PLETED:			12/03/1	4		ES	HOLE SIZE:	4	l in	ORIZON				ERTICAL DATUM:
COUNTY:				Ozauke	e	.og qc by: C. Wierzchow	/ski	HAMMER TYPE:					VATION:		NA
STATION 25	0+00C	THC	OFFSET	10' F	₹t	FOWNSHIP: RANGE: SECT	ION:	1/4 SECTION: 1/4 1	4 SECTION	: S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologic Each Major Un	cal (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						6" HMA								HSA	A
AUGE BC	R <sub>12</sub>	W 8		- 1 -		1.5 SILTY CLAY, dark brown, moist,	with	cond & group! Ell L. bard	GW						
SS 1	18	M 11	8-9-8-8 (17)	- 2 -		SILTI CLAT, dark blown, moist,	with	Salid & gravel, FileE, Haid		4.5					
COUNTEROVARIACE ASSIZES GARDEN 143 - SILVERSPRING DR TO SHI GOLDNING ZEA OF GAS 143 827/15  SO ZEE ZEA ZEA ZEA ZEA ZEA ZEA ZEA ZEA ZEA	24	M 9	5-19-5-6 (24)	4 -		Very stiff			CL	3.0					
SILVERS	1	I		<del>- 6 - 1</del>	//	∕.[6.0 End of Borii	ng a	6.0 ft.							1
4-01 - 1-43															
3/1229-0						WATER LEVEL & CAV	/Ε-II	N OBSERVATION DAT	Α						
Ã	ATER	ENC	DUNTERE	D DURIN	G D			CAVE - IN DEPTH AT COM		DN:	NMR				WET  DRY
syozan W			L AT COM			NMR		CAVE - IN DEPTH AFTER			NMR				WET DRY
NOTES:	1) Stratifi	cation	lines betwee	n soil type:	s rep	resent the approximate boundary; gradual curement Recorded	tran	l							

OED.	ISCONSIN.	WI [	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	SR93
ARTIME	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:					AGE NO				1 of 1
		OJECT NA	ME:		Į-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N							Giles	DRILLING CONTRACTOR PROJEC	T NO:		ORTHIN	3876	31.57		ASTING: <b>602227.945</b>
	TE STAR				12/01/	14		Chip				OORDIN				wccs
	TE COMP	LETED:			12/01/	14		ILES		4	in	ORIZON				ERTICAL DATUM:
	UNTY:				Ozauk	ee	.og QC BY: <b>C. Wierzch</b>	wski				TREAME			:	NA
ST	ATION <b>25</b> !	5+00C	тнс	OFFSET	6'	Lt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECTION	S	URFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						7/1/	SILTY CLAY, brown, moist, FIL	LL 11"	TOPSOIL						HSA	N.
						7 7 7	0.9									
	SS 1	12	M 8	4-4-13-5 (17)	- 2		SAND & GRAVEL, brown, moi:	st, trac	e silt, FILL, stiff	GW-G	2.0					
\					+ 3 -		12" HMA									
	2 19 (12)				- 4 · 5 - 6 · 6 · 7 · 6		4.0  SILTY CLAY, brown, moist, wit	th sand	l & gravel, FILL, very stiff	CL	3.5					
	SS 6 M 2-3-3-5 - 9						SILT, black, moist, with organic									
SILVERSPRING DR TO STH 80/GINT/1229-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 4 24 M 4-6-7-8 (13) - 14						SILTY CLAY, brown mottled, n	noist, ti	race gravel, very stiff	CL	3.5					
3 - SILVERS	-		13	(13)			1.50									
OUNTIES/OZAUKEE/143/1229.04.01 - 143 -	V				15	<u> </u>	15.0 End of Bo	ring at	15.0 ft.		1					
3/1229-04							WATER LEVEL & CA	\/F_I	N OBSERVATION D	ΔΤΔ						
UKEE\143	7 \_\_\	ATFR	FNCC	DUNTERED	DHDH	NG D			CAVE - IN DEPTH AT O		N.	NMR				WET □ DRY □
SYOZAUK				L AT COMP			NMR		CAVE - IN DEPTH AT			NMR				DRY ☐ WET ☐ DRY ☐
N JONATES							resent the approximate boundary; gradu	ual tran								DRY [
00):							urement Recorded	*								

OED,	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	SR94
HIMES	OF TRANS	Mad DJECT NA	lison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:  CONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			1.	1 of 1
	ADWAY N		AIVIE:		I-	43	CONSULTANT:  DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECTINO:	FCT NO:		NORTHIN				EASTING:
	TE START						Gile CREW CHIEF:	DRILL RIG:	201110.		COORDIN	387€	616.1	78	603228.164
	TE COMP				12/01/	14	Chi	HOLE SIZE:			IORIZON			Į,	WCCS /ERTICAL DATUM:
	JNTY:				12/01/	14	GILE:	HAMMER TYPE:	4	in	TREAME				
STA	TION	5+00C		OFFSET	Ozauk	- 1	C. Wierzchowsk TOWNSHIP: RANGE: SECTION	i   1/4 SECTION:	1/4 1/4 SECTION:	s	URFACE	ELEVA	TION:		NA
┢	268	+00C	IHC		20'	Rt									
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							12" BASE COURSE		GW-GN	4				HS#	A
	SS 1	0	M 16	3-3-3-5 (6)	- 2		SILTY CLAY, brown mottled, moist,	with gravel, medium	CL						
SPRING DR TO STH 80/GINT/1228-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 2	24	M 17	3-5-7-9 (12)	- 4		5.0			4.0					
ILVERS					<del>5 -</del>		End of Boring	at 5.0 ft.							
- 143 - S															
29-04-01															
E/143/12	,						WATER LEVEL & CAVE								
ZAUKEE				DUNTERED				_			NMR				WET DRY WET
INTIES/OZ				L AT COMP			NMR present the approximate boundary; gradual tra	E ONCE HUBERTHAN			NMR				WET [
700							present the approximate boundary; graduai tra surement Recorded	nsuon between in-situ soli läyt	ers smound be exp	recied.	•				

Ago.	SCONSIN.	WI E	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	):	SR95
TATION .	OF TRANSPORT	Mad	ison	, WI 53704	Ĭ.		WISDOT STRUCTURE ID:  CONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			- In-	1 of 1
	ADWAY N		WE:		I-	43	DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	CT NO:		IORTHIN				ASTING:
	TE START						Giles CREW CHIEF:	DRILL RIG:	71 NO.		OORDIN	3876	574.17	75	603227.549
	TE COMP				12/01/	14	Chip LOGGED BY:	HOLE SIZE:			IORIZON			Ιv	WCCS ERTICAL DATUM:
	UNTY:				12/01/	14	GILES LOG QC BY:	HAMMER TYPE:	4	in	TREAME				ETTTO, LE BYTTOM.
				OFFSET	Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE			-	NA
$\vdash$	ATION <b>26</b>	5+00C	THC		38'	Lt									T
	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
							12" BASE COURSE		GW-GN	4				HSA	
	SS 1	6	M 6	2-3-3-4 (6)	- 2 -		SILTY SAND & GRAVEL, brown, moi		GM						
SPRING DR. TO STH 60\GINT1229-04-01 OZAUKEE CO.GPJ. 143 8/21/15	SS 2	18	M 16	4-4-6-7 (10)	- 4 -		SILTY CLAY, brown, moist, with grav stiff  5.0		CL	3.5					
ILVERSI					3		End of Boring a	5.0 ft.							
143 - S															
9-04-01															
143/122							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
Z AUKEEN		ATER	ENCC	DUNTERED	DURII	NG E	DRILLING: NE	CAVE - IN DEPTH AT	COMPLETIC	N:	NMR				WET ☐ DRY ☐
TIES/OZ	- 1			L AT COMP			NMR	CAVE - IN DEPTH AFT			NMR				WET  DRY
NOON:							present the approximate boundary; gradual trans surement Recorded	sition between in-situ soil layer	s should be exp	ected.					

Jago .	SCONSIN.	WI [	Dept.	of Trans	portati	on	WISDO	OT PROJECT ID:		1229-	04-01				ВОЕ		G II	<b>)</b> :	SR96
MATINETA	OFTRANSPOR	Mad	lison	, WI 5370	vu. 14			OT STRUCTURE ID:							AGE NO				1 of 1
		OJECT NA	ME:		Į.	-43	CONSULTANT:			CONSULTANT PRO					ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTR	ACTOR:	Giles	DRILLING CONTRA	CTOR PROJE	ECT NO:			ORTHIN	387€	656.4	78 E	ASTING: <b>603727.765</b>
	E STAR				12/02	/14	CREW CHIEF:		Chip	DRILL RIG:					OORDIN				wccs
	E COMP	LETED:			12/02	/14	LOGGED BY:		GILES	HOLE SIZE:			4	in	ORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	LOG QC BY:		rzchowski	HAMMER TYPE:					TREAME			l:	NA
STA	TION <b>27</b> (	0+00C	THC	OFFSET	15'	Lt	TOWNSHIP:	RANGE:	SECTION:	1/4 SEC	TION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	/ Rock Des Seological ( lajor Unit / (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							10" HM	Α										HSA	
¥	UGE BC	R 2	5				0.8 2" BAS	E COURSE					GW						
							SAND 8	& GRAVEL, brow	n, moist, FILL	., medium dense	•								
	SS 1	12	M 5	6-8-6-5 (14)	_ 2							G	W-GI	м					
	SS 2	12	M 20	3-4-5-5 (9)	- 4		4.0	CLAY, brown mot	ttled. moist. tr	ace gravel, stiff				- 1.5					
				(3)			5.0						CL						
		•			<del>' 5</del>		, 1	En	d of Boring at	5.0 ft.									
_	7				<b>.</b>			TER LEVEL 8											\MET F
Ž							DRILLING:	NE		CAVE - IN D					NMR				WET  DRY  WET
7				L AT COM			NMR			CAVE - IN D					NMR				WET _ DRY _
N							present the app surement Reco	roximate boundary rded	r; gradual trans	sition between in-s	situ soil laye	ers should i	pe ex	pected.					

OFF WISCO	NSIN. JOE	WI D	ept. Kin	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	):	SR97
ANO OF THE	ANNER	Mad	ison	, WI 53704	į.		WISDOT STRUCTURE ID:	CONCULTANT DDG (FOT 110			AGE NO:			1.	1 of 1
		JECT NA	ME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:	7.110		ATITUDE				ONGITUDE:
	VAY NA						DRILLING CONTRACTOR:  Giles	DRILLING CONTRACTOR PROJEC	JI NO:			3877	21.72	3	ASTING: 603064.228
	COMPLI				12/01/	14	CREW CHIEF: Chip LOGGED BY:	DRILL RIG:  HOLE SIZE:			OORDIN ORIZON			1.0	WCCS ERTICAL DATUM:
COUNT					12/01/	14	GILES LOG QC BY:	HAMMER TYPE:	4 i	n 📗			VATION:	V	ERTICAL DATOW.
		07CTI	-ICA	OFFSET	Ozauk	ee	C. Wierzchowski TOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				NA
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	6	M 19	2-1-2-3	- 1 -		7" TOPSOIL 0.6 SILTY CLAY, dark brown, moist, with	sand & gravel, FILL, stiff	CL	2.0				-ISA	
	SS 2	18	M 21	1-3-3-3 (6)	- 4 -		Very stiff			3.0					
					- 6 -				CL						
	SS 3	24	M 19	4-4-5-5 (9)	- 9 -		10.0			1.25					
OZAUKEE CO.GPO 143 82771					- 11 -	7 7 7	BURIED TOPSOIL								
O SIH 80/GIN IVIZZ8-04-01					- 12 - - 13 -		SILTY CLAY, red/brown mottled, moi	st, trace gravel, very stiff	CL						
143 - SILVERSHRING DK	SS 4	24	M	6-8-12-16 (20)	- 14 -		15.0			4.0					
- 10-4-01	_				15		End of Boring at	15.0 ft.				_			
43/1228							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
¥ V	WA	TER I	ENC	DUNTERED	DURIN	NG E	DRILLING: NE	CAVE - IN DEPTH AT	COMPLETION	l:	NMR				WET □ DRY □
T Z	WA	TER	EVE	L AT COMF	PLETIO	N:	NMR	CAVE - IN DEPTH AFT	TER 0 HOURS	: [	NMR				WET   DRY
NOT							present the approximate boundary; gradual trans surement Recorded	sition between in-situ soil layer	s should be expe	cted.					

WISDOT PROJECT NAME:  ROADWAY NAME:  DATE STARTED:  12/05/14  DATE COMPLETED:  12/05/14  COUNTY:  Ozaukee  STATION  2285+00CTHCA  DATE STATION  20 SOII / Rock Description  CONSULTANT PROJECT NO:  LATITUDE:  LATITUDE:  LONGITUDE:  LONG	B Wesconsin	WI D	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	):	SR98
SOUTH AND THE STATE OF THE STAT	OF TRANSPO	Madi	ison,	, WI 53704	ĭ.												1 of 1
Color   State   Color   Colo			ME:		I	43											
TOWNSHIP RANGE SECTION: THE PROPERTY OF SET TOPSOIL  STATUS OF SET T							Gi	iles		CT NO:				3888		73   [	ASTING: 602931.003
COUNTY   C					12/05/	14	C	hip									wccs
Station   Stat	DATE COMPLET	TED:			12/05/	14	OGGED BY:	.ES	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   18   M   2-3-4-5     SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet, Fill., very stiff   SILTY CLAY, dark brownblack motited, moist, trace sand & gravet					Ozauk	ee	C. Wierzchow	/ski								l:	NA
SS 18 M 2-3-4-5 2 18 M 22 3-3-4-5 5 5 TOPSOIL  SS 2 18 M 3-3-3-4-4 - 4 - 6	STATION <b>2285+0</b> 6	0СТН	ICA	OFFSET		0	OWNSHIP: RANGE: SECTI	ION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		
SS 18 M 2-3-4-5 7	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologic	cal C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 18 M 22 3-3-4-4 - 4 - 5 - 6 BURIED TOPSOIL 2.25		18		2-3-4-5 (7)	- 2 -		0.4 SILTY CLAY, dark brown/black m	nottle	d, moist, trace sand &			3.75				HSA	
BURIED TOPSOIL	SS 2	18			- 4 -						CL	2.25					
SS 3 24 M 3-4-7-10 9 4.5						71 17 17 · 21	BURIED TOPSOIL  7.0  SILTY CLAY, brown mottled, moi	— – i <del>st</del> , tr	ace gravel, very stiff to			_					
- LO 1989	SS 3	24						ng at	10.0 ft.		CL	4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA							WATER LEVEL & CAV	E-II	N OBSERVATION D	ATA							
y WATER ENCOUNTERED DURING DRILLING: NE B CAVE - IN DEPTH AT COMPLETION: NMR	∑ wan	TER E	NCC	UNTERED	DURIN	NG D	RILLING: NE	<u>≅</u>	CAVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
WATER LEVEL AT COMPLETION: NMR	<u>▼</u> WAT	TER L	EVE	L AT COMF	PLETIO	N:	NMR	Ī	CAVE - IN DEPTH AF	TER 0 I	HOUF	S:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES: 1) S							trans	ition between in-situ soil layer	rs should	be ex	pected.					

Made	S (	GCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>)</b> :	SR99
Martin   M	ARTHROAS	OF TRANS	Mad	lison	, WI 53704	u.			CONCILITANT PROJECTIVE						1.	
120914   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   120914   120915   1				MÉ:		I-4	43			OT NO						
12/09/14   12/09/14								Giles		I NO:			3865		59   <sup>E</sup>	603037.257
COUNTY   C						12/09/	14	Chip							Lv	
Description			LETED:			12/09/	14	GILES		4	in					PERTICAL DATOM:
SS   18   M   1-14-5   SILTY CLAY, trown motited, moist, trace gravel, stiff   SS   24   M   4-5-9-10   4-5   SILTY CLAY, trown motited, moist, trace gravel, stiff   SS   24   M   4-5-9-10   4-5   SILTY CLAY, trown motited, moist, trace gravel, stiff   SS   24   M   4-5-9-10   4-5   SILTY CLAY, trown motited, moist, trace gravel, stiff   SS   24   M   4-5-9-10   4-5   SILTY CLAY, trown motited, moist, trace gravel, stiff   SS   SS   SS   SS   SS   SS   SS					OFFSET	Ozauk	e	C. Wierzchowski		1/4 1/4 SECTION:						NA
## A5*TOPSOIL    SS   18   M   1-1-4-5     SS   24   M   4-5-9-10     SS   SS   SS   SS   SS   SS     SS   SS   SS   SS   SS   SS   SS     SS   SS   SS   SS   SS   SS   SS   SS     SS   SS   SS   SS   SS   SS   SS   SS   SS   SS     SS   SS   SS   SS   SS   SS   SS   SS   SS   SS   SS     SS   SS   SS   SS   SS   SS   SS   SS   SS   SS   SS   SS   SS     SS	01/	2262+	-00CT	HCB	OT GET		0	TOWAGE. GEOTION.	774 DESTION.	INT INT GEOTION.	ľ	I	I	Tion.		T
SS   18   M   1-1-4-5     1.5     1.5	Hay F H I I I I I I	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)			and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SSLTY CLAY, brown motited, moist, trace gravel, stiff    SS							7/1 /V	4.5" TOPSOIL							HSA	A
SS   18   M   1-1-4-5							11.	9								
SS 2 4 M 4-5-9-10 4 4.5  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.							7//	SILTY CLAY, brown mottled, moist, t	race gravel, stiff		1					
SS 2 4 M 4-5-9-10 4  SS 2 4 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.																
SS 2 4 M 4-5-9-10 4  SS 2 4 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	М															
SS 2 4 M 4-5-9-10 4  SS 2 4 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	$\mathbb{N}$															
SS 2 4 M 4-5-9-10 4  SS 2 4 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	$\mathbb{N}$					- 1 -										
SS 2 4 M 4-5-9-10 4  SS 2 4 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR OTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.	IVI															
SS 24 M 4-5-9-10 4  Hard  SS 24 M 4-5-9-10 4  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTE: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers about be expected.	V	SS	1.0	М	1-1-4-5						l					
SS 24 M 4-5-9-10 4  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE-IN DEPTH AT COMPLETION: NMR  CAVE-IN DEPTH AT CAVE IN D	I۱		18		(5)						1.5					
SS 24 M 4-5-9-10 4  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE-IN DEPTH AT COMPLETION: NMR  CAVE-IN DEPTH AT CAVE IN D	$\mathbb{I}\mathbb{N}$															
SS 24 M 4-5-9-10 4  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE-IN DEPTH AT COMPLETION: NMR  CAVE-IN DEPTH AT CAVE IN D	Ш															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DESERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE-IN DEPTH AFTER 0 HOURS: NMR  NOTE: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\ \cdot\ $					2 -										
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DESERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE-IN DEPTH AFTER 0 HOURS: NMR  NOTE: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DESERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE-IN DEPTH AFTER 0 HOURS: NMR  NOTE: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																
Hard    SS   24   M   4-5-9-10   4   4.5	Н					-										
Hard  SS 2 4 M 4-5-9-10 4 4.5  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN OBSERVATION: NMR OR DRY  WATER LEVEL AT COMPLETION: NMR CAVE-IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.										CL						
SS 24 M 4-5-9-10 4 4.5  End of Boring at 5.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER SCAVE-IN OBSERVATION DATA  WATER SCAVE-IN OBSERVATION DATA  WATER SCAVE-IN DEPTH AT COMPLETION: NMR  WET SOME CAVE-IN DEPTH AT COMPLETION: NMR  WATER SCAVE-IN DEPTH AT COMPLETION: NMR  ONTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 3		Hard								
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								Tiaru								
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\  \ $															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	8															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	11/															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	200		24			4 -					45					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	NOV.	2		18	(14)						1.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR WET DRY  WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	2															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR WET DRY  WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	677															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	B															
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			L					5.0			L		L	L	L	
▼       WATER ENCOUNTERED DURING DRILLING: NE       Image: Cave - IN DEPTH AT COMPLETION: NMR       WET DRY	Leres .					- 5		End of Boring a	t 5.0 ft.							
WATER ENCOUNTERED DURING DRILLING: NE   ☐ CAVE - IN DEPTH AT COMPLETION: NMR  ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR  ☐ WET DRY ☐  ☐ WATER LEVEL AT COMPLETION: NMR  ☐ WET DRY ☐  ☐ WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	2															
WATER ENCOUNTERED DURING DRILLING: NE   ☐ CAVE - IN DEPTH AT COMPLETION: NMR  ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR  ☐ WET DRY ☐  ☐ WATER LEVEL AT COMPLETION: NMR  ☐ WET DRY ☐  ☐ WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.																
▼       WATER LEVEL AT COMPLETION:       NMR       ■ CAVE - IN DEPTH AFTER 0 HOURS:       NMR       WET DRY         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	10 K							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	ĮΣ	w	ATER	ENC	DUNTERED	DURIN	IG D	RILLING: NE	CAVE - IN DEPTH AT	COMPLETIC	N:	NMR				WET DRY
	Ā	W.	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	CAVE - IN DEPTH AFT	TER 0 HOUR	S:	NMR				WET □ DRY □
	NC								sition between in-situ soil layer	rs should be exp	ected.					

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LO	90.	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PR	OJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	SR100
1.43   Second Super   1.44   Second Super   1.45   Second Super	MATTHERY	OF TRANSPOR	Mad	ison,	, WI 53704	u. 			RUCTURE ID:										1 of 1
120014   120014   120014   120014   120014   120015   120014   120014   120015   120014   120014   120015   120014   120015   120014   120015   120014   120015   1				ME:		I	43												
120114   120114   120114   120114   120114   120115   120114   120115   1									R: G	iles		CT NO:				3875		14	ASTING: 603069.642
120114   1						12/01/	14		C	Chip									wccs
SS   18   M   1-3-2-3   SS   24   M   3-4-5   5   4   M   SS   24   M   3-4-5   5   M   SS   24   M   SS			LETED:			12/01/	14		GII	LES			4	in					ERTICAL DATUM:
2272+96/CTHCB  32						Ozauk	е		C. Wierzchow	vski								:	NA
SS 18 M 1-3-3-3 Sill Ty CLAY, brown to light brown motited, moist, with roots, very stiff  SS 24 M 3-3-4-4 9  End of Boring at 10.0 ft.  WATER LEVEL 3: CAVE-IN DESTRATION DATA  WATER LEVEL COMPLETION: NIER  WATER LEVEL COMPLETION: NIER  WATER LEVEL COMPLETION: NIER  WATER LEVEL COMPLETION: NIER  WATER LEVEL AT COMPLETION: NIER	STA	TION <b>2272+</b>	-50CT	НСВ	OFFSET		0	OWNSHIP:	RANGE: SECT	TION:	1/4 SECTION:	1/4 1/4 S	ECTION	: S	URFACE	ELEVA	TION:		
SS 18 M 1-3-3-3 (6) 2 2 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, with roots, very stiff 2 2 25 SITY CLIAY, brown to light brown modified, moles, with roots, with		SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geologi	cal (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 24 M 3-4-5-5 - 4			18		1-3-3-3 (6)	- 1 - - 2 -	1	0.5 SILTY CLAY		vn ma	ottled, moist, with roots,			2.25				HSA	
SS 24 M 3-3-4-4 9 Stiff    SS 24 M 22 (7) 9   10.0 End of Boring at 10.0 ft.		SS 2	24		3-4-5-5 (9)	- 4 -							CL	2.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soll by the horizontal By the horizon	GINTT/228-04-01 0ZAUKEE CO GPJ 143 8/21/15					- 7 -		Stiff											
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60V	SS 3	24			9 -		10.0	5.1.75		40.05			2.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WET DRY  WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AT COMPLETION: NMR WET DRY  WATER LEVEL AT COMPLETION: NMR WOTES: 1) Strength of the page of the pag	1401-14					.5			End of Borir	ng at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3,1229-0							WATER	R LEVEL & CAV	/E-II	N OBSERVATION Γ	DATA							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Statistical fines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	₹ Z	7 W	ATER	ENCC	UNTERED	DURIN	IG D						LETIC	DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SOZAL	_																	WET DRY
	NO	OTES: 1								l trans	sition between in-situ soil laye	rs should	d be ex	pected.					

130 s	SCONSIN 3	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	SR101
MATHERS	OFTRANS	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:	07.110		ATITUDE				ONGITUDE:
	ADWAY N						DRILLING CONTRACTOR: Giles		CT NO:			3864	105.5	96	EASTING: <b>602837.426</b>
	E START				12/05/	14	CREW CHIEF: Chip				OORDIN				WCCS
	TE COMP	LETED:			12/05/	14	LOGGED BY:  GILES		4	in	IORIZON				/ERTICAL DATUM:
	JNTY:			OFFSET	Ozauk	ee	LOG QC BY:         C. Wierzchowsk           TOWNSHIP:         RANGE:         SECTION:	HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SECTION:		TREAMB			l:	NA.
317	2261+	-00CT	HCC	OFFSET	5'	Rt	TOWNSHIP. RANGE. SECTION.	1/4 SECTION.	1/4 1/4 SECTION.	ľ	UKFACE	CLEVA	TION.		T
L ( )	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -			vel, hard						HSA	A
	SS 1	12	M 18	4-5-9-16 (14)	- 2-				CL	4.5					
PRING DR TO STH 60/GINTN1228-04-01 OZAUKEE CO.GPJ 143 8/21/15	SS 2	24	M 17	4-3-8-10 (11)	- 4 -		5.0			4.5					
-VERSP					5		End of Boring a	t 5.0 ft.							
- 143 - SIL															
29-04-01															
N-43/122							WATER LEVEL & CAVE-	N OBSERVATION D	DATA						
AUKEE!		ATER	ENC	DUNTERED	DURI	NG D	DRILLING: NE	CAVE - IN DEPTH AT	COMPLETIO	N:	NMR				WET DRY
TIES/OZ				L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				WET DRY
NOO):i							oresent the approximate boundary; gradual trai surement Recorded	sition between in-situ soil laye	rs should be exp	ected.					

Meconsii	, WII	Dept. 2 Kin	of Transı ısman Blv	ortatio	n	WISDOT PROJE		1229-04-01				IG ID	):	SR102
TOF TRAFF	Mac	lison	, WI 5370	Ĭ.		WISDOT STRUC	CTURE ID:	CONCULTANT DDG :===		PAGE			1.	1 of 1
	PROJECT N	AME:		J-4	<b>.</b> 3 ∣	CONSULTANT:		CONSULTANT PROJECT NO:	ISOT NO	LATIT				ONGITUDE:
ROADWA						DRILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PRO	JECT NO:			7532.94	3	ASTING: 602629.645
DATE ST				12/01/	4	CREW CHIEF:	Chip	DRILL RIG:			RDINATE		l.	wccs
	MPLETED:			12/01/	4	OGGED BY:	GILES	HOLE SIZE:	4 in		ZONTAL [			ERTICAL DATUM:
COUNTY	2+50CT		OFFSET	Ozauke	e	OG QC BY:  OWNSHIP: RAN	C. Wierzchowski	HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SECTION:		AMBED EI	EVATION:		NA
227	2+50CT	HCC			0									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					<u>11/</u>	0.5 6" TOPSOIL		, uses					HSA	N .
SS 1		M 16	3-6-7-8 (13)	- 1 -		SILTY CLAY, I	red/brown, moist, trace	gravel, very stiff	4	0				
SS 2	S 24	M 16	6-8-14-17 (22)	- 4 -		Hard			4	.5				
S: 3	S 24	M 18	4-7-9-11 (16)	- 5 8 9 10 11 12 -		Very stiff			3 CL	25				
9:04:01 02AUKEE 00:05/0 143 821/1/5		M 19	3-4-5-5 (9)	- 13 - - 14 - 15- - 16 -		Gray			2	.25				
401-143-SILVERSPRING DR TO STH 60/GINT/122		M 21	4-4-6-4 (10)	- 17 - 18 - - 19 -		Stiff	End of Boring at	20.0 ft.						
1229-04						\\/\TED		N OBSERVATION	DATA					
JKEEN 4331	\\\\\\TED	ENICO	DUNTERED	י רו ורוי	G D		EVEL & CAVE-II	CAVE - IN DEPTH A		NN	/D			WET □
<u> </u>			L AT COM			NMR		CAVE - IN DEPTH A		NN				WET  DRY  WET  DRY  DRY
≝ <del></del> -							=	ition between in-situ soil lay			II X			DRY 🗆
8						urement Recorded			20 0xp00					

OEPAN OEPAN	ISIN. FOLL	WI De 3502	ept. Kin	of Transp sman Blv	ortation	on			PROJECT					1229	-04-01				BOI		G II	<b>)</b> :	SR10	)3
MICO	T PROJE	Madis	son,	WI 53704	1		CONO	WISDOT	STRUCTU	JRE ID:			COVICE II.	LVNIT DD.	DJECT NO:				AGE NO			To a	1 of	1
	VAY NAM		E: 		l-	43		NG CONTRAC	DTOD:							VIECT NO			IORTHIN				ASTING:	
									JIUR:		G	iles			ACTOR PRO	JECT NO				3877	702.2	25	602629.4	94
	OMPLET				12/02/	14	LOGGE	CHIEF:			C	Chip	DRILL RIC						OORDIN			Iv.	WCO	cs
COUNT					12/02/	14	LOG Q				GII	LES	HAMMER				4	l in	TREAME				EKTICAL DATOW.	
	N 2272+	79CTI	HD	OFFSET	Ozauk	ee	TOWNS		RANGE	C. Wie	sec SEC	VSKI TION:	HAWWER	1/4 SEC	CTION:	1/4 1/	4 SECTION		URFACE			1:	l	NA
SAMPLE TYPE			Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			E	and G	/ Rock Geologi Iajor Ui	cal C	rigin fo	or			USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes	
la.	050					J	0.6	7" HMA 12" BASE	= COLIB	OCE												HSA		
AU E	GER 3C	12	5		1 -		1.6		= COUR	SE							GW							
	SS 1		M 16	3-4-3-4 (7)	3 -			SANDY S	SILT, bro	own, mo	oist, trac	e clay	& grave	el, FILL,	very stiff			1.25	į,					
S	SS 2		M 19	2-2-2-4 (4)	+ 4 - - 5- + 6 -			Medium									SM	1.0						
\sqrt{s}	SS 3		M 17	5-6-10-10 (16)	8 -		8.0	SILTY CL	LAY, dar	rk browr	n, trace	grave	, with or	ganics,	hard			4.5						
					-10- -11 - -12 - -13 -												CL							
921/16	SS 4		M 26	4-5-8-9 (13)	- 14 - 15 - - 16 - - 17 -		10	0										4.5						
	SS		M	7-11-16-18	+ 18 - 8 <sub>- 19 -</sub>		18.	SILTY CL	LAY, gra	ay, trace	e gravel,	hard						4.5						
RING DR TO STH 80/GIN 1/1228-04-01 OZ.	5		16	(27)	- 20 - - 21 - - 22 - - 23 -			Mary all from									CL							
	6 6		M 19	6-7-8-9 (15)	- 24 -		25.	Very stiff					75.0.5°					2.75	i					
17229-04								\\/ \ T [	-D1-		d of Bori			ED\/	ATION	DAT	Δ							
	\\/ \ \	בם רי	VICO	UNTERED	י רו ורויי	NC F	י יוםר		EK LE NE	v L C	α CAV	/E-II			EPTH A			JNI:	NMR				WE <sup>-</sup>	
Siozauk				L AT COMF			NM		NE.			III IIŞE			EPTH A				NMR				DR' WE	Ţ
				ines between					ximate h	oundary	/: gradua												DR	<u> </u>
				countered; NI						. Jui iuai y	, <sub>gruuu</sub> a		o., DELV		a 3011 1a	, 0, 0 0110	DC CX	pooleu.						

Jag.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	SR104
MATTHERS	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							iles	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3880	)22.1	46 E	ASTING: <b>602655.513</b>
	TE STAR				12/05/	14		hip	DRILL RIG:					NATE SY			wccs
	TE COMP	LETED:			12/05/	14		LES	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	UNTY:				Ozauk	ee	og QC BY:  C. Wierzchow	vski	HAMMER TYPE:					BED ELE		l:	NA
STA	ATION <b>2277+</b>	-00CT	HCD	OFFSET		0	OWNSHIP: RANGE: SECT	ΓΙΟN:	1/4 SECTION:	1/4 1/4 S	ECTION	: S	URFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologic Each Major Ur	cal (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	15	M 16	3-4-7-6 (11)	- 1 -		9" TOPSOIL  0.8  SILTY CLAY, brown, moist, trace FILL, hard to very stiff	e san	d & gravel, POSSIBLE		CL	4.5				HSA	
	SS 2	24	M 20	4-3-4-5 (7)	- 4 -		4.5 SILTY CLAY, dark brown/black n	mottle	d, moist, very stiff			3.0					
EE CO.GPU 143 8/21/15					- 6 -						CL						
200/NIESOZANKELI-JA3/1229-04-01 - 143 - SIVJEKSPRING DR. 10 STH 80/GIN 1722-04-01 (0ZAUKEE 0D.GPJ - 143 8/2/15	SS 3	24	M 19	1-3-4-4 (7)	- 8 - - 9 -		SILTY CLAY, brown mottled, mo				CL	2.0					
+01-14					.0		End of Borir	ng at	10.0 ft.								
N1229-04							WATER LEVEL & CAV	/F.II	N ORSERVATION D	ΔΤΔ							
Z KEN 43	7 \_\_\	ATFR	FNCC	UNTERED	DI IDIN	IC D		/E-II ₩	CAVE - IN DEPTH AT		FTIC	N.	NMR				WET DRY
Stozauk Z	_			L AT COMF			NMR	<u> </u>	CAVE - IN DEPTH AF				NMR				DRY WET DRY DRY
NO NO	-						resent the approximate boundary; gradual	l trans									טאץ ר
							urement Recorded										

OFF JOE NO. 30E	WI E	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:			1229-04-01						G ID	):	SR10
OFTRANS	Mad	ison	, WI 53704	ŭ. 		WISDOT STRUCTURE ID:		I					AGE NO			1.	1 of
WISDOT PRO		ME:		I-4	.3 ∣	CONSULTANT:			ANT PROJECT NO:				ORTHIN				ONGITUDE:
ROADWAY N						ORILLING CONTRACTOR:  CREW CHIEF:	Giles	DRILL RIG	CONTRACTOR PROJ	ECT NO:				3929 NATE SY	944.03	7	ASTING: 602738.25
DATE COMP				12/03/1	4	LOGGED BY:	Chip	HOLE SIZ						ITAL DA		Tv	WCC:
COUNTY:				12/03/1	4	OG OC BY:	GILES	HAMMER			4	in			VATION:	ľ	
STATION			OFFSET	Ozauke	e	C. Wierz	SECTION:		1/4 SECTION:	1/4 1/4 S	ECTION:			ELEVA			N.
41+9	0Laket	ield			0	<u> </u>											
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / F and Ge Each Maj	Rock Des ological C jor Unit / C	Drigin fo	r		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
AUGE	R			- 1 -		0.8 8" BASE COURSE						-				HSA	
BC	8	5		_		1.5 SAND & GRAVEL, brown,	moist, FILL	., loose			GW	_					
SS 1	18	M 9	3-3-5-5 (8)	- 3 -							GW-GI	M					
SS 2	18	M 4	6-7-10-10 (17)	- 5-		Medium dense											
				- 6			of Boring at	6.0 ft.									
						WATER LEVEL O	CAVE	VI O D O	CD\/ATION!	D A T A							
∑ w	۸۲۵۰۱	=NICC	OUNTERED	י אוטווט ו	G D	WATER LEVEL &	CAVE-II		ERVATION - IN DEPTH A		I ETIC	NI.	NMR				WET 1
			L AT COMF			NMR			- IN DEPTH A				NMR				WET   DRY   WET   DRY
						resent the approximate boundary; o							NIVIE				DRY

" OEP	NSCONSIN.	WI [	Dept.	of Trans	portati	on	WISDO	OT PROJECT ID:		1229-04-01			BOI		G IE	<b>)</b> :	SR106
ARTIMET	OFTRANS	Mad	lison	, WI 5370	vu. )4			OT STRUCTURE ID:					AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:			CONSULTANT PROJECT NO:			ATITUD				ONGITUDE:
	ADWAY N						DRILLING CONTR	ACTOR:	Giles	DRILLING CONTRACTOR PROJ	JECT NO:		NORTHIN	3929	955.5	61 E	ASTING: <b>603248.087</b>
	TE STAR				12/03/	14	CREW CHIEF:		Chip	DRILL RIG:			COORDIN			I.	wccs
	TE COMP	LETED:			12/03/	14	LOGGED BY:		GILES	HOLE SIZE:		4 in	HORIZON				ERTICAL DATUM:
	UNTY:				Ozauk	ee	LOG QC BY:		zchowski	HAMMER TYPE:			TREAME			l:	NA
ST	47+0	0Lake	field	OFFSET	10'	Lt	TOWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTIO	N:   8	URFACE	ELEVA	TION:		
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	Rock Des eological ( ajor Unit / (	cription Origin for Comments	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	AUGE BC	R 12	4		- 1 -		4" HMA 0.3 12" BA	SE COURSE			GV					HSA	
	SS 1	18	M 17	3-4-4-4 (8)	- 2		stiff	CLAY, brown, mois	st, with sand	, trace gravel, FILL, very	CL	2.75	5				
COUNTESOZAUKEE(433725-04-01 - 143 - SILVPRSPRING DR TO STH 80/GINT/228-04-01 OZAUKEE CO.GPJ 143 827/15	SS 2	24	M 26	3-6-4-4 (10)	- 5-		4.0 SILTY:	SAND, black to gra			SM	1.5					
3 - SILVE					- 6			End	of Boring at	6.0 ft.							
01 - 143																	
1229-04							14/47		CA\/= ::	ALODOEDVATION	D 4 T 4						
Z EE/143/	7 \ 14'	٨Τ٢٥	ENIO	א וואדרייר	ר רו יביי	VIC 5				N OBSERVATION		ON:	NINAD				WFT 🗆
Siozaukee	_			L AT COM			ORILLING: NMR	NE		CAVE - IN DEPTH A			NMR NMR				WET DRY DRY DRY DRY DRY
V SNIES								roximate houndary		ition between in-situ soil lay							DRY 🗆
							surement Reco		graduur li al lõ		J. J J. IOGIG DE C	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

OED A	SCONSIN 3	WI [	ept.	of Transp Isman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE	<b>)</b> :	SR107
MATINGS	OFTRANSIO	Mad	lison	, WI 53704	u.  -		WISDOT STRUCTURE ID:					AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	Giles	DRILLING CONTRACTOR PROJECT	NO:		ORTHIN	3982	248.73	39 E	ASTING: <b>602381.2</b> 9
	TE STAR				12/03/	14	REW CHIEF:	Chip	DRILL RIG:				NATE SY			wccs
DAT	TE COMP	LETED:			12/03/	14	OGGED BY:	GILES	HOLE SIZE:	4	in	ORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COI	JNTY:			(	Ozauk	ee Lo	OG QC BY:	howski	HAMMER TYPE:		S	TREAME	BED ELE	VATION	:	N/
STA	TION	35+00F	alls	OFFSET	7'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION: 1/	/4 1/4 SECTION:	S	URFACE	ELEVA <sup>*</sup>	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geo Each Majo	logical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					+ 1 -		12" CRUSHED STONE  1.0  SILTY CLAY, brown, moist,	with orga	nics, POSSIBLE FILL, very	GW-GN	1				HSA	
	SS 1	12	M 21	2-2-4-4 (6)	- 2 -		stiff				2.25					
	SS 2	18	M 24	2-2-3-3 (5)	- 4 -		Stiff			CL	1.25					
2701FE 00:01 0 140 0 2 1710					- 6 -		6.0 SILTY CLAY, brown, moist,	trace gra	vel, very stiff	-						
	SS 3	24	M 17	6-8-10-10 (18)	- 9 -		10.0			CL	3.25					
							End of	Boring at	10.0 ft.							
							\\\\	`Δ\/F_I	N OBSERVATION DA	ΤΔ						
Z	7 W	ATFR	FNCC	OUNTERED	DURIN	IG DI			CAVE - IN DEPTH AT C		N·	NMR				WET DRY
7				L AT COMF			NMR	1854	CAVE - IN DEPTH AFTE			NMR				DRY WET DRY
N	·						resent the approximate boundary; gra	adual trans								DKY [
3							urement Recorded									

OF WISC	ONSIN.	WI E	ept.	of Trans	sportation	on	WISDO	OT PROJECT ID:		1229-04-01			BOF		G IE	<b>)</b> :	SR108
WHITE OF	TRANSPOR	Mad	ison	, WI 5370	vu. )4			OT STRUCTURE ID:					AGE NO				1 of 1
		JECT NA	ME:		I	43	CONSULTANT:			CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
	WAY N						DRILLING CONTR	ACTOR: <b>Gi</b>	les	DRILLING CONTRACTOR PROJECT	T NO:		IORTHIN	398	3274.0	61	ASTING: 603281.079
	START				12/03/	14	CREW CHIEF:	CI	hip	DRILL RIG:			OORDIN			I.	WCCS
	COMPL	_ETED:			12/03/	14	LOGGED BY:	GIL	ES	HOLE SIZE:	4	l in	IORIZON				ERTICAL DATUM:
COUN				OFFSET	Ozauk	ee	LOG QC BY: TOWNSHIP:	C. Wierzchows	ski	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION		URFACE			:	NA
SIAII	<u>4</u>	4+00F	alls	OFFSET	10'	Lt	TOWNSHIF.	RANGE. SECTI	ON.	1/4 SECTION.	1/4 1/4 SECTION	.   3	UKFACE	LLEVA	TION.		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock I and Geologic Each Major Uni	al C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
							6" HMA	A								HSA	1
AL	JGEF BC	<sup>R</sup> 12	4		- 1 -		1.5	SE COURSE  CLAY, brown mottled, mois	st, tr	ace gravel, hard	GW						
	SS 1	12	M 16	4-6-7-8 (13)	- 2 -							4.5					
	SS 2	24	M 16	5-7-12-1 (19)	2 - 5 -		6.0				CL	4.5					
$\vdash$				1	6	<u>r / ,</u>	<u>/ 6.0</u>	End of Borin	ng at	6.0 ft.							
							WAT			N OBSERVATION DA	ATA						
$\nabla$	+						ORILLING:	NE .		CAVE - IN DEPTH AT C			NMR				WET DRY
$ar{oldsymbol{\Lambda}}$				L AT COM			NMR		<u> </u>	CAVE - IN DEPTH AFT			NMR				WET  DRY
NO7	TES: 1 <sub>.</sub> 2	) Stratifi ) NE = I	cation Vot En	lines between countered; I	en soil type NMR = No	es rep Meas	oresent the app surement Reco	roximate boundary; gradual i orded	trans	sition between in-situ soil layers	s should be ex	pected.					

430.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>)</b> :	SR109
AHTTMENS	OF TRANSPOR	Mad DJECT NA	lison	, WI 53704	ч. 1		WISDOT STRUCTURE ID:	CONCILITANT PRO TEST VIC			ATITUD				1 of 1
	DOT PRO		AME:		I-4	13	ONSULTANT:  RILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:		ATITUDI				LONGITUDE: EASTING:
	E STAR						RILLING CONTRACTOR:  Giles REW CHIEF:	DRILL RIG:	CT NO.		COORDIN	4011	189.3	26	603319.859
	E COMP				12/05/1	14	Chip	HOLE SIZE:			HORIZON			Į,	WCCS
	JNTY:				12/05/1	14	GILES	HAMMER TYPE:	4	in	TREAME				
				OFFSET	Ozauke	<b>е</b> т	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				NA
1	2409+	00STH	60B			0									T
L	SAMPLE ITPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						$\frac{1}{\sqrt{1}} \cdot \frac{7}{7} \cdot \frac{1}{\sqrt{1}}$	6" TOPSOIL							HS	4
						<u>. 1 17</u> .	0.5								
	SS 1	12	M 18	1-3-3-4 (6)	- 1 <del>-</del> 2 -		SILTY CLAY, brown mottled, moist, very stiff	ith roots, trace organics,	CL	2.5					
OILVERSTRING ON TO SIT BOKOIN TIZZB-UF-UT CENOREE COLOR OF 143 BZ (TID	SS 2	24	M 19	1-3-4-7 (7)	- 4 -		No roots  5.0  End of Boring a	5.0 ft.		3.25					
10-01-															
0.40.40								U ODOED! !! =: : : :							
F	7 14	٨Τ٢٥	ENIO	טו ועודרטרט	, Di IDir	IC D	WATER LEVEL & CAVE-I			MI:	NINAT				WFT □
	_			DUNTERED L AT COMF			RILLING: NE   MMR  ■	CAVE - IN DEPTH AT			NMR NMR				WET  DRY  WET  DRY  DRY
=	OTES: 1	) Stratifi	cation	lines between	soil type	s repr	resent the approximate boundary; gradual tran								DRY 🗆
3							urement Recorded	<b></b>							

AIR.	CONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G II	<b>D</b> :	SR110
WHITE OF CO.	FTRANSTO	Mad DJECT NA	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:	Loovou Tart Pro			AGE NO				1 of 1
	DOT PRO		AME:		l-4	13	CONSULTANT:  PRILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO.		ATITUDI				LONGITUDE: EASTING:
	E START						GILES CREW CHIEF:	DRILL RIG:	UT NO.		COORDIN	4015	576.1	58	603420.789
	E COMP				12/05/	14	Chip OGGED BY:	HOLE SIZE:			HORIZON			- Iv	WCC:
	NTY:				12/05/	14	GILES OG QC BY:	HAMMER TYPE:	4	in	TREAME				
				OFFSET	Ozauk	<b>e</b>	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		URFACE				N/
2	413+(	00STH	60B			0									1
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						7117 17 77 1	6" TOPSOIL							HSA	4
	SS 1	12	M 21	3-3-3-5 (6)	- 1 - - 2 -		SILTY CLAY, brown, moist, with orga	nics, POSSIBLE FILL, stiff	CL	2.0					
	SS 2	24	M 20	3-7-8-6 (15)	- 3 -		3.0 SILTY CLAY, brown, moist, with grav	el, POSSIBLE FILL, stiff	CL	1.5					
Н			<u> </u>		5	//	5.0 End of Boring a	5.0 ft.			1				
_							WATER LEVEL & CAVE-I								NATE TO
V	_			DUNTERED				CAVE - IN DEPTH AT			NMR				WET [ DRY [ WET [
<u>Ā</u>				L AT COMF			NMR	CAVE - IN DEPTH AF			NMR				WET [ DRY [
NO							resent the approximate boundary; gradual tran urement Recorded	sition between in-situ soil layei	rs snould be exp	pected					

SE (	CONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G IE	):	SR111
ARTHERA	OF TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:				AGE NO				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
ROA	DWAY N	IAME:				D	RILLING CONTRACTOR: Giles	DRILLING CONTRACTOR PROJE	CT NO:		ORTHIN	4013	305.52	27	ASTING: 603130.754
DAT	E START	TED:			12/05/	14 C	REW CHIEF: Chip	DRILL RIG:		C	OORDIN	NATE SY	STEM:		wccs
DAT	E COMP	LETED:			12/05/	14	OGGED BY: GILES	HOLE SIZE:	4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	INTY:				Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAME	BED ELE	VATION	:	N/
STA	TION 410+0	00STH	60C	OFFSET		0	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		
HANN HANN	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	12	M 10	3-7-4-7 (11)	- 1 - - 2 -		6" TOPSOIL 0.5 SILTY SAND & GRAVEL, gray/brown	, moist, medium dense						HS#	
	SS 2	0		4-8-7-9 (15)	- 4 -				GM						
04-01 OZAUKEE CO.GPJ 143 821/15					- 6 -		8.0								
43 - SILVERSPRING DR TO STH 60/GINT/1229-04-01 O	SS 3	24	M 10	5-7-8-9 (15)	- 8 - - 9 -		CLAYEY SILT, gray, moist, with sand		CL-ML	2.5					
1-1-1-							End of Boring at	10.0 IL.							
341229-(							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
Ž Z	_ w	ATER	ENCC	UNTERED	DURIN	IG D		CAVE - IN DEPTH AT		N:	NMR				WET DRY
SYOZAUI				L AT COMF			NMR I	CAVE - IN DEPTH AF			NMR				DRY L WET DRY
<b>⊭</b> —							resent the approximate boundary; gradual tran								ן אט
8							urement Recorded								

130 .	ISCONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RING	G IE	):	MP16
MATTHER	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3634	169.68	32 E	ASTING: 603028.238
	TE START				11/03/ <sup>-</sup>	14	REW CHIEF:	MD	DRILL RIG:					NATE SY			wccs
DA	TE COMP	LETED:			11/03/	14	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
	UNTY:				Ozauk	ee	og QC BY:  C. Wierzcho	wski	HAMMER TYPE:					BED ELE		:	NA
STA	ATION	231+0	0NB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	11	M 20	2-5-4-7 (9)	- 1 - - 2 -		6" TOPSOIL 0.5  SILTY CLAY, brown, moist, trac	ce san	d, POSSIBLE FILL, very			3.5				HSA	
	SS 2	12	M 25	3-4-3-4 (7)	- 3 - - 4 -						CL	2.5					
					- 5- - 6 - - 7 -		8.0										
01 OZAUKEE CO.GPJ 143 8/21/15	SS 3	24	M 17	5-9-6-13 (15)	- 9 - -10- -11 -		SILTY CLAY, brown, moist, har	ď			CL	4.5					
SOUNTIESIOZAUKEB 43/1229.0401 - 143 - SILVERSPRING DR TO STH 60/GINTY1229.04/01 OZAUKEE CO GPJ   143 82/11/5	SS 4	24	M 19	2-7-6-9 (13)	- 13 - - 14 -		Gray, moist, very stiff  15.0  End of Bor	ring at	15.0 ft.		CL	2.75					
1229-04										ΛTΛ							
EN143/	7 14,	ATED	ENICO	N INITEDES	יחוחיי	10.5	WATER LEVEL & CA	_			ETIC	.NI-	NIN ATT				WFT □
SYOZAUKEE	_			UNTERED					CAVE IN DEPTH AT				NMR				WET  DRY  WET  DRY  DRY
NTIES	-			L AT COMF			NMR resent the approximate boundary; gradua	al trans	CAVE - IN DEPTH AFT				NMR				DRY 🗍
1.000							urement Recorded	u an	s.c	Janoulu	~~ CA	Joieu.					

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WIS	DOT PROJ	JECT ID:			1229-04	4-01					RIN	G II	<b>)</b> :	MP18
MATHER	OFTRANSPOR	Mad	lison,	, WI 53704				DOT STRU	JCTURE ID:	):							AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:					CONSULTANT PROJEC					ATITUD				ONGITUDE:
	ADWAY N						ORILLING CON	TRACTOR:		ı	AΕΤ	DRILLING CONTRACTO	OR PROJE	CT NO:			IORTHIN	3636	641.5	75 E	ASTING: <b>602848.85</b> \$
	TE STAR				1/15/	15	CREW CHIEF:				MD	DRILL RIG:						NATE SY	STEM:	•	wccs
DA <sup>-</sup>	TE COMP	LETED:			1/15/	15	OGGED BY:			-	ΛEΤ	HOLE SIZE:			4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	JNTY:			(	Ozauk	ee	OG QC BY:		C. W	/ierzchow	/ski	HAMMER TYPE:				S	TREAME	BED ELE	VATION	l:	N/
STA	TION 2	032+7	5SB	OFFSET	63'	Lt	FOWNSHIP:	RA	NGE:	SECT	ION:	1/4 SECTIO	N:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA	TION:		
i i	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and	oil / Rock d Geologic Major Ur	cal (	cription Origin for Comments			USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS	8	M	22-3-8-4	1 -		2.0	ASE CO							GW					HSA	
	1		11	(11)	- 3 -		SILT	Y CLAY,	reddish	brown, mo	ist, tr	ace sand & gravel,	hard								
	SS 2	10	M 28	2-5-3-5 (8)	- 4 -											4.5					
ZZAUREE COUGTS 145 921/13					- 6 - - 7 -										CL						
COURTES CALCULATE CALCULATION OF TO STITL COORDINATION OF TO STITL COOR	SS 3	20	M 20	2-5-3-5 (8)	- 9 -		Gray.	/brown, r				40.00				3.0					
1					. •				E	End of Borir	ng at	ιυ.υ π.									
0.622							\/\	ATFR	I FVFI	1 & CA\/	/F-II	N OBSERVAT	ION F	)ΑΤΔ							
Z   15	7 w	ATFR	ENCC	UNTERED	DURI	NG D		NE	vL			CAVE - IN DEF			LETIC	N:	NMR				WET DRY
				L AT COMF			NMR				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAVE - IN DEF					NMR				DRY _ WET _ DRY _
N	·							pproxima	te bounda	lary; gradual	trans	sition between in-situ									אט [
3				countered; NN									.,		- 7						

- M. /	CONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP19
MATTHERS	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
WIS	DOT PRO	DJECT NA	ME:		l-	43 C	CONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUD	E:		L	ONGITUDE:
ROA	DWAY N	AME:				D	RILLING CONTRACTOR:	ΞT	DRILLING CONTRACTOR PROJEC	CT NO:		١	IORTHIN	NG: <b>363</b> 6	672.2	56	ASTING: 603042.328
DAT	E START	ED:			11/03/	14 °	REW CHIEF:	1D	DRILL RIG:			C	OORDI	NATE SY	'STEM:	'	wccs
DAT	E COMP	LETED:			11/03/	L	OGGED BY:	ĒΤ	HOLE SIZE:		4	in	IORIZON	NTAL DA	TUM:	٧	/ERTICAL DATUM:
COL	JNTY:				Ozauk	L	OG QC BY:  C. Wierzchows		HAMMER TYPE:			S	TREAM	BED ELE	VATION	l:	NA
STA	TION 2	333+0	0NB	OFFSET	100'	Rt T	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION	: S	URFACE	E ELEVA	TION:		
H GMACO	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	13	M 16	2-6-4-9 (10)	- 1 - - 2 -	7.7	13" TOPSOIL  1.1  SILTY CLAY, brown/light brown, m	nois	t, trace sand & gravel, hard			4.25				HS/	A
	SS 2	15	M 16	4-12-8-16 (20)	- 3 -							4.5					
					- 6 - - 7 - - 8 -		Very stiff				CL						
01 OZAUKEE CO.GPJ 143 8/21/16	SS 3	24	M 20	5-9-7-11 (16)	- 9 - -10- -11 -							3.25	;				
OUNTIESIOZAUKEEI 431728-04-01 - 143 - SILVERSPRING DR TO STH 80/GINT71229-04-01 OZAUKEE CO. GPJ 143 821/15	SS 4	20	M 21	1-3-3-4 (6)	- 13 - - 14 -		13.0 SILTY CLAY, gray, moist, trace sar 15.0 End of Boring				CL	1.5					
1229-04-1										A T ^							
EEN43/	7 ,	٨٣٥	- NAC	NINTERES.	חוביי	10.5	WATER LEVEL & CAVE				. FT: 2	NI:	NIN 4T				WET [
SIOZAUKEE	_			DUNTERED				<u></u>	CAVE IN DEPTH AT				NMR				WET  DRY  WET  DRY  DRY
NIC NIES				L AT COMP			NMR resent the approximate boundary; gradual tra	rans	CAVE - IN DEPTH AFT				NMR				DRY 🗌
JOS TA							urement Recorded	ui ič		J SI IOUIU	. 20 GX	Joseph	•				

, DE	SCONSIN 3	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP21
MATTHER	OFTRANSIO	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	AME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	ΕT	DRILLING CONTRACTOR PROJE	CT NO:			NORTHIN	3638	371.8°	79	ASTING: 603008.009
	TE STAR				11/03/	14		ΙD	DRILL RIG:					NATE SY			wccs
	TE COMP	LETED:			11/03/	14	OGGED BY:	ΕT	HOLE SIZE:		4	in		NTAL DA			ERTICAL DATUM:
	UNTY:				Ozauk	ee	og qc by:  C. Wierzchows	ki	HAMMER TYPE:					BED ELE		l:	NA
STA	1 <b>2</b>	035+0	0NB	OFFSET	80'	Rt	OWNSHIP: RANGE: SECTIO	N:	1/4 SECTION:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	
						<u> </u>	6" TOPSOIL 0.5		d DOCCIDI E EILL of:#							HSA	A.
	SS 1	10	M 23	1-2-2-3 (4)	- 1 -		SILTY CLAY, brown, moist, trace s	san	d, POSSIBLE FILL, stiff		CL	1.75	5				
	SS 2	10	M 24	0-1-0-2 (1)	- 4 -		5.0 SILTY CLAY, brown, moist, trace s	 san	d & gravel, very stiff			1.5					
					- 6 -												
$\backslash\!\!\!\backslash$	SS 3	24	M 18	6-8-6-11 (14)	- 9 -							2.75	5				
1 OZAUKEE CO.GPJ 143 8/21/15	V				- 11 -						CL						
2   C	SS 4	24	M 19	2-4-3-5 (7)	- 12 - 13 - - 14 -		Gray/brown, stiff					1.5					
3 - SILVER							15.0										
14-01-14		1		1	<del>  15</del>	<u> </u>	End of Boring	at	15.0 ft.			-	1			-	l
33,1229-0							WATER LEVEL & CAVE	<u>-</u> - 1	N OBSERVATION D	ATA							
Z	Z   w.	ATER	ENCC	DUNTERED	DURIN	NG D		 81	CAVE - IN DEPTH AT		LETIC	N:	NMR				WET □ DRY □
SYOZAU	_			L AT COMF			NMR J		CAVE - IN DEPTH AF				NMR				WET DRY
N N	OTES: 1	1) Stratifi	ication	lines between	soil type	es repi	resent the approximate boundary; gradual tr	- rans									5
J.Y		2) NE = 1	Not En	countered; NN	иR = No	Meas	urement Recorded										

OFF WISCON	w. W	Dept 02 Kir	of Trans	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP22
TANDO OF TRA	Ma	disor	, WI 5370	4	1	WISDOT STRUCTURE ID:	CONCLIL TANT DOO 1507 NO			AGE NO:			li o	1 of 1
	PROJECT	NAME:		l-	43	CONSULTANT:  ORILLING CONTRACTOR:	CONSULTANT PROJECT NO:	ECT NO:		ORTHIN				NGITUDE:
						RILLING CONTRACTOR:  AET  CREW CHIEF:	DRILLING CONTRACTOR PROJE	ECT NO:			3638	62.59	) EAS	602806.102
	TARTED:			1/15/	15	OGGED BY:	DRILL RIG:  HOLE SIZE:			OORDIN ORIZON			VEE	WCCS
COUNT		-		1/15/	15	OG QC BY:	HAMMER TYPE:	4	in	TREAMB			VE	CHOAL DATOW.
STATIO	N		OFFSET	Ozauk	<b>96</b>	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		JRFACE				N.A
		-00SB		90'	Lt									
SAMPLE TYPE	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1/ 1/ 1/ 1/	24" TOPSOIL						ŀ	ISA	
	SS 10	M 31	0-3-1-3 (4)	- 2 -		, 2.0 SILTY CLAY, reddish brown, moist, tr	ace sand & gravel hard							
			(1)	3 -										
S	SS 21	M 17	1-4-2-7 (6)	- 4 -					4.25					
/ \				5-										
				- 6 - - 7 -				CL						
				8 -										
	SS 20	M 14	4-8-6-9 (14)	- 9 -					4.5					
				10		10.0 End of Boring at	10.0 ft.							
						End of borning at	10.0 10.							
						WATER LEVEL & CAVE-II	N OBSERVATION I	DATA						
$\nabla$	WATE	RENC	OUNTERE	D DURIN	IG D	RILLING: NE	CAVE - IN DEPTH AT	COMPLETIO	N:	NMR				WET DRY
Ā	WATE	RLEVE	L AT COM	PLETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOURS	3:	NMR				WET [
NOTE						resent the approximate boundary; gradual trans urement Recorded	ition between in-situ soil laye	ers should be expe	ected.					

S W 3	WI E	ept.	of Transp sman Blv	ortatio	n	WISDO	T PROJECT ID:			1229-04-01						G IE	):	MP23
OFTRANS	Mad	ison	, WI 53704	u. 1			T STRUCTURE ID:							AGE NO				1 of '
WISDOT PF		ME:		I-4	3 ∣	CONSULTANT:				FANT PROJECT NO:				ATITUDI				ONGITUDE:
ROADWAY						DRILLING CONTRA	ACTOR:	AET		CONTRACTOR PRO.	JECT NO:			ORTHIN	364	1074.4	42   <sup>E</sup>	ASTING: 603010.060
DATE STAF				1/19/1	5	CREW CHIEF:		MD	DRILL RIC						NATE SY		lv.	WCCS
COUNTY:	FLETED.			1/19/1	5 📗	LOG QC BY:		AET	HAMMER			4	in			VATION:		ERTICAL DATOW.
STATION			OFFSET	Ozauke	e 📗	TOWNSHIP:	C. Wierz	section:	HAIVIIVIER	1/4 SECTION:	1/4 1/4 9	SECTION:			ELEVA		•	N/
2	2037+0	ONB	OTT GET	100' F	Rt	TOWNSTIII :	TOWOL.	ozonow.		114 OLOTION.	174 174 0	LOTION	1 0	1	I	11014.		T
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge	Rock Des eological C jor Unit / (	Origin fo	r		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				7	ないというでは、ないないないないないないないない。			of Boring at	2.5 ft.								Hand	
						WAT	ER LEVEL &	CAVF-IN	N OBS	ERVATION	DATA							
∑ w	/ATER I	ENCC	UNTERED	DURIN	G D		NE NE			- IN DEPTH A		LETIC	N:	NMR				WET [ DRY [
	/ATER I	EVE	L AT COMF	PLETION	l:	NMR			CAVE	- IN DEPTH A	FTER 0	HOUR	RS:	NMR				WET [ DRY [
			lines between				oximate boundary;	gradual trans	ition betv	veen in-situ soil lay	ers should	d be exp	pected.					

dao.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT	PROJECT II	D:		1229-04-01				BOF		G II	<b>)</b> :	MP25
MATTHERS	OFTRANSPOR	Mad	ison	, WI 53704				STRUCTUR	RE ID:						AGE NO				1 of 1
		OJECT NA	ME:		l-	43	ONSULTANT:				CONSULTANT PROJECT NO:			L	ATITUDE	E:		L	ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRAC	CTOR:		AET	DRILLING CONTRACTOR PRO	OJECT NO:		١	IORTHIN	ig: <b>364</b> 1	172.3	63 E	ASTING: 602980.038
DA	TE STAR	TED:			1/16/	15 °	REW CHIEF:			MD	DRILL RIG:			C	OORDIN	NATE SY	'STEM:		wccs
DA	TE COMP	PLETED:			1/16/	L	OGGED BY:			AET	HOLE SIZE:		4	in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	L	OG QC BY:	C	. Wierzcho		HAMMER TYPE:				TREAME	BED ELE	VATION	l:	N/A
STA	ATION 2	038+0	0NR	OFFSET	80'	Т	OWNSHIP:	RANGE:	SE	CTION:	1/4 SECTION:	1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		
											ı								
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			a Ea	Soil / Roc and Geolog ach Major Ù	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 32	1-2-2-5 (4)	- 1 - - 2 -		2.0		lish brown, m	noist, tr	ace fine gravel, very stif	f						HSA	
	SS 2	16	M 19	2-4-2-6 (6)	- 3 -									2.75	;				
-04-01 OZAUKEE CO.GPJ 143 8/21/15					- 6 -								CL						
SOUNTESOCAUCEELLANTZB-04-01 - 1-43 - SIVJEKSPRING DR TO STH 80/GIN NTZB-04-01 OZAUCEE OD GPJ 1-43 8/2/1/5  N 1/2 1/2 1	SS 3	21	M 17	3-8-6-10 (14)	- 9 -		10.0							2.75					
401 - 14									End of Bo	ring at	10.0 ft.								
8/1229-0v							\\/ <b>\</b> \ T	FRIF	/FI & C ^	\/F_II	N OBSERVATION	ΙΠΔΤΔ							
Z	7 \_\_\	ATFR	FNCC	OUNTERED	DI IDIN	NG D		NE	LLGOA		CAVE - IN DEPTH			DN.	NMR				WET DRY
Siozauk Z	_			L AT COMF			NMR			TIENT.	CAVE - IN DEPTH				NMR				DRY C WET C DRY C
	-							oximate hor	undarv: gradi	Jal tran	sition between in-situ soil la								DKY [
							urement Record		gradu	u ark		, c. o onou		_ 55,60					

130 .	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT II	D:	1229-04-01					G ID	:	MP26
ARTIMENS	OF TRANSPOR	Mad	lison	, WI 53704	u.  -		WISDOT STRUCTUR	RE ID:				AGE NO				1 of 1
		OJECT NA	ME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTHIN	3642	258.29	<b>7</b> EA	ASTING: 602763.113
	E STAR				1/15/	15	REW CHIEF:	MD	DRILL RIG:			COORDIN				wccs
DAT	E COMP	PLETED:			1/15/	15	OGGED BY:	AET	HOLE SIZE:	4	∤in ∣⁺	HORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COL	JNTY:				Ozauk	ee Lo	OG QC BY:	. Wierzchowski	HAMMER TYPE:		S	TREAME	BED ELE	VATION:		NA
STA	TION 2	2039+0	0SB	OFFSET	95'	Lt	OWNSHIP: RANGE:		1/4 SECTION:	1/4 1/4 SECTION	: S	URFACE	ELEVA"	TION:		
L 1074	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	a Ea	Soil / Rock Des and Geological C ach Major Unit / C	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	17	M 17	1-4-2-8 (6)	- 2 -	10 x10	1.0	lish brown mottled,	moist, trace sand & gravel,		3.75	5		H	HSA	
	SS 2	24	M 16	2-11-6-14 (17)	- 4 -		Hard				4.5					
					- 6 - - 7 -					CL						
	SS 3	24	M 17	4-10-7-12 (17)	- 9 -		10.0				4.5					
					10 -			End of Boring at	10.0 ft.							
$\vdash$							WATEDIE	/FI & CΔ\/E !!	N OBSERVATION D	ΔΤΔ						
Ā	7 \\	ΔTFD	FNC	DUNTERED	יוסו וח י	ופ הי		/EL & CAVE-II	CAVE - IN DEPTH AT		)NI·	NMR				WET DRY
<u>7</u> -₹	_			L AT COMF			NMR	I	CAVE - IN DEPTH AT			NMR				DRY C
N								undary: gradual trans	sition between in-situ soil layer							DRY [
Ľ							urement Recorded			_ 55aia be ex	,					

OED A	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP27
ATTRICK	OF TRANSPOR	Mac	lison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	AME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROA	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	ig: <b>367</b> 8	328.52	29 [5	ASTING: <b>603034.05</b> 6
DAT	TE STAR	TED:			11/04/	'14 °	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	NATE SY	STEM:		WCCS
DAT	TE COMP	LETED:			11/04/	L	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	UNTY:				Ozauk	L	OG QC BY:		HAMMER TYPE:				TREAME	BED ELE	VATION		N/
STA	ATION 2	074+8	5NR	OFFSET	70'	Т	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	S	JRFACE	ELEVA	TION:		
									•								
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		Soil / Ro and Geo Each Majo	logical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						1 7 7 7 7 7 7 7 1 2 1 1 2 1 2 1 2 1 2 1	10" TOPSOIL									HSA	A.
						711	0.8										
Н					<del> </del> 1 -		SILTY CLAY, light brown mo	ottled, mo	ist, trace fine sand, very								
1 /																	
$\mathbb{N}$																	
Į (	SS 1	17	M 21	0-4-2-6 (6)	- 2 -							2.75					
$\Lambda$	'		2	(0)													
$/ \setminus$																	
					<u> </u> 3 -												
\ /																	
\/																	
IV	SS 2	24	M	3-8-5-11	- 4 -							3.5					
$\Lambda$	2	24	19	(13)	4							3.5					
$/ \setminus$											CL						
/ \					_												
					<del> </del> 5-												
					6 -												
1/15																	
43 8/2					7 -												
O.GPJ																	
UKEEO																	
-01 OZA					8 -	1	8.0 SILTY CLAY, gray/brown, m	oist, little	sand, stiff								
/1229-04																	
E0/GINT																	
LOSTH	SS 3	24	M 22	1-3-3-5 (6)	- 9 -	1//					CL	1.8					
NG DR.																	
ERSPR																	
43 - SIL!					10		10.0 End of	Boring at	10 0 ft								
SOUNTESOZAUKEEL43/1229-04-01 - 143 - SILVERSPRING DR TO STH ØNGINNT222-04-01 OZAUKEE OO GPJ 143 82/1/5																	
E/143/12	,								N OBSERVATION D								
Zaukee	_			DUNTERED					CAVE IN DEPTH AT				NMR				WET C
NATIES/OZ	-			L AT COMF			NMR	adual trans	CAVE - IN DEPTH AFT				NMR				WET [ DRY [
							resent the approximate boundary; gra urement Recorded	auudi เTans	muon between in-situ soli läyer	s si iUUIU D	ъе ехр	ecied.					

MISCONSIN	WI D	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF	RIN	G ID	):	MP28
OF TRANSPOR	Madi	ison,	WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PRO.		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY NA						RILLING CONTRACTOR: AET		CT NO:			3683	62.64	1 EA	ASTING: 602936.415
DATE STARTE				1/15/	15	REW CHIEF: MD				OORDIN	ATE SY	STEM:		wccs
DATE COMPLE	ETED:			1/15/	15	OGGED BY:	HOLE SIZE:	4	in	ORIZON	TAL DAT	ГИМ:	VE	ERTICAL DATUM:
COUNTY:			(	Ozauk	Lo	og QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAMB	ED ELE	VATION:		N/
STATION 20	80+00	SB	OFFSET	70'	T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVAT	ΓΙΟN:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
ss	10	M	2-4-3-6	- 1 -		24" TOPSOIL						ŀ	HSA	
1		48	(7)	- 3 -		SILTY CLAY, gray, moist, stiff								
SS 2	14	M 31	3-4-3-5 (7)	- 4 -					1.75					
				- 6 -				CL						
SS 3	19	M 19	3-4-5-7 (9)	- 9 -		Trace sand & gravel, very stiff  10.0			3.75					
				10		End of Boring a	10.0 ft.							
						WATER LEVEL & CAVE-	NI ODGEDVATION D	\^ T ^						
7	TED	-NOO	LINITEDES	חוביי	10.5				N 1.	NIN 4TO				WFT F
			UNTERED AT COMP				CAVE - IN DEPTH AT	COMPLETIO		NMR NMR				WET [ DRY [ WET [ DRY [

CONSUMER	A.O.E.	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJE	ECT ID:		1229-04-01						G IE	):	MP29
1.45   11.5	MATTHERS	OFTRANSPOR	Mac	lison	, WI 53704	u. !			CTURE ID:										1 of 1
Second   S				ME:		I	43												
11/5/15										AET		JECT NO:				3685		39 E	ASTING: <b>602947.795</b>
175/16	DA	TE STAR	TED:			1/15/	15 C	REW CHIEF:		MD				C	OORDIN	NATE SY	STEM:		wccs
SS   11    M   0.2-1-3   Soft   So	DA	TE COMP	PLETED:			1/15/	15	OGGED BY:		AET	HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   11   M   O-2-1-3   Suff	CO	UNTY:			1	Ozauk	ee	OG QC BY:	C. Wierzch	nowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION		N/
Second Description   Second	STA	ATION 2	2082+0	0SB	OFFSET	87'	Lt T	OWNSHIP: RAN	IGE: S	SECTION:	1/4 SECTION:	1/4 1/4 5	SECTION	: S	URFACE	ELEVA	TION:		
SS   11   M   0-2-1-3   2	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Geold	ogical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   24   M   1-3-1-4   4   4   5   6   6   6   6   6   6   6   6   6			11	M 24	0-2-1-3	- 2 -		1.0	gray/brown mot	ttled, ma	ist, stiff			1.25				HSA	
Light brown, hard  SS 21 M 3-11-7-13 9 Light brown, hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR D		SS 2	24		1-3-1-4 (4)	- 4 -		Soft						0.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	N111228-04-01 OZAUKEE CO.GPJ 1-43 821/15					- 7-		Light brown, ha	ard				CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60/GI.	SS 3	21		3-11-7-13 (18)	- 9 -		10.0			40.05			4.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	4-01-14					.5			End of B	soring at	10.0 π.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0							WATERI	EVFI & C.	AVF-II	N OBSERVATION	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET ORY  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	7 w	ATER	ENC	DUNTERED	DURIN	NG D				I		LETIC	DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAL	_																	DRY L
2) NE = Not Encountered; NMR = No Measurement Recorded	NO NO	OTES: 1	1) Stratif	cation	lines between	soil type	es repr	esent the approximate	e boundary; grad	dual trans									DIVI [

WISDOT PRO ROADWAY N  DATE START  DATE COMPI  COUNTY:	Mad OJECT NA NAME:	lison,	sman Blvo , WI 53704			WISDOT STF	RUCTURE ID:					PA	AGE NO:				1 of 1
ROADWAY N  DATE START  DATE COMPI	NAME:	ME:			C												1 01
DATE START				I-4	l3  ິ	ONSULTANT:			CONSULTANT PROJECT NO:			L	ATITUDE	:		LC	ONGITUDE:
DATE COMPI	TED:				DF	RILLING CONTRACTO	R:	AET	DRILLING CONTRACTOR PROJ	IECT NO:		N	ORTHIN	G: <b>3687</b>	'58.53	34 E	ASTING: 602992.804
	ILD.			1/15/1	5 CF	REW CHIEF:		MD	DRILL RIG:			С	OORDIN				wccs
COUNTY:	PLETED:			1/15/1	LC	OGGED BY:		AET	HOLE SIZE:		4	in	ORIZON	TAL DA	TUM:	VI	ERTICAL DATUM:
				Ozauke	LC	OG QC BY:	C. Wierz	zchowski	HAMMER TYPE:				TREAMB	ED ELE	VATION		N/
STATION 2	2084+0	0SB	OFFSET	70'	TO	OWNSHIP: F	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	SI	JRFACE	ELEVA	TION:		
								I.	•								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge Each Maj	Rock Des eological ( jor Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				+ 1 <del>-</del>		24" TOPSOI	IL									HSA	
SS 1	12	M 37	0-3-1-3 (4)	- 2 -		2.0 SILTY CLAY	/, light brown, l	moist, trace	sand & gravel, very stiff			_					
SS 2	24	M 19	2-3-1-6 (4)	- 4 -								2.5					
				- 6 -							CL						
SS 3	23	M 17	4-10-8-11 (18)	- 9 -		Hard	Fnd o	of Boring at	10.0 ft.			4.25					
							2.10										
						WATER	LEVEL &	CAVE-II	N OBSERVATION	DATA							
∑ w	ATER	ENCC	DUNTERED	DURIN	G DF	RILLING: NE		Ĭ <u>≅</u> I	CAVE - IN DEPTH A	Т СОМР	LETIC	N:	NMR				WET DRY
Ţ w	ATER	LEVE	L AT COMF	PLETION	<b>1</b> :	NMR			CAVE - IN DEPTH A	FTER 0 I	HOUR	S:	NMR				WET [
NOTES: 1						esent the approxim	nate boundary; g	gradual trans	ition between in-situ soil lay	ers should	be exp	ected.					

OED OED	CONSIN.	350°	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	MP31
HTMEN	FTRANS	Mad	lison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		J-4	I3	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N							AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3689		27 E	ASTING: <b>603010.9</b>
	E START				1/15/	5		MD	DRILL RIG:				OORDIN				wccs
DATI	E COMP	LETED:			1/15/0	)5	DGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	TAL DA	ΓUM:	VE	ERTICAL DATUM:
COU	NTY:				Ozauke	e Lo	OG QC BY:  C. Wierzchow	vski	HAMMER TYPE:			S <sup>-</sup>	TREAMB	ED ELE	VATION	:	N/
STA	TION <b>2</b>	086+0	0SB	OFFSET	78'	Lt T	OWNSHIP: RANGE: SECT	TION:	1/4 SECTION:	1/4 1/4 SE	ECTION	SI	JRFACE	ELEVA <sup>T</sup>	ΓΙΟN:		
SAMPI E TVPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ur	cal (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	7	M 41	2-4-3-4 (7)	- 1 - - 2 -		2.0 SILTY CLAY, gray/brown mottled	d, mo	ist, medium							HSA	
	SS 2	12	M 24	2-3-3-4 (6)	- 4 -						CL	0.75					
					- 6 - - 7 -		8.0										
	SS 3	22	M 14	3-9-5-9 (14)	- 9 -		SILTY CLAY, gray/brown, moist,				CL	4.0					
					10		End of Borin	ng at	10.0 ft.								
							MATERIEVEL 9 CAN	/F ''	ALODOEDVATION D	\ A T ^							
	141	٨٣٥	ENICO	N INITEDES	י רו וריי	IC D'	WATER LEVEL & CAV				ETIC	NI.	NIA 4D				WFT [
¥				UNTERED				<u> </u>	CAVE IN DEPTH AT				NMR				WET [ DRY [ WET [ DRY [
Ā				L AT COMF			NMR	/ <b>#</b>	CAVE - IN DEPTH AFT				NMR				DRY
NC							esent the approximate boundary; gradual urement Recorded	ı tran:	iπon between in-situ soil layer	rs should	be ex	ected.					

430 .	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP32
MATTHERY	OFTRANSPOR	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		<b> -</b> 4	I3	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROA	ADWAY N	NAME:				DI	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3691	153.16	61 E	ASTING: 603041.678
DAT	E STAR	TED:			1/15/1	15 CI	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	NATE SY	STEM:		wccs
DAT	E COMP	LETED:			1/15/1	15	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	JNTY:			(	Ozauke	e Lo	OG QC BY:  C. Wierzche	owski	HAMMER TYPE:			S <sup>-</sup>	TREAME	BED ELE	VATION		N/
STA	TION 2	088+0	0SB	OFFSET	70'	Lt T	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
L	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roo and Geolo Each Major l	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	19	M 15	2-9-6-11 (15)	1 -		1.0 SILTY CLAY, light brown, moi:	st, hard				4.5				HSA	
	SS 2	24	M 16	3-11-7-13 (18)	- 3 -							4.5					
OZAUKEE CO.GFU 143 821/15					- 6 <del>-</del>		Von etiff				CL						
SON IESUCANEELIAM ZEUGHON 1-14 - SIVERGINNING DK TO SIH BUGINNINGZEUGHUNGE OUGFU 1-13 BZTIB	SS 3	24	M 19	4-8-6-7 (14)	- 9 -		Very stiff					3.25	37	22			
4 - LO-4							End of Bo	oring at	1υ.0 π.								
N1229-0-							WATER LEVEL & CA	\/⊏_II	N ORSERVATION D	ΔΤΔ							
Z KEN 438	7 \ \	ΔΤΕΡ	ENICO	OUNTERED	יוםו וח י	ים או			CAVE - IN DEPTH AT		FTIC	N:	NMR				WET [
Z SiOZAUK				L AT COMF			NMR	TIZE	CAVE - IN DEPTH AT				NMR				WET DRY DRY DRY DRY
N N							resent the approximate boundary; grad	ual trans					NIVIK				DRY [
							esent the approximate boundary; grad urement Recorded	uai ii di 18	nuon between iir-situ soii läyel	s sriouid	ne ext	recieu.					

Modern   M	OF THE TENSION SIN	WI [	Dept.	of Transp	ortatio	on	WISDOT PROJEC	CT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP33
Figure   F	OFTRANS	Mad	lison	, WI 53704	u. 			TURE ID:										1 of 1
Description			ME:		l-4	43												
1/15/15								AE	ĒΤ		CT NO:				369		38	ASTING: 603084.182
MARCE   STREAMBD ELEVATION					1/15/	15		M	<b>I</b> D									wccs
STATION 2093+00SB OFFSET 70' Lt TOWNSHIP: RANGE SCITION MASSECTION		PLETED:			1/15/ <sup>-</sup>	15		AE	ĒΤ			4	in					ERTICAL DATUM:
SS   10   M   1-3-2-5   2   16   M   4-11-9-12   4   SS   16   M   4-11-9-12   2   16   M   4-11-9-12   4   SS   5-1   SS   SS   SS   SS   SS   SS   SS					Ozauke	ee		C. Wierzchows	ki								l:	N/
SS   10   M   1-3-2-5   2	STATION 2	2093+0	0SB	OFFSET	70'	Lt T	OWNSHIP: RANG	GE: SECTIO	N:	1/4 SECTION:	1/4 1/4 S	ECTION:	: S	JRFACE	ELEVA	TION:		
SS 10 M 1-3-2-5 2	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	ı	and Geologica	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 2 16 M 4-11-9-12 4 -		10	M 23	1-3-2-5 (5)	1 -		1.0	ght brown, moist, tra	ace	gravel, very stiff			3.0				HSA	
	SS 2	16		4-11-9-12 (20)	- 4 -		Hard						4.5					
Very stiff  SS 3 22 M 4-8-5-9 9 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  ONLY IN DEPTH AT COMPLETION: NMR					- 7 -							CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR	SS 3	22						5.1.(2)		40.0.6			3.2					
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER PLEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  ✓ WATER PLEVEL AT COMPLETION: NMR					. •			End of Boring	at '	10.0 π.								
WATER ENCOUNTERED DURING DRILLING: NE   ☐ CAVE IN DEPTH AT COMPLETION: NMR  ☐ CAVE IN DEPTH AT COMPLETION: NMR							WATERII	F\/F  & CΔ\/⊏	-10	N ORSERVATION F	ΔΤΔ							
WATER LEVEL AT COMPLETION. NIMP	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ATFR	FNCC	UNTERED	DI IDIV	וט טו						l FTIC	N.	NMP				WET [ DRY [
. I W I WALER LEVEL A LI LIMPLE HUM. NIMP I ■ I CAVE INTREDIO ALTEUTO D'AUTOC. NIMO "							NMR		<u>≈</u> 4					NMR				DRY DRY DRY DRY DRY DRY
WATER LEVEL AT COMPLETION: NMR    ■ CAVE - IN DEPTH AFTER 0 HOURS: NMR    NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								houndary: gradual tr	ans					INIVIE				DRY [

130 ·	SCONSIN.	WI [	Dept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT	ID:	1229-04-01					G ID	):	MP35
MATTHERS	OFTRANSTO	Mad	lison	, WI 53704			WISDOT STRUCTU	JRE ID:				AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:		L	ATITUDE	:		LC	ONGITUDE:
RO	A YAWDA	IAME:					PRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:	N	ORTHIN	G: <b>3700</b>	35.05	8 E	ASTING: <b>603285.965</b>
DA	TE STAR	ΓED:			1/22/	15	CREW CHIEF:	MD	DRILL RIG:		С	OORDIN			'	wccs
DA	TE COMP	LETED:			1/22/	L	OGGED BY:	AET	HOLE SIZE:	4	in	ORIZON	TAL DA	TUM:	VE	ERTICAL DATUM:
CO	JNTY:				Ozauk	L	OG QC BY:	C. Wierzchowski	HAMMER TYPE:			TREAMB	ED ELE	VATION:		NA
STA	TION 2	097+0	NNR	OFFSET	70'	Т	OWNSHIP: RANGE		1/4 SECTION:	1/4 1/4 SECTION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		107
								l								
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Rock Des and Geological ( ach Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	12	M 84	0-3-2-3 (5)	- 1 -										HSA	
	SS 2	19	M 25	1-3-1-3 (4)	- 4 -		SILTY CLAY, gra	ny/brown, moist, trace	e fine gravel, stiff		1.0					
					- 6 <del>-</del>					CL						
COUNTES/OZAUKEE 143/1229-04-01 - 143 - SILVERSPRING DR TO STH BOGINTY1228-04-01 OZAUKEE CO. GPJ 143 827/15  N 1	SS 3	0	М	3-7-4-11 (11)	- 9 -											
3 - SILVERSPRING DR TO STH 60/GINTA	SS 4	23	M 17	5-9-7-14 (16)	- 11 -		Very stiff				4.0					
+01-14	•	•		•	<del>· 12</del>	. / _/	1	End of Boring at	12.0 ft.		•	•				
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\/EL & C \\ \/E !!	N OBSERVATION D	) A T A						
Z EE/143	7 \ \	ATED	ENICO	DUNTERED	ייחוום			VEL & CAVE-II	CAVE - IN DEPTH AT		NI:	NMR				WET F
SYOZAUKEE								max								WET DRY DRY DRY DRY
NATES:	·			L AT COMF			NMR	oundary: gradual trans	CAVE - IN DEPTH AF			NMR				DRY
							resent the approximate b urement Recorded	ounuary, graduai trans	sition between in-situ soil laye	rs srioula de exp	ected.					

SSO   Madison, WI 53704   WISDOT STRUCTURE D:   CONSULTANT PROJECT NO:   DRILLING CONTRACTOR   DRILLING CONTRACTOR PROJECT NO:   DRILLING CONTRACTOR   DRILLING CONTRACT	n :	LA NC	ORIZON TREAMI JRFACI	DE:  NG:  370  INATE S  NTAL D  IBED EL	DATU LEVA VATIO	TUM: /ATION		1 of 1 LONGITUDE:  EASTING: 603103.269  WCCS  VERTICAL DATUM:
ROLLING CONTRACTOR PROJECT NO:  DRILLING CONTRACTOR POLICY NO:  DRILLING CONTRACTOR	n	NC CC HC STI	ORTHIN OORDII ORIZON TREAMI	NG: 370 INATE S NTAL D IBED EL	DATU LEVA VATIO	STEM: TUM: /ATION		EASTING: 603103.269 WCCS VERTICAL DATUM:
DATE STARTED:  1/14/15  DATE COMPLETED:  1/1	n s	HC STI	OORDII ORIZON TREAMI JRFACI	370 INATE S NTAL D IBED EL	DATU LEVA VATIO	STEM: TUM: /ATION		603103.269 WCCS VERTICAL DATUM:
11/4/15   13/4	n s	HC STI	ORIZON TREAMI JRFACI	NTAL D	DATU ELEVA VATIO	TUM: /ATION		VERTICAL DATUM:
THE PROPERTY OF THE PROPERTY O	n S	SU	JRFACI	BED EL	VATIO	/ATION	N:	
TATION 2097+00SB OFFSET 70'Lt TOWNSHIP RANGE SECTION: 144 SECTION: 144 145	5	SU	JRFACI	E ELEV	VATIO		N:	N/
SS 1 6 M 0-1-0-2 2 1 Stiff  SS 2 M 1-6-4-9 4 4.0 SILTY CLAY, light brown, moist, trace sand, stiff  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Silty CLAY, dark brown, moist, trace sand & gravel, POSSIBLE FILL, very soft  CL SS 2 M 1-6-4-9 - 4 4.0 SILTY CLAY, light brown, moist, trace sand, stiff					T	ION:		
SS   2   M   1-6-4-9   23   (10)   - 6	do nigeralos do disensación de	(tsf)	Limit (%)	(%) >				
SS 2 2 M 1-6-4-9 23 (10) - 4 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			Liquid	Plasticity Index (%)		Boulders	Drilling Method	Notes
SS 1 6 M 0-1-0-2 2 Stiff  SS 2 M 1-6-4-9 4 4.0 SILTY CLAY, light brown, moist, trace sand, stiff  5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -							HS	A
SS 2 2 M 23 1-6-4-9 (10) - 4 4.0 SILTY CLAY, light brown, moist, trace sand, stiff - 6 -								
8 Wet, very stiff								
	3.0	0						
End of Boring at 10.0 ft.				1				
WATER LEVEL & CAVE-IN OBSERVATION DATA			_					14/5
WATER ENCOUNTERED DURING DRILLING: 8.8ft.			9.7ft.					WET [ DRY [
WATER LEVEL AT COMPLETION: NMR		١	NMR	<b>!</b>				WET [ DRY [

OF THE PROPERTY OF THE PROPERT	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE	):	MP37
THE OF TRANSPORT	Mad	ison,	WI 53704			WISDOT STRUCTURE ID:					AGE NO				1 of '
WISDOT PR		ME:		<b> -</b> -	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				NGITUDE:
ROADWAY						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3702	235.64	18 E	ASTING: 603312.38
DATE STAR				1/22/	15	REW CHIEF:	MD	DRILL RIG:				NATE SY			wccs
DATE COMP	PLETED:			1/22/	15	OGGED BY:	AET	HOLE SIZE:	4	·in ⊢	ORIZON	ITAL DA	TUM:	VE	RTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY: <b>C. Wierzch</b> o	wski	HAMMER TYPE:				BED ELE			N
STATION 2	2099+0	ONB	OFFSET	90'	Rt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION: 1/4 1/4	SECTION	S	JRFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	11	M 39	1-4-3-6 (7)	- 1 -		36" TOPSOIL								HSA	
SS 2	15	M 27	3-4-3-5 (7)	- 4 -		CLAYEY SILT, gray/brown mod	ttled, m	oist, very stiff		2.20	47	31			
				- 6 -		8.0			CL-ML	-					
SS 3	23	M 18	3-8-5-11 (13)	- 8 - - 9 -		SILTY CLAY, brown, moist, tra			CL	3.5					
						End of Bo	my at	10.0 IL							
						WATER LEVEL & CA	VE-II	N OBSERVATION DATA	١						
√w	/ATER I	ENCC	UNTERED	DURIN	NG D	RILLING: NE		CAVE - IN DEPTH AT COM	IPLETIC	N:	NMR				WET
			UNTERED			RILLING: NE NMR	<b>■</b>	CAVE - IN DEPTH AT COM			NMR NMR				WET DRY WET DRY

10 July 10 Jul	WI E	Dept. 2 Kin	of Trans	portation	on	WISDOT PROJECT ID:	1229-04-01					3 ID:	MP38
AUCDOT TO	Mad	lison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			1 of
WISDOT PR		AME:		I-	43					ATITUDE			LONGITUDE:
ROADWAY						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT	NO:			3702	44.339	EASTING: 603107.83
DATE STAR				1/14/	15	REW CHIEF: MD	DRILL RIG:				ATE SYS		WCC
DATE COMP	PLETED:			1/14/	15	OGGED BY:  AET OG QC BY:	HOLE SIZE: HAMMER TYPE:	4	in		TAL DAT		VERTICAL DATUM:
COUNTY:			OFFSET	Ozauk	ee T	C. Wierzchowski OWNSHIP: RANGE: SECTION:		4 1/4 SECTION:			ELEVAT		N.
	2099+0	0SB		70'	<u>Lt  </u>								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	12	M 20	1-3-2-4 (5)	- 1 -		1.0 SILTY CLAY TO CLAYEY SILT, light gravel, stiff	brown, moist, trace sand &	CL-ML	1.5			H	SA
SS 2	10	M 27	2-3-1-3 (4)	- 4 -		3.0 SANDY CLAY, gray/brown, moist, tra	ce gravel, soft		0.5				
				- 6 -		8.0		SC					
SS 3	19	M 17	2-9-6-11 (15)			SILTY CLAY, gray/brown, moist, hard		CL	4.5				
						End of boiling at	10.0 It.						
						WATER LEVEL & CAVE-I	N OBSERVATION DA	TA					
	/ATED	FNCC	UNTERE	D DURI	NG D	RILLING: NE	CAVE - IN DEPTH AT CO	OMPLETIO	N:	NMR			WET [ DRY [
$\nabla$ w	AIER					, <u> </u>							WET [ DRY [

WISC.	ONSIN. NOIL	WI E	ept.	of Trans sman Bl	portatio	on	WISDOT PROJECT ID:	1229-04-01	_				G ID	):	MP39
THE STATE OF	TRANSTO	Mad	ison	, WI 5370	4	1	WISDOT STRUCTURE ID:	CONCULTANT DDG (TOT VO			AGE NO:			1	1 of 1
		DJECT NA	WE:		I	13	CONSULTANT:	CONSULTANT PROJECT NO:	OT NO.		ATITUDE				ONGITUDE:
	WAY N						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	CT NO:		ORTHIN	3704	37.26	1	ASTING: <b>603295.453</b>
	START				1/22/	15 📗	CREW CHIEF: MD	DRILL RIG:			OORDIN				wccs
		LETED:			1/22/	15	OGGED BY:	HOLE SIZE:	4 i	n	ORIZON'			VE	ERTICAL DATUM:
COUN				OFFSET	Ozauk	e	OG QC BY:  C. Wierzchowski OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		JRFACE		VATION:		NA
SIAII	2	101+0	0NB	OFFSET	70'	Rt '	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	JRFACE	ELEVA	IION:		1
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strengtn Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -	\(\frac{1}{1} \) \(\frac{1} \) \(\frac{1}{1} \) \(\frac{1}{1} \) \(\frac{1} \) \	12" TOPSOIL  1.0  SILTY CLAY, light brown/gray mottled gravel, stiff	I, moist, trace sand &					I	HSA	
	SS 1	14	M 25	1-1-1-3 (2)	- 2 -		Very stiff			1.5					
	SS 2	15	M 18	2-5-4-5 (9)	- 4 -		vo y dan			2.5					
					- 6 -				CL						
	SS 3	23	M 18	3-8-5-10 (13)	9 -		Hard			4.5					
					10		End of Boring at	10.0 ft.							
							WATER LEVEL & CAVE-I	N ORSEDVATION D	ΔΤΔ						
$\overline{\nabla}$	۱۸/	ΔΤΕΡ	ENICO	DUNTERE	אוםו וח ח	IC D		CAVE - IN DEPTH AT		ı.	NMR				WET [
$\frac{\mathbf{\Lambda}}{\overline{\overline{\Delta}}}$	+			L AT COM			NMR   RILLING: NE	CAVE - IN DEPTH AT			NMR NMR				WET  DRY  WET  DRY  DRY
								L			INIVIE				DRY 🗌
NOT							resent the approximate boundary; gradual tran urement Recorded	sition between in-situ soil layer	rs should be expe	cted.					

OEPW OIL	3502	ept. Kin	of Transp sman Blv	oortatio d.	on _	WISDOT PROJECT ID:	1229-04-01				RING	ID:	MP40
WISDOT PF	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			1 of 1
ROADWAY		uvi⊏.		l-	43	ONSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT N	O·		ORTHING			EASTING:
DATE STAR						REW CHIEF:	DRILL RIG:	O			37044 ATE SYST	3.747	603109.49
DATE COM				1/14/	15 📗	MD OGGED BY:	HOLE SIZE:				TAL DATU		VERTICAL DATUM:
COUNTY:				1/14/	15	AET OG QC BY:	HAMMER TYPE:	4	in		ED ELEVA		
STATION			OFFSET	Ozauk	9 <b>e</b>	C. Wierzchowski  OWNSHIP: RANGE: SECTION:		1/4 SECTION:			ELEVATION		N/
	2101+0	0SB		70'	Lt								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
					1/ 1/2 1/ 2/ 1/2	24" TOPSOIL						HS	SA.
ss	8	M	4-8-6-9	1 -	11/2 1/2 11/2 1/2 12/12	2.0							
1		26	(14)	3 -		SILTY CLAY, light brown mottled, mo	st, trace sand & gravel, stiff						
SS 2	12	M 21	2-2-2-4 (4)	- 4 -					2.0				
				5-									
				- 6 -				CL					
				- 7 - - 8 -									
SS 3	17	M 21	4-5-4-5 (9)	- 9 -		No mottling			2.0				
						10.0							
			ı	<del>' 10</del>	<u> </u>	End of Boring at	10.0 ft.						1
						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N ODSEDVATION DAT	- ^					
<u> </u>	/ATED	ENICC	DUNTERED	ייטו וט י	IC D	WATER LEVEL & CAVE-I	OBSERVATION DAT CAVE - IN DEPTH AT CO		d.	NIMD			WET 「
$\nabla \mid v$			L AT COM				CAVE - IN DEPTH AT CO			NMR NMR			WET [ DRY [ WET [ DRY [
▼ N		<b>⊢</b> \/⊢	ı Aı COM/II	-LEHO	N.	NMR J	LUAVE - IN DEPTH AFTER	CU HUURS	- I	NIN/IH			DDV I

430 (A	SCONSIN 30	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RING	G IE	):	MP41
AHTTMENS	OF TRANSPOR	Mad	ison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3715		36 E	ASTING: 603302.327
	E STAR				11/04/	14	REW CHIEF:	MD	DRILL RIG:					IATE SY			wccs
DAT	E COMP	LETED:			11/04/	14	OGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	TAL DA	TUM:	VI	ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:  C. Wierzcho	wski	HAMMER TYPE:					ED ELE			N/
STA	TION 2	112+0	0NB	OFFSET	70'	Rt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
	SAMPLE 17FE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -		14" TOPSOIL  1.2  SILTY CLAY, light brown mottle	ed, mo	ist, trace sand, stiff							HSA	
	SS 1	15	M 20	1-5-2-6 (7)	3 -							1.75					
	SS 2	15	M 17	2-7-5-9 (12)	- 4 -						CL						
2240NEE CU.SFU 143 821/10					- 6 -		8.0										
COUNTESOUZANEE HAN 1289-94-01 - 14-3 - SILVERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 14-19 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-1 - 181 PERSPRING DR. TO SIT BOUGHIN 1728-94-01 UZANDRE UJ. 19-	SS 3	23	M 18	3-10-7-12 (17)	- 9 -		SILTY CLAY, gray, moist, trace				CL	4.25					
<u>†</u>							End of Bor	ing at	10.0 ft.								
W 1229-04							WATER LEVEL & CA	\/F_II	N ORSERVATION D	ΔΤΔ							
	7 W	ATFR	FNCC	DUNTERED	DURIN	IG D			CAVE - IN DEPTH AT		FTIO	N.	NMR				WET DRY
				L AT COMF			NMR		CAVE - IN DEPTH AT				NMR				DRY C WET C DRY C
NC							resent the approximate boundary; gradua	al trans									DRY L
3							urement Recorded				. 5,4						

0 Jegy 101	WI E	ept. Kin	of Trans sman Blv	portatio /d.	on	WISDOT PROJECT ID:	1229-04-01				G ID:	MP42
OFTRANS	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONICIII TANT PRO IECT VO		PAGE N			1 of
WISDOT PF		WE:		I	43	CONSULTANT:	CONSULTANT PROJECT NO:	NO.	LATITU			LONGITUDE:
ROADWAY						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	NO:	NORTH	371	638.552	EASTING: 603099.95
DATE STAR				1/14/	15	REW CHIEF: MD	DRILL RIG:			DINATE S		WCC
ATE COM	PLETED:			1/14/	15	OGGED BY:	HOLE SIZE:	4 in		ONTAL DA		VERTICAL DATUM:
COUNTY:			OFFSET	Ozauk	ee	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/	4 1/4 SECTION:		MBED ELEVA	EVATION:	N/
TATION	2113+0	0SB	OFFSET	87'	Lt '	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/	4 1/4 SECTION:	SURFAI	JE ELEVA	TION:	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes
				<u> </u>		12" TOPSOIL  1.0  SILTY CLAY, light brown mottled, mo	st, trace sand & gravel, stiff				Н	SA
SS 1	13	M 16	1-3-2-5 (5)	- 2 -				1	.5			
SS 2	19	M 17	2-6-4-8 (10)	- 4 -		Hard		4.	25			
V				- 6 -				CL				
				8 -		Trace gravel, no mottling, very stiff						
SS 3	22	M 16	4-8-6-9 (14)	- 9 -		10.0		4	.0			
	•			10	.,_/_	End of Boring at	10.0 ft.			•		•
						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N OBSEDVATION DA	TΛ				
$\overline{\nabla}$	/ATED !	ENICO	וווודבטבי	י רו ורוי		WATER LEVEL & CAVE-I			NJN 41			WET [
_			UNTERE				CAVE IN DEPTH AT CO		NM			WET [ DRY [ WET [ DRY [
\# I \/\	AIEK		L AT COM			NMR resent the approximate boundary; gradual trans	CAVE - IN DEPTH AFTE		NMF	`		DRY [

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJE	CT ID:	1229-04-01			BO		G ID	):	MP43
MATINETS	OF TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUC	TURE ID:				PAGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDI				ONGITUDE:
	ADWAY N					D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		NORTHIN	3717	37.03	3	ASTING: 603343.576
DA	TE STAR	TED:			11/04/	14 C	REW CHIEF:	MD	DRILL RIG:		(	COORDIN	IATE SY	STEM:		wccs
DA	TE COMP	LETED:			11/04/	14	OGGED BY:	AET	HOLE SIZE:		in	HORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
CO	UNTY:				Ozauk	ee L	OG QC BY:	C. Wierzchowski	HAMMER TYPE:		8	STREAME	BED ELE	VATION:		N/
STA	ATION 2	114+0	0NB	OFFSET	110'	Rt T	OWNSHIP: RAN	GE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION	l: S	SURFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
			18		- 1 -		1.2	rown mottled, moist, ti	ace sand & gravel, stiff						HSA	
	SS 1	17	M 23	1-5-3-7 (8)	- 2 -		Very stiff				1.5					
	SS 2	15	M 16	3-7-5-11 (12)	- 4 -						3.75	5				
.GFJ 143 8/21/15					- 6 -					CL						
SOUNTENOZAVARENIASI ZSEGGOTI - 13 - SILVERSPRING DR. I O SI H BOIGN 1722-04-01 OZAVAREN CO.GFO 143 8/2/175	SS 3	23	M	3-9-7-11 (16)	- 8 -		Hard				4.5					
4		•			10		,	End of Boring at	10.0 ft.		1	1				
223-04-0																
1 431	7								N OBSERVATION D							1A/F
ZAUKE Z	_			DUNTERED					CAVE - IN DEPTH AT			NMR				WET DRY
Z SO	-			L AT COMF			NMR	have to	CAVE - IN DEPTH AF			NMR				WET [ DRY [
N							resent the approximate urement Recorded	poundary; gradual tran	sition between in-situ soil laye.	rs snould be ex	pectea					

Note:	3502	Jept. 2 Kin	of Transı sman Blv	portatio d.	n	WISDOT PROJECT ID:	1229-04-01				RIN	G ID	1	MP44
WISDOT PF	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			GE NO:			LONGITUDE:	1 of '
ROADWAY		NIVIE.		J-4	13	ONSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJE	CT NO:		ORTHING			EASTING:	
ATE STAR						REW CHIEF:	DRILL RIG:	CT NO.		ORDINA	3718	38.442	2 EASTING: 60	3118.20
ATE COM				1/14/1	15	DGGED BY:	HOLE SIZE:			ORIZONT			VERTICAL DAT	WCC
OUNTY:				1/14/1	15	AET DG QC BY:	HAMMER TYPE:	4 in		REAMBE			TEITHORE BY	
TATION	245.0	00D	OFFSET	Ozauke	<b>e</b>	C. Wierzchowski  DWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		RFACE I				N/
	2115+0	USB		70'	<u> </u>									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	otes
					7 7 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	12" TOPSOIL						F	SA	
ss		М	2-5-2-4	+ 1 +		SILTY CLAY, light brown mottled, mo	ist, stiff							
1	10	17	(7)	- 2 -					.25					
ss	17	М	2-6-4-7	3 -		Very stiff			٥٥					
2	17	20	(10)	5-4				CL	.25					
				- 6 -										
				- 7 -										
				8 -		8.0 SILTY CLAY, brown, moist, trace sar	d & gravel, stiff							
SS 3	4	M 11	1-7-5-8 (12)	- 9 -				CL						
				10	<u>//</u>	10.0 End of Boring at	10.0 ft.							
								NATA						
v	/ATED	ENICC	OUNTERE	יוםו וח ר	וט טו	WATER LEVEL & CAVE-I	N OBSERVATION D CAVE - IN DEPTH AT			NMR				WET [
			L AT COM			NMR I	CAVE - IN DEPTH AT			MR				WET [ DRY [ WET [ DRY [
- 1	1) Stratifi	cation	lines between	n soil type	s repr	resent the approximate boundary; gradual transurement Recorded				*1411 /				DRY [

SSS 24   M   4-8-6-10   9	OF WISCON	U 30	WI D	ept.	of Transp	ortati	on	WISDO	OT PROJE	CT ID:			1229-04-01					RIN	G II	):	MP45
ACT   Mark   M	ATTACK OF TR		Mad	ison,	, WI 53704				OT STRUC	CTURE ID:											1 of 1
110614   100607				ME:		I-	43														ONGITUDE:
Martin									ACTOR:		Al	ΕT		CT NO:				3719	37.2	78 E	ASTING: 603304.826
Second   Control   Cont	DATE S	TARTE	D:			11/05/	14 C	REW CHIEF:			N	/ID	DRILL RIG:			С	OORDIN	NATE SY	STEM:		
SOURCE   Common   C	DATE C	OMPLE	TED:				L	OGGED BY:			Al	ΕT	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	
Section   Sec	COUNT	<b>Y</b> :					L	OG QC BY:		C. Wie			HAMMER TYPE:				TREAME	BED ELE	VATION	l:	NΔ
SS   12   M   1-2-2-3   - 2   - 3	STATIO	N 21	16+0	NIR			T	OWNSHIP:	RAN		SECTION	N:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA	TION:		147-
SS   12   M   1-2-2-3   2   3.0   SILT, green/brown, moist, trace aand, little day & gravel, soft   SM   SS   12   M   1-2-2-3   2   SILT, green/brown, moist, trace aand, little day & gravel, soft   SM   SS   15   M   3-5-3-8   4   SILTY CLAY, brown, moist, trace gravel, very stiff   SS   15   M   3-5-3-8   4   SILTY CLAY, brown, moist, trace gravel, very stiff   SS   15   M   3-5-3-8   4   SILTY CLAY, brown, moist, trace gravel, very stiff   SS   SS   SS   SS   SS   SS   SS				,,,,									I								
SS   12   M   1-2-2-3   2	SAMPLE TYPE	NOIMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				and (	Geologica	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
1 1 2 16 (4) 2 3 3 3.0 SILTY CLAY, brown, moist, trace gravel, very sliff  SS 15 M 3-5-3-8 4 4 3.75  - 6 7 7						- 1-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0		own, moi	ist, trace sa	and,	little clay & gravel, soft			_				HSA	
SS 15 M 3-5-3-8 4			12			- 2-									SM						
SS 24 M 4-8-6-10 9		SS 2	15		3-5-3-8 (8)				CLAY, b	prown, m	oist, trace	grav	rel, very stiff			3.75					
SS 24 M 4-8-6-10 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.															CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET DRY  AND WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								Stiff													
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY   S	3 3	24		4-8-6-10 (14)	9 -		10.0			1.15		40.00			1.5						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  MOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						. •				En	nd of Boring	at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between so between so between and by the More proposed by the More prop								WAT	ΓER L	EVEL	& CAVE	E-IN	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between expressent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\Box$	WA	TER I	ENCC	UNTERED	DURI	NG D								LETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	4	WA	TERI	EVE	L AT COMF	PLETIO	N:	NMR					CAVE - IN DEPTH AF	TER 0 H	HOUR	:S:	NMR				WET [
	NOTE	ES: 1)	Stratific	cation	lines between	soil type	es repr			e boundar	ry; gradual t	- rans									

MISCONSIN TO	WI D	ept.	of Transp sman Blv	portatio d.	on	WISDOT PROJECT ID:	1229-04-01				RINC	3 ID:	MP46
WICDOT DOC	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCLITANT PROJECT NO			AGE NO:			1 of
WISDOT PROJ ROADWAY NA		IVIE:		l-4	43	ONSULTANT:  RILLING CONTRACTOR:	CONSULTANT PROJECT NO:			ORTHING			LONGITUDE:  EASTING:
						AET	DRILLING CONTRACTOR PROJECT NO	:			37203	38.569	603098.45
DATE STARTE				1/14/	15	REW CHIEF:  MD DGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN/ ORIZON			VERTICAL DATUM:
COUNTY:	LILD.			1/14/	15	AET OG QC BY:	HAMMER TYPE:	4	in	TREAMBE			VERTICAL DATOW.
STATION	17+0	nep	OFFSET	Ozauke 91'	<b>9e</b>	C. Wierzchowski DWNSHIP: RANGE: SECTION:		4 SECTION:		JRFACE			N.
		JOD		7	<u> </u>								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
					717 11 711	12" TOPSOIL						H	SA
				<del> </del> 1-		1.0 SILTY CLAY, brown/gray mottled, mo	ist, stiff						
SS 1	8	M 28	1-4-2-4 (6)	- 2 -				CL	1.25				
				- 3 -		3.0 SILTY CLAY, light brown, moist, very	stiff						
SS 2	22	M 20	2-2-3-5 (5)	- 4 -					2.5				
				5-									
				- 6 -				CL					
				- 7 -									
				8 -		Gray, trace gravel							
SS 3	21	M 17	3-9-7-10 (16)	- 9 -					3.25				
1				10		10.0 End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-I	N OBSERVATION DATA	Δ					
∑ WA	TFR F	ENCC	DUNTERE	DURIN	IG DI		CAVE - IN DEPTH AT CON		N:	NMR			WET [ DRY [
			L AT COM			NMR I	CAVE - IN DEPTH AFTER			NMR			DRY [ WET [ DRY [
NOTES: 1)	Stratific	cation	lines between	n soil type	s repr	esent the approximate boundary; gradual trans arement Recorded							2.11 [

OED (	CONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJ	IECT ID:		1229-04-01						G IE	):	MP47
ATTACK C	FTRANSTO	Mad	lison	, WI 53704	۵. ا		WISDOT STRU	ICTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		l-	43	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N						RILLING CONTRACTOR:		AET	DRILLING CONTRACTOR PROJ	IECT NO:			ORTHIN	3721	187.27	74 E	ASTING: 603306.387
	E STAR				11/05/	14	REW CHIEF:		MD	DRILL RIG:				OORDIN				wccs
DATI	E COMP	LETED:			11/05/	14	OGGED BY:		AET	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	ee	OG QC BY:	C. Wierzo	chowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	N/
STA	ΓΙΟΝ <b>2</b>	118+5	0NB	OFFSET	70'	Rt T	OWNSHIP: RA	NGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	SI	JRFACE	ELEVA	TION:		
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Ged	Rock Des blogical ( or Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	14	M 17	2-4-2-7 (6)	- 1 - - 2 -		1.0		ottled, mo	ist, trace sand, very stiff			3.75				HSA	
	SS 2	20	M 15	4-11-7-15 (18)	- 4 -		Hard						4.5					
					- 6 - - 7 -		Trans gravel					CL						
vc Ā	SS 3	23	M 16	3-11-8-14 (19)	- 9 -		Trace gravel						4.5					
					.0			End of	Boring at	10.0 ft.								
$\vdash$							\\/\TED	E\/E  0 <i>(</i>	^ <u> </u>	N OBSERVATION	DAT^							
$\nabla$	10/	ΔΤΕΡ	ENC	DUNTERED	יוםו וח י	NG D		LEVEL & (	DAVE-II	CAVE - IN DEPTH A		ETIO	NI:	NMR				WET DRY
<b>1</b>	_			L AT COMF			NMR			CAVE - IN DEPTH A				NMR				DRY DRY DRY DRY
NC.								te boundary: or	radual trans	sition between in-situ soil lay								DKY [
L							urement Recorded				0 0.10alu	OAD	JU.00.					

March   Marc	OF WISE	CONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BO		G II	<b>)</b> :	MP48
143   Security   143	HTMERYO	FTRANSPE	Mad	ison	, WI 53704	u.  -											1 of 1
AFT   STATE				ME:		I-	43										
1/19/15									AET		T NO:			3722		34	603120.703
CAMERIC PROPERTY   CAMERIC PRO						1/13/	15		MD							I.	
SS   16   M   1-3-4-2   2   2   3   3   2   4-3-4   4   5   5   5   5   5   5   5   5			LETED:			1/13/	15		AET			4 in					ERTICAL DATUM:
2119-0058 70 Lt  2119-0058 70 Lt  2119-0058 70 Lt  2119-0058 8						Ozauk	ee	C. Wierzcho	wski							l:	NA
SS   16   M   1-3-4-2   2   3.0   SILTY CLAY, light brown motified, moist, safe   CL   2.0     SS   24   M   2-4-3-4   4	STAT	10N <b>2</b>	119+0	0SB	OFFSET	70'	Lt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECTION	ON:	SURFACI	ELEVA	TION:		
SS 16 M 1-3-4-2 - 2 SILTY CLAY, light brown motited, moist, still CL 2.0  SS 2 4 M 2-3-4 - 4 SILTY CLAY, brown/gray motited, moist, trace gravel, still CL 2.0  SS 2 4 M 4-9-6-12 - 9 SILTY CLAY, gray/brown, moist, trace gravel, hard  CL 4.5  SS 24 M 4-9-6-12 - 9 SILTY CLAY, gray/brown, moist, trace gravel, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT FER HOURS NAR SILTY CLAY, gray/brown, moist, trace gravel, hard  CAVE - IN DEPTH AT COMPLETION: NMR SILTY CLAY, gray/brown, moist, trace gravel, hard  CAVE - IN DEPTH AT COMPLETION: NMR SILTY CLAY, gray/brown, moist, trace gravel, bard  CAVE - IN DEPTH AT COMPLETION: NMR SILTY CLAY, gray/brown, moist, trace gravel, stilf CLAY, gray/brown, moist, stilf	SAMPI F TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolog	gical (	Origin for	OTHRAA / SOSII	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
1						- 1-	·711/2	1.0	ed, mo	ist, stiff						HSA	
SS 24 M 4-9-6-12 9 SILTY CLAY, gray/brown, moist, trace gravel, hard  CL 4.5  SS 24 M 4-9-6-12 9 CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT FER 0 HOURS: NMR  NOTE: 1) Strattication innes between soil types represent the approximate boundary, gradual transition between re-situ soil layers should be expected.			16	M 12				3.0			С	_ 2.0					
SS 24 M 4-9-6-12 9 SILTY CLAY, gray/brown, moist, trace gravel, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lires between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	24	M 33	2-4-3-4 (7)	- 4 -			ed, mo	ist, trace gravel, stiff		2.0					
SSLIY CLAY, gray/brown, moist, trace gravel, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 6 -					С	-					
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	24					SILTY CLAY, gray/brown, mois			С	_ 4.5					
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☒       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET □ DRY						-		End of Boi	ııng at	ιυ.υ π.							
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☒       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET □ DRY								WATER LEVEL & CA	VE-II	N OBSERVATION DA	ATA						
▼       WATER LEVEL AT COMPLETION:       NMR       ■       CAVE - IN DEPTH AFTER 0 HOURS:       NMR       WET □ DRY □         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	W	ATER	ENCC	DUNTERED	DURIN	NG DI		_			ION:	NMR				WET 🗆
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	+=	CAVE - IN DEPTH AFT	ER 0 HOL	JRS:	NMR				WET [
	-								ial trans	sition between in-situ soil layers	s should be	expected	I.				

WI Dept. of Transportation 3502 Kinsman Blvd.	WISDOT PROJECT ID:	1229-04-01	BORING ID:	MP49
Madison, WI 53704	WISDOT STRUCTURE ID:		PAGE NO:	1 of 1
WISDOT PROJECT NAME:	CONSULTANT:	CONSULTANT PROJECT NO:	LATITUDE: LONGITUDE	:
ROADWAY NAME:	DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:	NORTHING: EASTING: 6	03337.948
DATE STARTED: 11/05/	CREW CHIEF:	DRILL RIG:	COORDINATE SYSTEM:	WCCS
DATE COMPLETED: 11/05/	LOGGED BY:	HOLE SIZE:	HORIZONTAL DATUM: VERTICAL D	
COUNTY:	LOG OC BY:	HAMMER TYPE:	STREAMBED ELEVATION:	N/A
STATION 2121+00NB OFFSET 100'	TOWNSHIP: RANGE: SECTION	1/4 SECTION: 1/4 1/4 SECTION:	SURFACE ELEVATION:	NA
2121+00NB 100	Rt			
SAMPLE TYPE NUMBER RECOVERY (in) (RQD) Moisture BLOW COUNTS (N VALUE) Depth (ft)	ਤੁੰਦੂ Soil / Rock De and Geological g Each Major Unit	scription Origin for Comments Original AASHTO	Liquid Plasticity Bou Drilling	Notes
	14.5" TOPSOIL		HSA	
19	SILTY CLAY, reddish brown, moist,	trace sand & gravel, very		
SS 13 M 1-3-3-4 - 2 -	stiff		.0	
1 28 (6)				
3 -				
SS 15 M 3-7-5-11 - 4 -		4	.0	
5				
- 6 -		CL		
7 -				
8 -	Hard			
SS 24 M 3-8-6-11 9 -  10  WATER ENCOUNTERED DURIN  WATER LEVEL AT COMPLETIO  NOTES: 1) Stratification lines between soil type			.5	
10	10.0 End of Boring a	t 10.0 ft.		
	WATER LEVEL & CAVE	IN ORSERVATION DATA		
VALENCOON LINED DON			NMR	WET [
WATER LEVEL AT COMPLETIO	NG DRILLING: NE		NMR NMR	WET DRY DRY DRY

SE NEW 30	WI E	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01					G ID	):	MP50
OFTRANS	Mad	ison,	WI 53704	и. ,		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR: AET	DRILLING CONTRACTOR PROJECT	NO:		ORTHIN	3724	138.61	<b>7</b>	ASTING: 603091.95
ATE STAR				1/13/	15	REW CHIEF: MD	DRILL RIG:			OORDIN				WCC
OATE COMP	LETED:			1/13/	15	OGGED BY: AET	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
COUNTY:				Ozauk	ee	og qc BY: <b>C. Wierzchowski</b>						VATION:		N.
STATION 2	121+0	0SB	OFFSET	100'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/	4 1/4 SECTION:	S	URFACE	ELEVA	ΓΙΟΝ:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De: and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1/2 1/2 2/1/2 2/1/2	12" TOPSOIL  1.0  CLAYEY SAND TO SANDY CLAY, b	roun wat trace gravel von						HSA	
SS 1	10	W 22	2-2-2-4 (4)	- 2-		loose	own, wet, trace graver, very							
SS 2	8	W 17	1-3-2-2 (5)	- 3 -		Loose		SC						
				- 6 -		SILTY CLAY, brown, moist, trace sai	d & gravel, very stiff	CL						
SS 3	21	W 16	5-8-6-10 (14)	- 9 -		10.0			3.5					
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N OBSEDVATION DA	TΛ						
<u> </u>	۸ ۲ ۲ ۲ ۲	ENICO	N INITEDED	ייםו וחיי	IC D				NI.	NIN 4D		—		WET I
	AIEKI		UNTERED L AT COMF			RILLING: 0.25ft.   MMR  ■	CAVE - IN DEPTH AT CO			NMR NMR				WET [ DRY [ WET [ DRY [
	VILD .				1 M	INIVIES								***

DE WISCONSIN	WI [	Dept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:		1229-04-01				BOF		G ID	):	MP51
OF TRANSPO	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
	ROJECT NA	ME:		<b> </b> -4	I3	ONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUDE	Ė		L	ONGITUDE:
ROADWAY	NAME:				Di	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		N	ORTHIN	G: <b>3725</b>	38.42	28 E	ASTING: <b>603122.57</b> 7
DATE STAF	RTED:			12/18/	14 CI	REW CHIEF:	MD	DRILL RIG:			С	OORDIN				WCCS
DATE COM	IPLETED:			12/18/	LC	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	ΓUM:	V	ERTICAL DATUM:
COUNTY:				Ozauke	LC	og qc by: <b>C. Wierzcl</b>		HAMMER TYPE:				TREAMB	ED ELE	VATION:		N/A
STATION	2122+0	nsb	OFFSET	70'	Т	DWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SI	JRFACE	ELEVA	ΓΙΟΝ:		147-
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geol Each Majoi	logical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				- 1-		1.0 SILTY CLAY, brown to light the	brown mo	ottled, moist, trace gravel,							HSA	
SS 1	12	M 16	0-4-2-8 (6)	- 2 -							4.5					
SS 2	22	M 16	3-12-9-15 (21)	4							4.5					
ZAUKEE CO.GPJ 143 8/21/15				- 6 -						CL						
S   S   S   S   S   S   S   S   S   S	24	M 17	5-11-7-13 (18)	- 8 - - 9 -		10.0 End of E	Boring at	10.0 ft.			4.5					
-10-04-01							-									
43/122						WATER LEVEL & C	AVE-I	N OBSERVATION D	ATA							
V ⊈ G	VATER	ENC	DUNTERED	DURIN	IG DI	RILLING: NE	Ĭ <u>S</u>	CAVE - IN DEPTH AT	COMPLI	ETIO	N:	NMR				WET DRY
V V	VATER	LEVE	L AT COMF	LETIO	N:	NMR		CAVE - IN DEPTH AF	TER 0 H	OURS	S:	NMR				WET [ DRY [
NOTES:						esent the approximate boundary; gra	adual trans	sition between in-situ soil laye	rs should b	е ехр	ected.					

OF WISC	ONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJE	CT ID:		1229-04-01				BOF		G II	):	MP52
HTMERYOF	TRANSA	Mad	ison	, WI 53704	ĭ.		WISDOT STRUC	TURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		l-	43	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	WAY N						RILLING CONTRACTOR:	AE	ΞT	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3726	37.2	65 E	ASTING: <b>603309.19</b> 8
	START				1/22/	15	REW CHIEF:	М	D	DRILL RIG:				OORDIN				wccs
DATE	COMP	LETED:			1/22/	15	OGGED BY:	AE	ΞT	HOLE SIZE:		4	·in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUN	ITY:				Ozauk	L	OG QC BY:	C. Wierzchows		HAMMER TYPE:			S	TREAME	BED ELE	VATION	1:	N/
STAT	ON <b>2</b>	123+0	0NB	OFFSET	70'	Rt T	OWNSHIP: RAN		N:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Rock Do and Geologica Each Major Unit	I C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	11	W 22	0-3-1-6 (4)	- 2 -	11 - 14 1 12 - 14 1	1.0	rown, wet, trace gra	avel	, very stiff			4.0				HSA	
	SS 2	22	W 19	3-9-7-14 (16)	- 4 -		Hard						4.5					
					- 6 - - 7 - - 8 -		Very stiff					CL						
NO.	SS 3	23	W 18	9-10-6-12 (16)	- 9 -		10.0						3.25					
					10			End of Boring	at	10.0 ft.								
							W/ATED I	F\/F  & C^\/=		N OBSERVATION D	ΔΤΔ							
$\overline{\nabla}$	10/	ΔTED	ENICO	OUNTERED	אוסו וח נ	IC D			:-II` ∰_	CAVE - IN DEPTH AT		I ETIC	NI.	NMR				WET [
<u> </u>	+			L AT COMF			NMR	<u></u>		CAVE - IN DEPTH AT				NMR				WET DRY DRY DRY DRY
NO.								houndary: gradual tre	ans	ition between in-situ soil laye								DRY [
L							esent the approximate irement Recorded		13	sourcon in-situ soii idyei	Jonoull	. 20 GX	Jooieu.					

OED (	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP53
HATTHERS	OF TRANSPOR	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		l-4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N						RILLING CONTRACTOR:  AET	т	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3728		74 E	ASTING: 603340.447
	E START				1/22/	15	REW CHIEF: MC	D	DRILL RIG:					NATE SY			wccs
DAT	E COMP	LETED:			1/22/	15	OGGED BY:	т	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	JNTY:				Ozauke	e	og QC BY: <b>C. Wierzchowsk</b>	κi	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	N/
STA	TION 2	125+0	0NB	OFFSET	100'	Rt T	OWNSHIP: RANGE: SECTION:	1:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		
TOVE TI JOHN A Q	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	11	W 50	0-5-3-6 (8)	- 1 -		36" TOPSOIL									HSA	
	SS 2	12	W 36	1-3-2-4 (5)	- 4 -		CLAYEY LOAM, dark gray, wet, stiff		. gravel von stiff		CL-MI	. 1.25					
22-04-01 OZAUKEE CO. GPJ 143 921/16					- 6 - - 7 -		GETT GETT, Bown, wei, trace sain		cycles, very sum		CL						
3 - SILVERSPRING DR TO STH 60(GINT/122	SS 3	24	W 23	1-6-3-8 (9)	- 9 -		10.0					3.25					
14:01					10		End of Boring a	at 1	0.0 ft.								
41229-04							WATER LEVEL & CAVE-	_11	I ORSERVATION D	ΔΤΛ							
Kee 143	7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ATFR	FNCC	OUNTERED	DI IDIV	ול טו			CAVE - IN DEPTH AT		l FTIC	N.	NMR				WET DRY
Slozauk				L AT COMF			NMR		CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
<u></u>							resent the approximate boundary; gradual train	- 1									DKY [
§							urement Recorded			, JJul	0 0/						

Long	630 44	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP54
1.43   Section   1.44   Section   1.42   Section   1.44   Section   1.4	HATTMEN	OF TRANS	Mad	ison														1 of 1
AET   Major				ME:		I	43											
17215   1721									AET		CT NO:				3729		59 E	ASTING: 603310.916
12215   10   10   12215   10   10   10   10   10   10   10						1/22/	15		MD									wccs
SS   10   M   0-10-2   2   2   2   2   2   2   2   2   2			LETED:			1/22/	15		AET			4	in					ERTICAL DATUM:
SS   10   M   0-1-0-2   2   2   2   2   2   2   2   2   2						Ozauk	ee	C. Wierzchov	vski								l:	NA
SS   10   M   0-1-0-2   2   2   2   2   2   2   2   2   2	STA	TION 2	125+7	5NB	OFFSET	70'	Rt T	OWNSHIP: RANGE: SECT	TION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SS 10 M 0-10-2 2 3 3 3.0 CLAYEY LOAM, dark gray/brown, moist, medium  SS 24 M 1-3-2-3 4 5 5.0 SiLTY CLAY, brown, moist, trace sand, very stiff  CL-ML  SS 24 M 2-7-3-11 9 3 3.60  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL & CAVE-IN DEPTH AT ERO HOURS MARE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL & CAVE-IN DEPTH AT ERO HOURS MARE  WATER LEVEL & CAVE-IN DEPTH AT ERO HOURS MARE  WATER LEVEL AT COMPLETION: NMR	T 1044 0	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologi	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 24 M 1-3-2-3 - 4 - SILTY CLAY, brown, moist, trace sand, very stiff  CL.ML  SS 24 M 2-7-3-11 - 9 - SILTY CLAY, brown, moist, trace sand, very stiff  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL & CAVE-IN DEPTH AT FETRE O HOURS: NMR WATER LEVEL & CAVE-IN DEPT			10					3.0									HSA	
SS 24 M 2-7-3-11 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR ONTE: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.		SS 2	24		1-3-2-3 (5)	- 4 -		5.0			C	CL-ML						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 7-		GLETT GEAT, GOWII, III GISI, BAGA	e sail	u, very sun		CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  ORY ORY ORY ORY ORY ORY ORY ORY ORY O	43 - SILVERSPRING DR TO STR	SS 3	24			9 -			ng ct	10.0 <del>f</del>			3.60					
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	- 10401							End of Borii	ny at	10.0 IL.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/1229							WATER LEVEL & CAV	/E-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	y V	7 W	ATER	ENCC	DUNTERED	DURIN	NG D					ETIO	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	⋖ ——	_	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	-	CAVE - IN DEPTH AF	TER 0 H	OUR	S:	NMR				WET DRY
	<b></b>	OTES: 1							al trans	l								

Constitution   Cons	MISCONSIN 3	WI [	Dept.	of Transp	ortati	on		WISDOT P	PROJEC	CT ID:			1229-04-0	01					RIN	G II	<b>)</b> :	MP55
March   Marc	OF TRANSPOR	Mad	lison	, WI 53704	4. 4				STRUCT	TURE ID:												1 of 1
ACT			AME:		I-	43																
11/07/14   OCUMPY									ΓOR:		AE1	Γ 📗		PROJEC'	T NO:				3814	487.6	21	ASTING: 603313.182
A					11/07/	14					ME	ו כ										wccs
STATION   2211+50NB   OFFSET   60 Rt   OWNSHIP   RANGE   SECTION:   144 M SECTION:   144 M SECTION:   SUPERIOR ELEVATION:   SUPERI		PLETED:			11/07/	14					AE1	Γ				4	in					ERTICAL DATUM:
Characteristic   Char	COUNTY:				Ozauk	ee				C. Wier	rzchowsk	(i	AMMER TYPE:					TREAM	BED ELE	VATION	l:	N/
SS 15 M 2-5-3-8 4 Hard  SS 15 M 2-5-3-8 4 A S	STATION 2	211+5	0NB	OFFSET	60'	Rt	TOWNSHII	P:	RANG	BE:	SECTION:	:	1/4 SECTION:		1/4 1/4 S	ECTION	: 8	URFAC	E ELEVA	TION:		
SS 15 M 2-5-3-8 4 Hard  SS 15 M 2-5-3-8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				E	and G	Seological	Ori	gin for			USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 15 M 2-5-3-8 - 4					- 1 -	1/2 1/2 1/2 1/2 1/3 1/4	0.7 S			own, wet	t to moist, tr	race	sand & gravel, stiff				-				HSA	
SS 2 15 M 2-5-3-8 - 4 - 5 - 5 - CL		6		0-3-1-3 (4)													1.75	5				
- 6 - CL	SS 2	15		2-5-3-8 (8)			H	lard									4.5					
SS 3 24 M 4-12-8-14 9 4.5					- 6 -											CL						
End of Boring at 10.0 ft.	SS 3	24		4-12-8-14 (20)			10.0			End	of Boring a	at 10	.0 ft.				4.5					
- Lind of 250 mg dt 15.5 ft.																						
WATER LEVEL & CAVE-IN OBSERVATION DATA							,	WATE	R LE	EVEL 8	& CAVE-	·IN	OBSERVATIO	N D	ATA							
y WATER ENCOUNTERED DURING DRILLING: NE	$\square$ w	ATER	ENCC	DUNTERED	DURI	NG D	RILLIN	IG: NI	E		E	4 (	CAVE - IN DEPTH	H AT C	COMP	LETIC	N:	NMR	2			WET DRY
WATER LEVEL AT COMPLETION: NMR	∡ w	ATER	LEVE	L AT COMP	PLETIO	N:	NMR				Ī	L	CAVE - IN DEPTH	H AFT	ER 0	HOUF	RS:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES:									boundary,	; gradual trai	nsitic	on between in-situ soi	il layers	should	d be ex	pected	!				

OFF A ST	350	Jept. 2 Kin	of Trans	portatio /d.	on _	WISDOT PROJECT ID:	1229-04-01					G ID	MP!	56
OF TRAMBO	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			1 0	f 1
WISDOT PR		ME:		l-	43	ONSULTANT:				ATITUDE			LONGITUDE:	
ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO	:			3815	87.693	EASTING: 603228.2	26
DATE STAR				1/21/	15	REW CHIEF: MD	DRILL RIG:			OORDIN			WC	C
DATE COMP	LETED:			1/21/	15	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VERTICAL DATUM:	
COUNTY: STATION			OFFSET	Ozauk	ee T	OG QC BY:  C. Wierzchowski OWNSHIP: RANGE: SECTION:	HAMMER TYPE:  1/4 SECTION: 1/4 1	/4 SECTION:		JRFACE				N
2	212+5	0NB		25'	<u>Lt </u>									_
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes	
				1 -		12" TOPSOIL  1.0  CLAYEY LOAM, reddish brown, mois	t, trace gravel, medium					H	SA	
SS 1	8	M 19	2-4-2-4 (6)	- 2 -		3.0 SILTY CLAY, brown, moist, trace sar	d, medium	CL-ML	1.0					
SS 2	13	M 21	2-3-2-5 (5)	- 4 -					1.0					
				- 6 -				CL						
SS 3	24	M 22	2-8-4-9 (12)	- 9 -		Stiff			2.0					
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION DAT	<u> </u>						_
<u> </u>	ATER	ENCC	OUNTERE	D DURIN	NG D		CAVE - IN DEPTH AT COI		N:	NMR			WE DR	
			L AT COM			NMR <b>I</b>	CAVE - IN DEPTH AFTER			NMR			DR WE	RY [ ET [ RY [
				n soil type	es repr	resent the approximate boundary; gradual trans							DK	

DEF.	ISCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	MP57
MATINET	OFTRANS	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: <b>3816</b>	37.5	84	ASTING: <b>603358.308</b>
DA	TE STAR	TED:			11/07/	14 °	REW CHIEF:	MD	DRILL RIG:			С	OORDIN				wccs
DA	TE COMP	LETED:			11/07/	L	OGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	TAL DA	TUM:	VI	ERTICAL DATUM:
СО	UNTY:				Ozauk	L	og qc BY:  C. Wierzcho		HAMMER TYPE:				TREAME	ED ELE	VATION	:	N/A
STA	ATION 2	213+0	NNR	OFFSET	105'	Т	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SI	JRFACE	ELEVA	TION:		107-
									l								
	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		Soil / Roc and Geolo Each Major l	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2										HSA	
			27		+ 1 -	77	1.2 SILTY CLAY, brown mottled, n	noist, tr	ace sand, stiff			=					
$\backslash /$																	
١V	SS	16	М	0-3-3-4	- 2 -							2.0					
۱٨	1	10	29	(6)	_							2.0					
//																	
	$\bigvee$																
					+ 3 -		Medium										
\ /																	
W																	
ΙX	SS 2	14	M 25	2-3-3-4 (6)	- 4 -												
I/																	
//											CL						
$\vdash$	1				- 5-												
					- 6 -												
					$ $ $\nabla$												
21/15					_												
8					7 -												
0.GPJ																	
UKEE					_												
4-01 OZ,					8 -	1	8.0 SILTY CLAY, gray/brown, mois	st, little	sand & gravel, very stiff			1					
11229-0-																	
EN/GIN1																	
-O STH	SS 3	16	W 13	2-5-2-6 (7)	- 9 -	1//					CL	2.25					
NG DR 1			10	(,,													
ERSPRI																	
13 - SILV					10		10.0	rina -'	10.0 ft								
SOUNTIESIOZAUKEE  43/1229-04-01 - 143 - SILVERSPRING DR TO STH ØNGINT/1229-04-01 OZAUKEE CO. GPJ 143 82/1/15  Z							End of Bo	лиу ат	10.0 II.								
43/1229							WATER LEVEL & CA	VE-II	OBSERVATION D	ATA							
ZAUKEEV		ATER	ENCC	DUNTERED	DURII	NG D	RILLING: 6.3ft.	Ĭ <u>S</u>	CAVE - IN DEPTH AT	COMPLI	ETIO	N:	7.6ft.				WET DRY
TIES/OZ				L AT COMF			NMR	Ī	CAVE - IN DEPTH AFT				NMR				WET  DRY
N N							esent the approximate boundary; gradu urement Recorded	ual trans	sition between in-situ soil layers	s should b	ре ехр	ected.					

1/21/15 AET 4 in COUNTY: LOG OC BY: HAMMER TYPE: STREAMBED ELEVATION:	
ROADWAY NAME:  DATE STARTED:  DATE COMPLETED:  1/21/15  DATE COMPLETED	NG: 603228.35 WCCS
AET 381687.693  DATE STARTED: 1/21/15 CREW CHIEF: MD DRILL RIG: COORDINATE SYSTEM:  DATE COMPLETED: LOGGED BY: HOLE SIZE: 4 in COUNTY: STREAMBED FLEVATION:	603228.35 WCCS
DATE STARTED:  1/21/15  CREW CHIEF:  MD  DRILL RIG:  COORDINATE SYSTEM:  COUNTY:  LOGGED BY:  LOG GC BY:  LOG GC BY:  HAMMER TYPE:  STREAMBED ELEVATION:	wccs
DATE COMPLETED:  1/21/15  LOG GC BY:  HOLE SIZE:  HORIZONTAL DATUM: VERTING  VERTING  LOG GC BY:  HAMMER TYPE:  STREAMBED EL EVATION:	CAL DATUM:
COUNTY: LOG OC BY: HAMMER TYPE: STREAMBED ELEVATION:	
Ozaukee C. Wierzchowski	N/
STATION OFFSET TOWNSHIP: RANGE: SECTION: 1/4 SECTION: 1/4 1/4 SECTION: SURFACE ELEVATION:	
SAMPLE TYPE NUMBER NOINTS (RQD) Noisture (#) (#) (#) (#) (#)  Coounts (RQD) Strength Qp (Ist) Liquid Limit (%) Plasticity Index (%) Boulders Drilling Method	Notes
12" TOPSOIL  HSA  SILTY CLAY, brown, moist, trace sand, very stiff	
SS 10 M 2-3-2-4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
SS 18 M 1-3-3-6 - 4 - 3.5	
- 6 - CL	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	
0000	
WATER LEVEL & CAVE-IN OBSERVATION DATA	
₩ WATER ENCOUNTERED DURING DRILLING: NE	WET DRY
₩ WATER LEVEL AT COMPLETION: NMR	WET [ DRY [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	

· 0Eb	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				OR	INC	3 ID	):	MP59
MATHER	OFTRANSPOR	Mad	lison	, WI 53704	u. 		WISDOT STRUCTURE ID:						SE NO:				1 of 1
		OJECT NA	ME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:				TTUDE:				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJ	ECT NO:				3818	37.60	9   [	ASTING: <b>603328.47</b>
	TE STAR				11/12/	14	REW CHIEF:	MD	DRILL RIG:				ORDINA <sup>*</sup>				wccs
DA	TE COMP	LETED:			11/12/	14	OGGED BY:	AET	HOLE SIZE:		4 in		RIZONTA	AL DAT	TUM:	V	ERTICAL DATUM:
	JNTY:				Ozauk	ee		erzchowski					REAMBE				N/
STA	TION <b>2</b>	215+0	0NB	OFFSET	75'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ΓΙΟΝ:	SUF	RFACE E	LEVAT	ION:		
i i	SAMPLE 1 YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and ( Each N	/ Rock Des Geological ( ∕/Aajor Unit / (	Origin for		Strength On	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	11	M 20	3-5-3-6 (8)	- 1 -		12" TOPSOIL  1.0  SILTY CLAY, brown, m	oist, trace fine	gravel, very stiff		3	3.0				HSA	
	SS 2	23	M 17	4-10-7-12 (17)	3 -		Hard				4	5					
TOZAUKEE CO.GPJ 143 8/27/15					- 6 -		Voncetiff				CL						
SOUNTENOUZAUKEULASITZEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	SS 3	22	M 18	3-9-7-10 (16)	- 9 -		Very stiff	4.60	40.04		4	·.0					
401 - L0					. •		En	d of Boring at	1υ.0 π.								
31229-0 31229-0							WATER I EVE	& CA\/F-I	N OBSERVATION I	 ΟΔΤΔ							
Z	7 w	ATER	ENCC	DUNTERED	DURIN	NG DI		BE LEE	CAVE - IN DEPTH AT		TION.	N	IMR				WET DRY
Silozaur Z				L AT COMF			NMR	1954	CAVE - IN DEPTH AF				MR				DRY _ WET _ DRY _
NO NO							resent the approximate boundar	ry; gradual tran									ואל ב
							urement Recorded				,						

S Neconsin	WI E	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF	RIN	G ID	):	MP60
OF TRANS	Mad	ison,	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PF		ME:		l-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				NGITUDE:
ROADWAY						PRILLING CONTRACTOR:		CT NO:			3826	38.04	<b>2</b>   EA	STING: 603108.146
DATE STAR				12/11/	14	CREW CHIEF:				OORDIN				wccs
DATE COM	PLETED:			12/11/	14	OGGED BY: AET		4	in	ORIZON'			VE	RTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY:  C. Wierzchowsk				TREAMB				NA
STATION	2223+0	0SB	OFFSET	95'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA	ΓΙΟΝ:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1 -		12" TOPSOIL  1.0  SILTY CLAY, brown, moist, trace sa	nd, very stiff					ŀ	HSA	
SS 1	13	M 20	1-4-2-4 (6)	- 2-					2.75					
SS 2	22	M 18	2-7-5-9 (12)	- 3 -		Hard			4.5					
1				- 6 - - 7 -				CL						
SS 3	24	M 17	4-10-7-12 (17)	- 8 -		Gray/brown, very stiff			3.8					
			1	<del>' 10 -</del>	1//	End of Boring a	10.0 ft.							
						WATER LEVEL & CAVE-	N OBSERVATION D	ATA						
_	/ATER	ENCC	UNTERED	DURI	NG D	RILLING: NE	CAVE - IN DEPTH AT	COMPLETIO	N:	NMR				WET DRY
	ATER I	_EVE	L AT COMP	PLETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOURS	3:	NMR				WET [ DRY [
$\bar{A}$ N	,													

130 ·	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP61
MATTHERS	OFTRANSIO	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		1-4	13	ONSULTANT:		CONSULTANT PROJECT NO:			LA	ATITUDE	Ē:		L	ONGITUDE:
RO	ADWAY N	NAME:				DI	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3828	37.69	92 E	ASTING: <b>603229.313</b>
DA	TE STAR	TED:			1/21/	15 CI	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	IATE SY	STEM:		wccs
DA	TE COMP	LETED:			1/21/	15	OGGED BY:	AET	HOLE SIZE:		4 i		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:			(	Ozauke	LC	OG QC BY: C. Wierzo	chowski	HAMMER TYPE:			ST	reamb	ED ELE	VATION:		N/
STA	ATION 2	225+0	0NB	OFFSET	25'	Lt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SU	JRFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geo Each Majo	Rock Des Blogical ( or Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	12	M 19	1-4-3-6 (7)	- 1 - - 2 -		12" TOPSOIL  1.0  SILTY CLAY, gray/brown, n	noist, traco	e sand, very stiff			3.75				HSA	
	SS 2	13	M 20	2-4-3-5 (7)	- 4 -							3.0					
-01 OZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -						CL						
SOUNTESOCAUCEELLANTZB-04-01 - 1-43 - SIVJEKSPRING DR TO STH 80/GIN NTZB-04-01 OZAUCEE OD GPJ 1-43 8/2/1/5  N 1/2 1/2 1	SS 3	24	M 18	3-9-5-10 (14)	- 9 -		10.0					4.0					
- 143					10			Boring at	10.0 ft.								
229-04							\\\ATED   E\\'E\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	2 A \ / E . !	N ODOEDVATION:	\ T ^							
- F	7   1	ATC-	- NO	OLINITEDES.	DUD"	10.5	WATER LEVEL & (						NIN 4TT				WFT F
	_			DUNTERED					CAVE - IN DEPTH AT				NMR				WET DRY WET
NTIES/OZ	-			L AT COMF			NMR	rodust to	CAVE - IN DEPTH AF				NMR				WET [ DRY [
							resent the approximate boundary; grurement Recorded	auuai trani	มแบบ ม <del>ะ</del> เพะยก เก-รเเน รดแ laye	ะเร รกงนเส ม	е ехре	ысеа.					

MISCO	NSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PR	ROJECT ID:		1229-04-0	)1			BOF		G IE	):	MP62
HTM OF T	RANSO	Mad	ison	, WI 53704	۵. ا			RUCTURE ID:						AGE NO				1 of 1
		JECT NA	ME:		l-	43	ONSULTANT:			CONSULTANT PROJECT N				ATITUDI				ONGITUDE:
ROAD	WAY N	AME:				D	RILLING CONTRACTO	DR:	AET	DRILLING CONTRACTOR P	ROJECT NO:			IORTHIN	3828	37.62	22 E	ASTING: <b>603313.313</b>
	START				11/12/	14	REW CHIEF:		MD	DRILL RIG:				OORDIN				wccs
DATE	COMPL	ETED:			11/12/	14	OGGED BY:		AET	HOLE SIZE:		4	in ⊦	IORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COUN	TY:				Ozauk	ee Lo	OG QC BY:	C. Wie	rzchowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION		N/
STATI	ON <b>2</b> 2	225+0	ONB	OFFSET	59'	Rt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4	SECTION	S	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and C	/ Rock Des Seological ( lajor Unit / (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	14	M 16	1-3-2-4 (5)	- 2 -		1.0		n mottled, mo	ist, trace fine gravel, st	iff		2.0				HSA	
	SS 2	15	M 19	2-5-3-6 (8)	- 4 -		Very stiff						3.5					
					- 6 - - 7 -		Hard					CL						
	SS 3	24	M 16	4-11-8-14 (19)	- 9 -		10.0						4.5					
					10			End	d of Boring at	10.0 ft.	<u> </u>							
$\vdash$							\ <b>\</b> / \ T = =	סוביירי	9 CA\/E !!	N ODSCOVATIO	NDATA							
$\overline{\nabla}$	10/	\TED	ENICC	DUNTERED	י טו וטיי	אכי ביי			& CAVE-II	OBSERVATIO		טו בדיר	NI:	NMR				WET F
<u> </u>	_			L AT COMF			NMR	-	==   res	CAVE - IN DEPTH				NMR				WET DRY DRY DRY DRY
<u>¥</u>								nate houndan	v: gradual trans	sition between in-situ soil								DRY
_,,,,,,							urement Recorded		,, gradudi lidili		.ayoro orioui	- 20 GX						

A MISC	ONSIN.	WI E	ept.	of Transp sman Blv	ortati	on	WI	SDOT PRO	JECT ID:			1229-04-01					RIN	G II	<b>)</b> :	MP63
WHITE OF	TRANSPOR	Mad	ison	, WI 53704					UCTURE ID:	:						AGE NO				1 of 1
		JECT NA	ME:		Į.	43	CONSULTANT					CONSULTANT PROJECT NO:				ATITUD				ONGITUDE:
	WAY N						ORILLING CON	TRACTOR	t:	Α	ΕT	DRILLING CONTRACTOR PROJE	CT NO:			IORTHIN	3828	338.0		ASTING: <b>603148.314</b>
	START				12/11/	14	CREW CHIEF:			N	/ID	DRILL RIG:					NATE SY			wccs
	COMPL	ETED:			12/11/	14	LOGGED BY:			Α	ΕT	HOLE SIZE:		4	in		NTAL DA			ERTICAL DATUM:
COUN					Ozauk	ee	LOG QC BY:			ierzchows	ski	HAMMER TYPE:					BED ELE		l:	NA
STAT	ON <b>2</b> 2	225+0	0SB	OFFSET	48'	Lt	FOWNSHIP:	R/	ANGE:	SECTION	ON:	1/4 SECTION:	1/4 1/4 S	SECTION	: S	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and	oil / Rock [   Geologic   Major Uni	al C	cription Origin for Comments		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	6	M 10	3-2-1-2 (3)	- 1		MED grave	IUM TO el, very k	COARSE oose 36"	E SAND, bro BASE COU	own/ RSE	dark brown, moist, with		GW					HSA	
	SS 2	10	M 19	2-2-2-3 (4)	- 4			Y CLAY,	, brown, n	moist, POSS	SIBL	E FILL, very stiff		CL	3.75	j				
					- 6 - 7		SAN	DY CLA	Y, brown,	moist, trace	e gra	avel, medium								
$\bigvee$	SS 3	9	M 21	3-2-1-2	- 9 -10- -11									CL	1.0					
O   1	SS 4	24	M 16	3-5-4-7 (9)	- 13 - 14 - 15		13.0 SAN 15.0	DY SILT		oist, trace c		& gravel, very stiff		SM	2.7					
229-04-0																				
EN4342	1								LEVEL			N OBSERVATION D								WET C
Zauke	+			DUNTERED				NE		-		CAVE - IN DEPTH AT				NMR				WET DRY WET WET
NTIES/OZ				L AT COMF			NMR		-4- l			CAVE - IN DEPTH AF				NMR				WET  DRY
NO				lines between countered; NN					ale bounda	ary; gradual t	rans	sition between in-situ soil laye	ıs snould	и ве ех	pected.					

A SOF	3502	ept. Kin	of Transp sman Blv	portatio d.	n _	WISDOT PROJECT ID:	1229-04-01				RINC	G ID:	MP64
OF TRANS	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCLITANT PROJECT NO.			AGE NO:			1 of
WISDOT PR		ME:		J-4	13	DNSULTANT:  RILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT N	0.		ORTHING			LONGITUDE:  EASTING:
						AET		O:			3829	87.612	603324.43
ATE COM				1/23/1	5	REW CHIEF: MD	DRILL RIG: HOLE SIZE:			OORDIN			VERTICAL DATUM:
OATE COMP	PLETED.			1/23/1	15	OGGED BY:  AET OG QC BY:	HAMMER TYPE:	4	in	REAMBE			VERTICAL DATOM.
STATION			OFFSET	Ozauke	e To	C. Wierzchowski  DWNSHIP: RANGE: SECTION:		1/4 SECTION:		JRFACE			N/
	2226+5	ONB		70'	<b>₹</b> t								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Doubling Method Notes
					1/ 2/ 1/ 2/ 1/	12" TOPSOIL						Н	SA
ss	10	M	1-4-3-4	1 1		SILTY CLAY, brown, moist, trace san	d, FILL, stiff		0.0				
1	13	19	(7)	- 2 -		3.0		CL	2.0				
SS 2	13	M 19	2-4-3-4 (7)	- 4 -		SILTY CLAY, dark brown, moist, trace	e sand, medium		0.75				
				5-				CL					
				- 6 -									
				7 -		8.0							
SS 3	23	M 19	3-6-3-8 (9)	- 9 -		SILTY CLAY, brown, moist, trace san	d & gravel, very stiff	CL	3.0				
				10		10.0 End of Boring at	10.0 ft.						
													_
<del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del>			NI IN ITTE		10.5	WATER LEVEL & CAVE-II							WET
_			DUNTERED				CAVE - IN DEPTH AT CO			NMR			WET [ DRY [ WET [
$\mathbf{V} \mid \mathbf{W}$	/ATER I	_EVE	L AT COM	PLE I IOI	ν:	NMR 👢	CAVE - IN DEPTH AFTER	K U HOURS	<b>&gt;</b> :	NMR			WET [ DRY [

Oil Mail	3502	ept. Kin	of Trans	portation	on	WISDOT PROJECT ID:	1229-04-01				RING	D:	MP65
MISDOT D	Mad ROJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			GE NO:			1 of 1
NISDOT PE		uviE:		l-	43	ONSULTANT:		NO:		ATITUDE			
						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT	NO:		ORTHING	38303	37.692	EASTING: 603229.48
ATE STAF				1/21/	15	REW CHIEF: MD	DRILL RIG:				ATE SYS		WCC
ATE COM	PLETED:			1/21/	15	OGGED BY:	HOLE SIZE:	4 ir	า		TAL DATI		VERTICAL DATUM:
COUNTY:			OFFSET	Ozauk	ee To	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION: 1/	4 1/4 SECTION:			ELEVATI		N/
:	2227+0	ONB		25'	Lt								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Suengun യ്യ (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
				1 -		12" TOPSOIL  1.0  SILTY CLAY, reddish brown, moist, tr	ace sand & fine roots, stiff					HS	SA
SS 1	10	M 15	1-3-2-4 (5)	- 2-				CL	1.5				
				3 -		3.0 SILTY CLAY, brown mottled, moist, tr	ace sand, hard						
SS 2	13	M 15	1-8-4-9 (12)	- 4 -					4.5				
				- 6 -				CL					
				8 -		With fine sand lenses, medium							
SS 3	24	M 16	2-4-3-5 (7)	- 9 -					1.0				
				10	<u>///</u>	10.0 End of Boring at	10.0 ft.						
						<b>J</b> • •							
						WATER LEVEL & CAVE-I	N OBSERVATION DA	TA					
	/ATER	ENCC	UNTERE	DURIN	NG DI	RILLING: NE	CAVE - IN DEPTH AT CO	OMPLETION	:	NMR			WET DRY
<u>√</u> v							i .						WET [ DRY [

- Wiecov	VSIN.	WI E	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>)</b> :	MP66
THE OF THE	ANSTO	Mad	ison	, WI 53704	ў. Į		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		JECT NA	ME:		I-	-43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADW							DRILLING CONTRACTOR:	ĒΤ	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3830	38.0	08 <sup> E</sup>	ASTING: <b>603148.48</b> 1
DATE S					12/11/	/14		ID	DRILL RIG:				OORDIN				wccs
DATE C		ETED:			12/11/	/14	LOGGED BY:	ĒΤ	HOLE SIZE:		4	in	IORIZON				ERTICAL DATUM:
COUNT					Ozauk	ee	LOG QC BY:  C. Wierzchows	ki	HAMMER TYPE:				TREAME			l:	N/
STATIO	22	227+0	0SB	OFFSET	53'	Lt	FOWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SE	CTION	: s	URFACE	ELEVA	TION:		
SAMPLE TYPE	NOMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	2	M 32	4-2-1-2	- 1 -		SAND & GRAVEL, brown to dark b petro odor, very loose 36" BASE Co				GW					HSA	
S	SS 2	10	M 10	2-4-4-3 (8)	- 4 -		3.0 FINE TO MEDIUM SAND, brown, n	moi	st, trace gravel, FILL, loose	3	SP						
					- 6 - - 7 - - 2		8.0 SILTY CLAY, brown mottled, moist	t tr	are sand stiff								
	3 3	11	W 19	1-2-2-4 (4)	- 9 -		10.0	u, U	acc same, sum		CL	2.0					
					10	- /-	End of Boring	at	10.0 ft.								
<u></u> T							WATER LEVEL & CAVE										NATE T
<u> </u>				DUNTERED				<u></u>	CAVE - IN DEPTH AT				8ft.				WET [ DRY [
$\bar{\Lambda}$				L AT COMF				_	CAVE - IN DEPTH AF				NMR				WET [ DRY [
	ES: 1)	) Stratifi	cation	lines between	soil type	es rep	NMR  present the approximate boundary; gradual transference transferen	=									Ď

CONSULTANT:  CONSULTANT:  CONSULTANT:  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  CONGULTANT:  CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT NO:  AET  ATE STARTED:  TI/1/2/14  ATE COMPLETED:  TI/1/2/14  CORW CHIEF:  MD  AET  MD  AET  AET  AET  AET  AIN  CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT NO:  NORTHING:  383137.623  603311  COORDINATE SYSTEM:  W  HOLE SIZE:  4 in  HORIZONTAL DATUM:  VERTICAL DATUM:  VERTICAL DATUM:  OZAUKEE  C. Wierzchowski	WISCONSIN B	WI [	Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	):	MP67
March   Marc	OF TRANSPORT	Mad	lison	, WI 53704	4. 1										1 of '
AET   11/12/14   11/			AME:		I-	43									
11/12/14							AE1		CT NO:			3831	137.62	23	ASTING: 603311.56
11/12/14   Ozaukee   Oza					11/12/	14	CREW CHIEF: MC								WCC
Company   Comp	ATE COMP	LETED:			11/12/	14 L	OGGED BY:	HOLE SIZE:	4		HORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   16   M   1-4-3-5   4	OUNTY:				Ozauk	ee L	C. Wierzchowsk	HAMMER TYPE:		S	TREAME	BED ELE	VATION:		N/
Sample   September   Septemb	TATION 2	228+0	0NB	OFFSET	57'	Rt 1	FOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	: 8	URFACE	ELEVA	TION:		
SS 16 M 1-2-1-1 SILTY CLAY, brown, moist, trace sand, soft  SS 16 M 19 1-4-3-5 - 4 SIIII  SS 16 M 3-9-5-10 9 Hard	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 16 M 3-8-5-10 0					1 -	7117 1 77	<u>1</u> 2 1.0	nd, soft						HSA	A
SS 16 M 1-4-3-5 - 4 - 2.0  CL 2.0  SS 16 M 3-8-5-10 0 0 Hard		8		1-2-1-1 (3)	- 2 -										
SS 16 M 3-8-5-10 9	SS 2	16		1-4-3-5			Stiff			2.0					
SS 16 M 3-8-5-10 Q					- 6 -				CL						
10.0		16								4.25	5				
10 End of Boring at 10.0 ft.	1	1		1	<del>' 10</del>	1//		10.0 ft.		1	1				1
WATER LEVEL & CAVE-IN OBSERVATION DATA															
		ATER	ENC	DUNTERED	DURI	NG D	PRILLING: NE	CAVE - IN DEPTH AT	COMPLETIC	N:	NMR				WET [ DRY [
▼ WATER LEVEL AT COMPLETION: NMR	Ţ w	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOUR	RS:	NMR				WET   DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded								sition between in-situ soil laye	rs should be exp	pected					

Marche   March   Mar	130 .	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT	PROJECT ID	D:		1229-04-0	01			BO		G II	<b>)</b> :	MP68
1.4.2	ARTIMEN	OFTRANS	Mad	ison					STRUCTUR	E ID:										1 of 1
March   Marc				ME:		I	43					CONSULTANT PROJECT N	10:		L	ATITUDI	E:		L	ONGITUDE:
March   Marc	RO	ADWAY N	NAME:				D	RILLING CONTRAC	TOR:		AET	DRILLING CONTRACTOR F	PROJECT NO:		N	IORTHIN	IG: 3832	237.6	92 E	ASTING: <b>603229.649</b>
Second   Compare   Compa	DA <sup>*</sup>	TE STAR	TED:			1/21/	15 <sup>C</sup>	REW CHIEF:			MD	DRILL RIG:			C	OORDIN	NATE SY	'STEM:		
SS   12 M   1-2-3   - 2   - 3   - 3   - 4   - 4   - 3   - 4   -	DA	TE COMP	LETED:				L	OGGED BY:				HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   12   M   1-2-2-3   10   Sultry CLAY, brown, miss, trace sand & grand, medium   SS   12   M   1-2-3-3   4   15   15   15   15   15   15   15	СО	UNTY:					L	OG QC BY:	С			HAMMER TYPE:				TREAME	BED ELE	VATION	l:	NA
Second Procession Continued to the second	STA	ATION 2	229+0	NNR			T	OWNSHIP:		SEC	TION:	1/4 SECTION:	1/4 1/4	SECTION	: s	URFACE	ELEVA	TION:		10
SS   12   M   1-2-2-3   2   SILTY CLAY, brown, moist, brace sand & gravel, medium												I								
SS   12   M   1-2-2-3   2	1	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			a Ea	and Geolog	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders		
SS   12   M   1-2-2-3   4   3   3   3   4   5   5   5   5   5   5   5   5   5						- 1 -		1.0											HSA	A
SS   16   M   0-2-1-3   4			12		1-2-2-3 (4)	- 2 -		SILTY CL	.AY, brow	n, moist, trac	e san	d & gravel, medium			1.0					
SS 24 M 2-3-3-4 9 Stiff  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR WATER LEVEL		SS 2	16		0-2-1-3 (3)	- 4 -									1.0					
SS 3 24 M 2-3-3-4 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	OZAUKEE CO.GPJ 143 9/21/16					- 6 -								CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE WATER ENCOUNTERED DURING DRILLING: NE WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL	143 - SILVERSPRING DR TO STH 60/GINT/1228-04-01	SS 3	24		2-3-3-4 (6)					End of Bori	ing at	10.0 ft.			1.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	-04-01										J									
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/1228	_	_					WATE	R LEV	'EL & CA\	/E-II	N OBSERVATIO	N DATA	_						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY'  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	Z   w	ATER	ENCC	UNTERED	DURIN	NG DI	RILLING: N	١E		<b>₽</b>	CAVE - IN DEPTH	H AT COME	PLETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z Z	<u>v</u>	ATER	LEVE	L AT COMF	PLETIO	N:	NMR			Ī	CAVE - IN DEPTH	HAFTER 0	HOUF	RS:	NMR				WET DRY
	N									undary; gradua	al trans	sition between in-situ soi	il layers shou	ld be ex	pected.	,				

MISCONSIN	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RING	G IE	<b>)</b> :	MP69
OFTRANS	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTURE I	ID:					GE NO:				1 of 1
WISDOT PR		AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				TITUDE				ONGITUDE:
ROADWAY						ORILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	ECT NO:				3832		)8 E	ASTING: <b>603148.649</b>
DATE STAR				12/11/	14	CREW CHIEF:	MD	DRILL RIG:					ATE SY			wccs
DATE COMP	PLETED:			12/11/	/14	OGGED BY:	AET	HOLE SIZE:		4 ir		ORIZON	TAL DA	ΓUM:	V	ERTICAL DATUM:
COUNTY:				Ozauk	ee	OG QC BY:	Vierzchowski	HAMMER TYPE:			ST	REAMB	ED ELE	VATION	:	N/
STATION	2229+0	0SB	OFFSET	48'	Lt	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SU	RFACE	ELEVA	ΓΙΟN:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	an	ioil / Rock Des d Geological ( n Major Unit / (	Origin for		USCS / AASH I O	راst)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
ss 1 ss	11	M 13 M 19	3-2-1-2 (3)	- 1		MEDIUM TO COARS BASE COURSE  2.5  SILTY CLAY, dark br		VEL, brown, moist 30"	G	;w					HSA	
SS 2	6	M 13	2-2-3-3 (5)	- 4		With sand lenses & o	·	its ith sand, trace gravel, stiff		CL .	1.5					
DOUNTIESOZALUKERI-ASIZB-64-01 - 143 - SILVERSPRING DR TO STH 60/GINTIZZB-04-01 OZALVKEE OG GPJ 143 8/21/15  S S S S S S S S S S S S S S S S S S S	17	M	1-4-3-5	- 6 · - 7 ·		OLIT CLAT, BIOWIT	motted, morst, w	nui sand, uace gravel, sui		CL	1.5					
143 - SILVERSPRING DR TO 3		11	(7)	10		10.0	End of Boring at	10.0 ft.			-					
- 104-01																
143/122						WATER LEVE	L & CAVE-II	N OBSERVATION [	DATA							
AVKEE	ATER	ENCC	UNTERED	DURI	NG E	RILLING: NE	麗	CAVE - IN DEPTH AT	COMPLE	TION	: 1	NMR				WET DRY
W V	ATER	LEVE	L AT COMF	PLETIC	N:	NMR		CAVE - IN DEPTH AF	TER 0 HO	URS	_ N	MR				WET DRY
NOTES:						resent the approximate bound urement Recorded	dary; gradual trans	sition between in-situ soil laye	ers should be	expe	cted.					

Major   Maj	OED A	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT	PROJECT	ID:		1229-0	4-01					RIN	G IE	):	MP70
ASS   23 M   4-12-8-14   0   0   0   0   0   0   0   0   0	MATTHERS	OFTRANSIO	Mad	ison					STRUCTU	RE ID:											1 of 1
AET   March				ME:		I-	43														ONGITUDE:
Mode   Section   Mode   Mod	RO	A YAWDA	NAME:				D	RILLING CONTRAC	CTOR:		AET	DRILLING CONTRACT	OR PROJEC	T NO:		N	IORTHIN	NG: 3834	137.69	92 E	ASTING: <b>603229.816</b>
SS   20 M	DAT	TE STAR	TED:			1/21/	15 <sup>C</sup>	REW CHIEF:			MD	DRILL RIG:				С	OORDIN	NATE SY	'STEM:	•	
SS   15 M   1-6-4-6   2   12 TOPSOL   13 M   1-6-4-6   2   10 M	DAT	TE COMP	LETED:				L	OGGED BY:				HOLE SIZE:			4		IORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
Section	COI	JNTY:					L	OG QC BY:		: Wierzc		HAMMER TYPE:			•		TREAME	BED ELE	VATION	:	NΔ
SS   15   M   1-0-4-6   2   2   10   10   10   10   10   10	STA	TION 2	231+0	NNR			T	OWNSHIP:			SECTION:	1/4 SECTIO	DN:	1/4 1/4 SI	ECTION:	S	URFACE	ELEVA	TION:		147
SS   15   M   16.4-6   2   SILTY CLAY, brown, moist, bace sand & gravel, very stiff   2.25				<u> </u>																	
SS   15   M   1-64-6   2   2.25   2.25   3.75   3	L L	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Ea	and Geo	logical (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
1						- 1-		1.0		wn, moist,	trace san	d & gravel, very sti	ff							HSA	
SS   20   M   2-8-4-8   4			15		1-6-4-6 (10)											2.25	i				
Hard  SS 23 M 4-12-8-14 9    End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR    WATER		SS 2	20		2-8-4-8 (12)	- 4 -										3.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	ZAUNEE CO.OFJ 143 ØZITID					- 6 -									CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET ORY  WET ORY  WATER LEVEL AT COMPLETION: NMR  WET ORY  WET ORY  WET ORY  WATER LEVEL AT COMPLETION: NMR  WET ORY  WET	45 - SILVERSPRING DR 10 STH 80/GIN 1/1228-04-010	SS 3	23		4-12-8-14 (20)					End of	Boring at	10.0 ft.				4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	-1040									_110 01	_cg at										
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/164							WATE	ER LEV	VEL & C	CAVE-II	N OBSERVAT	ION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	į Z	7 w.	ATER	ENC	DUNTERED	DURIN	NG DI					I			LETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z Z																NMR				WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	cation	lines between	soil type	es repr	resent the appro		oundary; gra	adual trans										5 [

NISCONSIN.	WI E	ept. Kin	of Trans sman Blv	portation	on	WISDOT PROJECT ID:		1229-04-01					G ID:	: N	<b>1P7</b> 1
OFTRANS	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:		CONCULTANT DDO 1507 NO			AGE NO:			LONGITUDE	1 of '
	ROJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE			LONGITUDE:	
ROADWAY							AET	DRILLING CONTRACTOR PROJECT NO:				3834	38.042	EASTING: 6031	08.817
DATE COM				1/29/	15	REW CHIEF:	MD	DRILL RIG: HOLE SIZE:			OORDIN ORIZON			VERTICAL DATUM	wcc
DATE COM	PLETED:			1/29/	15		AET		4	in				VERTICAL DATUM	1:
COUNTY: STATION			OFFSET	Ozauk	ee T	OG QC BY:  C. Wierzchov OWNSHIP: RANGE: SEC	VSKI	HAMMER TYPE:	SECTION		JRFACE		VATION:		N/
	<u>2231+0</u>	0SB		100'	<u>Lt </u>										
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	es
				<u> </u>		12" TOPSOIL  1.0  SILTY CLAY, gray/brown mottle	d, mo	st, trace fine roots, stiff					H	SA	
SS 1	13	M 25	2-6-4-6 (10)	- 2 -					CL	1.25					
				3 -		3.0 SILTY CLAY, brown, moist, trac	e grav	rel, very stiff							
SS 2	20	M 13	3-6-5-7 (11)	- 4 - 5-						2.25					
				- 6 -					CL						
				- 7 -		Hard									
SS 3	23	M 17	5-11-7-1; (18)	3 - 9 -						4.5					
				10	<u> </u>	10.0 End of Bori	ng at	10.0 ft.							
			_	_		WATER LEVEL & CAV	/E-II	N OBSERVATION DATA	_				_		
	/ATER	ENCC	UNTERE	D DURII	NG D	RILLING: NE	屬	CAVE - IN DEPTH AT COM	PLETIC	N:	NMR				WET DRY DRY DRY

Mail	Wisconsin V	VI Dept	t. of Tran	nsporta	tion		WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP72
143	OFTRANSO	<i>l</i> ladiso	n, WI 53	704													1 of 1
AET					I-43												ONGITUDE:
DATE CONFIDENCE   11/12/14   CONFIDENCE	ROADWAY NAME	≣:				DRIL	LLING CONTRACTOR:	ÆΤ		T NO:				3835		08 E	ASTING: <b>603329.</b>
SARE CORPT   FEB.   CORPT   COUNTY	DATE STARTED:			11/1	2/14	CRE	W CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:	·	wccs
COUNTY   C	DATE COMPLETE	ED:				LOG	GGED BY:	ÆΤ	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SOIL FORM MANUAL SECTION.    MANUAL PROPERTY   M	COUNTY:					LOG	OC BY:		HAMMER TYPE:				ΓREAME	BED ELE	VATION	:	N/
SS   11   M   1-1-2-3   2   1.0   CLAYEY SILT, gray mottled, moist, soft   SS   21   M   3-8-6-9   4   SS   2   1   M   3 -8-6-9   4   SS   2   1   M   3 -8-6-9   4   SS   CLAYE, brown, moist, trace sand & gravel, hard   CL   CL   CL   CL   CL   CL   CL   C	STATION 223	2±00NB	OFFSET			TOV	VNSHIP: RANGE: SECT	ION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SI	JRFACE	ELEVA"	TION:		147-
1 12*TOPSOIL  1 12*TOPSOIL  1 12*TOPSOIL  1 10 CLAYEY SILT, gray mottled, moist, soft  CL-ML  SS 2 21 M 3-8-6-9 - 4 6 6 6 6 6 6				Τ,		1											
SS 11 M 19 1-1-2-3 2 2 3 3.0 SILTY CLAY, brown, moist, trace sand & gravel, hard  SS 2 11 M 3-8-6-9 4 4.5	SAMPLE TYPE NUMBER RECOVERY (in)	(RQD) Moisture	BLOW	(N VALUE) Depth	(#)	Grapnic	and Geologic	cal (	Origin for		USCS / AASHIO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
1					<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>	<u>'</u> \'	1.0	ist, s	oft							HSA	
SS 21 M 3-8-6-9 (14) - 4 - 5 - 6 - 6 - CL			1-1-2			3				CL	-ML						
CL CL	SS 2		3-8-6 (14)	-9 _ 4	1/		SILTY CLAY, brown, moist, trace	e san	d & gravel, hard			4.5					
SS 24 M 3-7-6-9 9 10.0 End of Boring at 10.0 ft.				- 7	,						CL						
Life of boiling at 10.0 ft.	SS 3 2			-9 ,		1		ng at	10 O ft			4.5					
							EIIU OI BOIII	ıy al	10.0 IL.								
WATER LEVEL & CAVE-IN OBSERVATION DATA							WATER LEVEL & CAV	E-II	N OBSERVATION DA	ATA							
WATER ENCOUNTERED DURING DRILLING: NE	□ WATE	ER ENC	OUNTER	ED DU	RING	DRI					TIOI	N:	NMR				WET DRY
▼ WATER LEVEL AT COMPLETION: NMR  ■ CAVE - IN DEPTH AFTER 0 HOURS: NMR																	WET C
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	_							trans									ואנו _

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  LONGITUDE:  AET  DRILLING CONTRACTOR PROJECT NO:  NORTHING:  383637.692  603229.98	OE WIS	CONSIN.	WI [	Dept.	of Transp	ortatio	on	WISDOT	PROJEC	T ID:		1229	9-04-01				BOF		G IE	): 	MP73
COMPANDED   CONTRACTOR   CONT	SHIME OF O	FTRANSPO	Mad	lison	, WI 53704	u. 			STRUCT	URE ID:											1 of 1
AFT   MEDICAL PROPERTY   MEDIC				ME:		I-	43														ONGITUDE:
DATE STATED	ROA	DWAY N	IAME:				D	RILLING CONTRAC	CTOR:		AET	DRILLING CONTE	RACTOR PROJE	CT NO:		N	IORTHIN	ig: <b>3836</b>	37.6	92   5/	ASTING: <b>603229.98</b> 4
DOTE COMPTENDED   1/21/15   COMPTENDED   C	DATE	STAR	ΓED:			1/21/	15 C	REW CHIEF:				DRILL RIG:				C	OORDIN				WCCS
COUNTY   C	DATE	COMP	LETED:				L	OGGED BY:				HOLE SIZE:			4		IORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
STATION   22339-00NB   OFFEET   25° Lt   TOWNSHIFT   PANCE   SECTION   SECTION   SUPPLICION	COU	NTY:					L	OG QC BY:		C. Wierzo		HAMMER TYPE:					TREAME	BED ELE	VATION	:	N/
SS   19   M   2-5-4-6   - 4     SS   2   19   M   2-5-4-6   - 4     - 6   -	STAT	TION 2	233+0	NNR			T	OWNSHIP:			SECTION:	1/4 SI	ECTION:	1/4 1/4 S	ECTION:	s	URFACE	ELEVA	TION:		10
SS 19 M 2-5-4-6 (9) - 2 SILTY CLAY, brown, moist, trace sand & gravel, very stiff 2.5																					
1	SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			E	and Ged	ological (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 19 M 2-5-4-6 4 3.25  SS 2 19 M 20 2-5-4-6 4 5 5 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8						- 1 -	1/2 st./ 1/2 st./ 1/2 st./	1.0		own moist	trace san	d&aravel ver	v stiff							HSA	
SS 2 19 M 2-5-4-6 (9) - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			6		1-5-4-4 (9)	- 2 -			,		, 1.200 52		, cui			2.5					
- 6 -		SS 2	19		2-5-4-6 (9)	- 4 -										3.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 6 -									CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  VET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	22		5-13-9-15 (22)					End of	· Boring at	10 0 ft				4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA										Lilu Oi	Joining at										
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY!         ✓       WATER LEVEL AT COMPLETION: NMR       ☐       CAVE - IN DEPTH AFTER 0 HOURS: NMR       WET DRY!         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATI	ER LE	VEL &	CAVE-II	N OBSERV	/ATION [	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	. W	ATER	ENC	DUNTERED	DURIN	NG DI								LETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1	_															NMR				WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	NO	TES: 1	) Stratifi	cation	lines between	soil type	es repr	resent the appro		ooundary; g	radual trans										2.11

0ED /	GCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PRO.	JECT ID:		1229-04-01					RIN	G IE	): 	MP74
HATTACK	OF TRANSPOR	Mad	ison	, WI 53704	u. 1		WISDOT STRU	JCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:			CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:		AET	DRILLING CONTRACTOR PROJE	ECT NO:			IORTHIN	3836	38.0	08 E	ASTING: 603148.984
DAT	E STAR	ΓED:			12/11/	/14	REW CHIEF:		MD	DRILL RIG:			C	OORDIN	NATE SY	STEM:		wccs
DAT	E COMP	LETED:			12/11/	L	OGGED BY:		AET	HOLE SIZE:		4	in H	IORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COL	JNTY:				Ozauk	L	OG QC BY:	C. Wierzcho		HAMMER TYPE:				TREAME	BED ELE	VATION	:	N/
STA	TION 2	233+0	0SB	OFFSET	48'	Т	OWNSHIP: RA	NGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SI	ECTION	: S	URFACE	ELEVA	TION:		
								<u> </u>		1								
T 10 10 10 10 10 10 10 10 10 10 10 10 10	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS		M	3-3-2-3	- 1		MEDIUM TO 30" BASE CC	COARSE SAND & JURSE	& GRA	VEL, brown, moist, loose		GW					HSA	
ΙÅ	1	10	8	(5)	- 2	. 6	•											
			17				2.5											
$/ \setminus$			''				SILTY CLAY,	brown mottled, m	ioist, ti	ace gravel, very stiff to stif	f							
$\vdash$					<del> </del> 3	1//												
1 /																		
$\backslash /$																		
I	SS	40	М	2-3-2-5									20					
$\mathbb{I}$	SS 2	13	29	(5)	4								2.0					
$   \rangle$							}											
$/ \setminus$																		
					<del> </del> 5-	1//												
					- 6	1//	1											
												CL						
							1											
2					- 7		1											
2					[ '	V//												
1																		
					8	1//												
$\mathbb{N}$																		
\	SS 3	18	M 18	3-5-7-4 (12)	- 9	1//	With sand len	202										
	J		10	(12)			vviui sanu len											
$   \rangle  $																		
					10		10.0											
NO.					10			End of Bor	ring at	10.0 ft.								
$\vdash$							WATER	I FVFI & CA	VF-II	N OBSERVATION [	<b>ΔΤΑ</b>							
$\overline{\nabla}$	7 W	ATER	ENCC	OUNTERED	) DURI	NG D		LL V LL & OA		CAVE - IN DEPTH AT		LETIC	DN:	NMR				WET DRY
<u>1</u> <u>∓</u>	_			L AT COMF			NMR			CAVE - IN DEPTH AF				NMR				DRY L WET C DRY C
N								te boundary; gradu	al trans	sition between in-situ soil laye								DRT _
Ľ							urement Recorded	,, g										

Column   C	OEB WIS	CONSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:	1229-04-0	1		BOI		G II	<b>)</b> :	MP75
March   Marc	HIMERYO	FTRANSTO	Mad	ison	, WI 53704	и. ,			Laguage							1 of 1
March   Marc				MÉ:		l-	43									
12/14    1								AET		KOJECT NO:			3838		92	EASTING: 603230.152
Section   Country   Coun						1/21/	15	MD								wccs
Commonweight   Comm			LETED:			1/21/	15	AET			4 in					/ERTICAL DATUM:
SS   23 M   3-2-4-2   9   1-1-1-2   4   1-						Ozauk	ee	C. Wierzchowski							l:	NA
SS 10 M 1-1-1-2 - 4 -	STAT	TION <b>2</b>	235+0	0NB	OFFSET	25'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTIO	N:	SURFACE	ELEVA	TION:		
SS 10 M 13.3.4 2	SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological	Origin for	USCS / AASHTO	Strength Qp	(tar) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
1	\ /					- 1 -	71.12 17.74	41.0	e roots, very stiff						HSA	A
SS   10   M   1-1-1-2   4	$\left\langle \right\rangle$		8		1-3-3-4 (6)						3.5	;				
SS 23 M 3-2-4-2 9		SS 2	10		1-1-1-2 (2)	- 4 -		Soft		CL		3				
SS 23 M 3-2-4-2 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE AVE-IN DEPTH AT COMPLETION: NMR DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 6 -										
SS 23 M 3-2-4-2 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE AVE-IN DEPTH AT COMPLETION: NMR DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.							V/,									
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WET DRY  WET DRY  WET			23						lenses, soft	SM	0.5	5				
WATER LEVEL & CAVE-IN OBSERVATION DATA   WATER ENCOUNTERED DURING DRILLING: NE   CAVE - IN DEPTH AT COMPLETION: NMR   WATER LEVEL AT COMPLETION: NMR   CAVE - IN DEPTH AFTER 0 HOURS: NMR   NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$/ \setminus$				(0)	10										
▼     WATER ENCOUNTERED DURING DRILLING:     NE     ☑     CAVE - IN DEPTH AT COMPLETION:     NMR     WET DRY       ▼     WATER LEVEL AT COMPLETION:     NMR     ■     CAVE - IN DEPTH AFTER 0 HOURS:     NMR     WET DRY       NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								End of Boring at	10.0 ft.							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE-	N OBSERVATION	N DATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	W	ATER	ENCC	DUNTERED	DURI	NG D	RILLING: NE	CAVE - IN DEPTH	AT COMPLET	ON:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Ā	W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	CAVE - IN DEPTH	AFTER 0 HOU	RS:	NMR				WET DRY
ZUNE – NOU FOCOUNTEREO NIMIK = NO MEASUREMENT RECORDED	NO								sition between in-situ soil i	layers should be e	xpected	d.				

A112	CONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WI	SDOT PRO	OJECT ID:	):			1229-04	4-01					RIN	G II	<b>D</b> :	MP76
ATTIME DAY	FTRANSTE	Mad	ison	, WI 53704				SDOT STR	RUCTURE	E ID:								AGE NO				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT						NSULTANT PROJEC		OT 1/-			ATITUD				ONGITUDE:
	DWAY N						ORILLING CON	ITRACTOR	R:		AET	-	LLING CONTRACTO	OR PROJE	CT NO:			NORTHIN	3838	838.0		ASTING: 603149.152
	E START				12/01/	14	CREW CHIEF:				MD	)	LL RIG:						NATE SY		1	wccs
	E COMPI	LETED:			12/11/	14	OGGED BY:				AET	-	LE SIZE:			4	in		NTAL DA			ERTICAL DATUM:
	INTY:				Ozauk	ee	.OG QC BY:			Wierzo	howski	i	MMER TYPE:						BED ELE		<b>1</b> :	NA
SIA	TION 2	235+0	0SB	OFFSET	50'	Lt '	TOWNSHIP:	R	RANGE:		SECTION:		1/4 SECTIO	N:	1/4 1/4 8	ECTION	s	URFACE	E ELEVA	TION:		T
SAMPLETYDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			aı Ead	nd Geo	lock Des logical ( or Unit / (	Orig	in for			USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
								BASE C	OURSE	Ē						GW					HSA	A.
	SS 1	5	M 19	3-2-1-1 (3)	- 2 -			Y CLAY , stiff	, browr	n, moist,	with sand	d, tra	ce gravel, POS	SSIBLE		CL	2.0					
	SS 2	10	M 21	2-3-2-4 (5)	- 4 - 5 - - 6 -		5.0FINE	SAND'	Y SILT,	 , gray/bro	 own, mois	st, tra	ace clay & grave	el, stiff			2.0					
PJ 143 821/15	SS 3	12	M 16	1-1-2-1 (3)	- 7 - - 8 - - 9 -											SM	1.25	5				
COUNTIESIOZAUKEEI 431729-04-01 - 143 - SILVERSPRING DR TO STH 80/GNIT1729-04-01 OZAUKEE CO GPJ - 143 8/21/15	SS 4	24	M 17	2-5-3-5 (8)	- 11 - - 12 - - 13 - - 14 -		15.0			End of	Doring at	+ 15 (	) <del>(</del>				2.0					
29-04-01					. •					⊨nd of	Boring at	τ 15.0	νπ.									
N-43/122							W	ATER	LEV	EL & C			BSERVAT	ION E	ATA							
A A KE	_	ATER	ENCC	UNTERED	DURI	NG D	RILLING	NE			Ĭ <u>Ş</u>	C	AVE - IN DEF	TH AT	COMF	LETIC	N:	NMR				WET DRY
TIES/OZ				L AT COMF			NMR						AVE - IN DEF					NMR				WET □ DRY □
NOON:				lines between countered; NN					ate bou	ındary; gr	radual trans	nsition	between in-situ	soil laye	rs shoul	d be ex	pected					

A SO	3502	)ept. 2 Kin	of Transp sman Blv	portatio d.	n	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP77
OFTRANS	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT DROUGET NO			AGE NO:			LONOITURE	1 of '
WISDOT PR		uviE:		J-4	13	ONSULTANT:  RILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT NO	)·		ORTHIN			LONGITUDE:	
						REW CHIEF:		J:			3839	37.62	I EASTING: 6	03315.23
DATE STAR				1/26/1	15	MD DGGED BY:	DRILL RIG: HOLE SIZE:			OORDIN ORIZON			VERTICAL D	WCC
COUNTY:	LLILD.			1/26/1	15	AET DG QC BY:	HAMMER TYPE:	4	in	TREAMB			VEITHORE	ATOWI.
STATION	2236+0	OND.	OFFSET	Ozauke 60' I	<b>e</b>	C. Wierzchowski DWNSHIP: RANGE: SECTION:		1/4 SECTION:		JRFACE				N/
		OND			νι				Г					
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1/ 1// 1// 1//	12" TOPSOIL						F	ISA	
				1 -		31.0 SILTY CLAY, dark brown, moist, stiff								
SS 1	12	M 31	1-5-1-5 (6)	- 2 -				CL	1.5					
				3		3.0 SILTY CLAY, gray, moist, trace sand	stiff							
SS 2	11	M 27	3-3-3-4 (6)	- 4 -					2.0					
				5 - 6 -				CL						
				- 7 -										
				8 -	<u> </u>	8.0 SILTY CLAY, brown mottled, moist, tr	are sand stiff							
SS 3	24	M 21	3-3-3-4 (6)	- 9 -				CL	1.5					
				10		10.0 End of Boring at	10.0 ft.							
<u> </u>	/ATES:	-NO-	N. IN. IT.		10.5	WATER LEVEL & CAVE-I			<b></b>					WET F
_			DUNTERED				CAVE IN DEPTH AT CO			NMR				WET [ DRY [ WET [
\#   \ <b>\</b>	AIERI	LEVE	L AT COMI			NMResent the approximate boundary; gradual trans	CAVE - IN DEPTH AFTER			NMR				WET [ DRY [

OEP.	SCONSIN 30	350°	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE	):	MP78
MATHER	OFTRANSIO	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:					PAGE N				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITU				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTH	384	037.69	92 E	ASTING: <b>603230.31</b> 9
DA <sup>*</sup>	TE STAR	TED:			1/21/	15 C	REW CHIEF:	MD	DRILL RIG:			COORE	INATE S'	/STEM:		wccs
DA <sup>*</sup>	TE COMP	LETED:			1/21/	15	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZO	ONTAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	ee Lo	og QC BY: <b>C. Wierzc</b> h	nowski	HAMMER TYPE:			STREA	/IBED ELE	VATION		N/
STA	ATION 2	237+0	0NB	OFFSET	25'	Lt T	OWNSHIP: RANGE: S	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ON:	SURFA	CE ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geold Each Major	ogical (	Origin for		Strength Qp	(tst) Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	11	M 19	2-5-5-5 (10)	- 1 - - 2 -		12" TOPSOIL  1.0  SILTY CLAY, brown mottled,	moist, tr	ace sand, soft		0.	5			HSA	
	SS 2	11	M 16	2-4-4-6 (8)	- 4 -		Very stiff				3.7	5				
-01 OZAUKEE CO.GPJ 143 8/21/15					- 6 -		Gray/brown, hard			C	L					
SOUNTESOZAUKEEN 43/128-04-01 - 143 - SILVERSPRING DR TO STH BOGIN 1722-04-01 OZAUKEE CO.GPJ 143 BZ/175  \$   \begin{small}   \b	SS 3	24	M 17	3-5-3-8 (8)	- 9 -		10.0	Donier	40.06		4.	5				
- 10-40					•		End of B	oring at	ιυ.υ π.							
3/1229-0							WATER LEVEL & CA	AVF-II	N OBSERVATION D	ATA						
Z	z w	ATER	ENCC	UNTERED	DURIN	NG DI			CAVE - IN DEPTH AT		TION:	NM	₹			WET DRY
Siozau	_			L AT COMF			NMR	1	CAVE - IN DEPTH AFT			NMF				DRY L WET DRY
N N							resent the approximate boundary; grad	dual trans					-			טאץ [
000							urement Recorded				,00000					

Meconsin N	/I Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID	):	MP79
OF TRANSOF N	adison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
VISDOT PROJEC			l-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY NAME					RILLING CONTRACTOR: <b>AET</b>		CT NO:			3840	38.00	)8   <sup>E/</sup>	ASTING: 603149.31
ATE STARTED:			12/11/	14	REW CHIEF: MD				OORDIN				WCC
ATE COMPLETE	D:		12/11/	14	OGGED BY:		4	in	ORIZON				ERTICAL DATUM:
COUNTY:			Ozauk	ee	og qc BY: <b>C. Wierzchowski</b>				TREAMB				N
TATION <b>2237</b>	+00SB	OFFSET	50'	Lt	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA <sup>*</sup>	TION:		
SAMPLE TYPE NUMBER RECOVERY (in)	(RQD) Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Det and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	M 16	2-2-2-1 (4)	- 1 -		SAND & GRAVEL, brown to dark bro	wn, moist, very loose	GW					HSA	
SS 7	7 M 10	1-1-1-2 (2)	- 3 - - 4 - - 5- - 6 -		3.0  FINE TO MEDIUM SAND, brown, mo	sist, little gravel, trace silt,	SP						
SS 3	, M 23	1-2-2-2 (4)	- 8 - - 9 -		8.0  SILTY CLAY, brown mottled, moist, t		CL	0.25					
			-		End of Boring at	10.0 IL.							
					WATER LEVEL & CAVE-I	N ODSEDVATION D	ΔΤΔ						
	R FNC	OUNTERED	DURI	NG DI				N.	NMR				WET [
		DUNTERED L AT COMF				CAVE - IN DEPTH AT	COMPLETIC		NMR NMR				WET DRY I WET DRY I

OEP.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT	ID:	1229-04-01			во		G IE	):	MP80
MATINET	OFTRANSPOR	Mad	lison,	, WI 53704			WISDOT STRUCTU	RE ID:				PAGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITUE				ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		NORTHI	3842	235.99	92 E	ASTING: 603117.559
	TE STAR				12/11/	14	REW CHIEF:	MD	DRILL RIG:			COORDI				wccs
DA	TE COMP	PLETED:			12/11/ <sup>-</sup>	14	DGGED BY:	AET	HOLE SIZE:		4 in	HORIZO	NTAL DA	TUM:	VI	ERTICAL DATUM:
CO	UNTY:				Ozauk	e Lo	OG QC BY:	C. Wierzchowski	HAMMER TYPE:			STREAM	BED ELE	VATION:		NA
STA	ATION 2	239+0	0SB	OFFSET	90'	Lt T	OWNSHIP: RANGE	: SECTION:	1/4 SECTION:	1/4 1/4 SECTION	ON:	SURFAC	E ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	Soil / Rock Des and Geological C ach Major Unit / C	Origin for	OTHOMAN SOSI	Strength Op	(tST) Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	10	M 17	2-3-2-3 (5)	- 2 -		1.0	y/brown mottled, mo	ist, trace sand, very stiff		3.2	5			HSA	
	SS 2	12	M 17	2-4-3-4 (7)	- 4 -		Stiff				2.0	0				
04-01-02AUKEE CO.GPJ 1-43 8/21/15					- 6 -					С	-					
SOUNTIESIOZAUKEEI 43/1229-04-01 - 143 - SILVERSPRING DR TO STH ØNGINTIZ229-04-01 QZAUKEE CO.GPJ 143 92/1/15	SS 3	24	M 19	2-4-4-6 (8)	- 9 -		10.0				2.0	0				
4-01-14					10			End of Boring at	10.0 ft.							
%1229-0•							WATERIE	VFI & CΔ\/F-II	N OBSERVATION D	ΔΤΔ						
Z   Kee/143	7 \_\_\/	ATFR	FNCC	OUNTERED	DI IDIN	IC D		VEL & CAVE-II	CAVE - IN DEPTH AT		ION:	NMF	?			WET DRY
SYOZAUK	_			L AT COMF			NMR		CAVE - IN DEPTH AT			NMR				DRY C WET C DRY C
N J	-							oundary; gradual trans	ition between in-situ soil laye				•			DRY [
8							rement Recorded	, , g	z.u com layo		, - 5.0					

OED ALL	CONSIN.	WI E	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>D</b> :	MP81
MATTHERY	OF TRANSPORT	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N						ORILLING CONTRACTOR:	Т	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3843	340.3	<b>77</b>	ASTING: <b>603330.707</b>
	E STAR				1/26/	15	CREW CHIEF:	<u>D</u>	DRILL RIG:				OORDIN	IATE SY	STEM:		wccs
DAT	E COMP	LETED:			1/26/	15	OGGED BY:	т	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	JNTY:				Ozauk		og QC BY:  C. Wierzchowski	ci	HAMMER TYPE:			S	TREAME	BED ELE	VATION	l:	N/
STA	TION 2	240+0	0NB	OFFSET	80'	Rt T	OWNSHIP: RANGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 SE	CTION	S	URFACE	ELEVA	TION:		
חמאד ח ומאאס	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	0	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	11	M 20	2-3-3-4 (6)	- 1 -		12' TOPSOIL  1.0  SILTY CLAY, brown, moist, trace sai	and	I, stiff			1.5				HSA	
	SS 2	6	M 36	2-2-2-3 (4)	- 4 -						CL	1.20					
					- 6 - - 7 -		8.0		on sand stiff								
	SS 3	24	M 19	2-4-3-4 (7)	- 9 -		10.0				CL-ML	. 1.75					
					10		End of Boring a	at 1	10.0 ft.								
<u> </u>							MATERIES CONTE	114	LODOED /ATION	A T 1							
_	, ,	A T		NI IN ITTE	D =		WATER LEVEL & CAVE-						N 12 7 =				WET F
_ <u>\</u>				OUNTERED					CAVE - IN DEPTH AT				NMR				WET  DRY  WET
$\bar{\bar{\Lambda}}$				L AT COMF			NMR		CAVE - IN DEPTH AF				NMR				WET  DRY
NC							resent the approximate boundary; gradual trar urement Recorded	nsi	tion between in-situ soil layei	rs should	ре ех	ected.					

Martin	OEP.	SCONSIN 30	350°	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP82
1.43   1.20	ATTREE	OFTRANS	Mad	lison,														1 of 1
AFT				AME:		I-	43											
1/2015   1									AET		CT NO:				3844			ASTING: 603221.687
12016   1201						1/20/	15		MD									wccs
Section   Compared			PLETED:			1/20/	15		AET			4	in					ERTICAL DATUM:
SS   1						Ozauk	e	C. Wierzcho	owski									NA
SS   4   M   1-2-2-2   2	STA	1 2 2	241+0	0NB	OFFSET	25'	Lt T	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
SS   4   M   1-2-2-2   2   Very stiff   SILTY CLAY, gray/brown mottled, molest, trace sand, medium   0.75     SS   19   M   1-2-2-3   4   Very stiff   2.75     SS   24   M   2-5-3-6   9		SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
Very suin  SS 19 M 1-2-2-3 - 4  SS 24 M 2-5-3-6 - 9  SS 24 M 2-5-3-6 - 9  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: N			4		1-2-2-2 (4)	- 2 -		1.0 SILTY CLAY, gray/brown mottl	led, mo	ist, trace sand, medium			0.75				HSA	
SS 24 M 2-5-3-6 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR DEPTH AT COMP		SS 2	19		1-2-2-3 (4)	- 4 -		Very stiff					2.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET	4-01 OZAUKEE CO.GPJ 1-43 B21/15					- 7 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60/GINT/1228-0.	SS 3	24		2-5-3-6 (8)	- 9 -							3.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	94-01-1-4					.0		End of Bo	oring at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0							WATER LEVFL & CA	VE-II	N OBSERVATION D	АТА							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	Z   w.	ATER	ENCC	DUNTERED	DURIN	IG DI					ETIO	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAL	_								-								WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	cation	lines between	soil type	s repr	resent the approximate boundary; gradu	ual trans									5.11

WINDOWN MAKE  IL-43  ORNE STORMED  12/11/14  ATE COMPLETED  13/11/14  ATE COMPLETED  14 in COMPLETED  15/11/14  ATE COMPL	O WISCONS	w. <b>V</b>	Dept	. of Transp	ortati	on	WISD	OT PROJE	ECT ID:			1229-04-01					RIN	G II	<b>)</b> :	MP83
FIGURIAL CONTINUE   TOTAL NAME   TOTAL NAM	ATTEN OF TRAN	M	adisor				WISD	OT STRUC	CTURE ID:						P	AGE NO	t			1 of 1
AET   Monte Conference			NAME:		I-	43					1	CONSULTANT PROJECT NO:			L	ATITUDI	E:		L	ONGITUDE:
TATE STATES  12/11/14  12/	ROADW	AY NAME:				С	RILLING CONTR	RACTOR:		AE	т	DRILLING CONTRACTOR PROJE	CT NO:		١	IORTHIN		134.9		ASTING: 603140.661
1211/14   100	DATE ST	TARTED:			12/11/	' <b>14</b>	CREW CHIEF:			MI	D	DRILL RIG:			C	OORDIN	NATE SY	STEM:		
COLUMN:  OZAURAN  OZA	DATE CO	OMPLETE	D:			L	OGGED BY:					HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	V	
Section   Sect	COUNTY	Y:				L	OG QC BY:		C. Wie			HAMMER TYPE:				TREAME	BED ELE	VATION	l:	N/
Soil / Rock Description and Geological Origin for Each Major Unit / Comments  SS 1 4 M 19 1-8-2-6 12 12 12 12 13.0  SILTY CLAY, brown motified, moist, trace sand, soft  SS 7 M 20 2-3-1-3 - 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATION	2241	+00SB	OFFSET		Т	OWNSHIP:	RAN		SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION	: S	URFACE	ELEVA	TION:		
SS 7 M 2-3-1-3 (4) - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6												'								
SS 1 4 M 19 1-8-2-6 2 - 3.0 SILTY CLAY, brown mottled, moist, trace sand, soft  SS 7 M 20 2-3-1-3 (4) - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	SAMPLE TYPE	RECOVERY (in)	(RQD) Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				and (	Geological	ΙΟι	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders		
SS 7 M 20 2-3-1-3 4 - 5 - 6 - CL				1-8-2-6 (10)				PSOIL											HSA	
	S	SS 7		2-3-1-3 (4)	- 4 -			CLAY, I	brown mo	ottled, moist,	, tra	ce sand, soft			0.5					
SS 16 M 2-3-3-5 9 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	OENOVEE CO. ST. 3 143 GE II D				- 7 -									CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY:  WATER LEVEL AT COMPLETION: NMR  WET DRY:  WATER LEVEL AT COMPLETION: NMR  WET DRY:  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	S	SS 1		2-3-3-5 (6)					En.	d of Boring	at 1	0.0 ft			1.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.									En	u oi builly a	al I	v.v II.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DR	67716						WA	TER L	EVEL	& CAVE	-IN	OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  WET LONG  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET LONG  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		WATE	R ENC	OUNTERED	DURII	NG D					_			LETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	4							•												WET [
	NOTE							oroximate	e boundar	ry; gradual tra	ansit									DIXT L

OED AIR	SCONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	):	MP84
HTMERS	OF TRANSPORT	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROA	DWAY N	IAME:				DI	RILLING CONTRACTOR:	ET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: <b>3846</b>	35.3	31	ASTING: <b>603209.654</b>
DAT	E STAR	ΓED:			1/20/	15 CI	REW CHIEF:	ИD	DRILL RIG:			С	OORDIN	IATE SY	STEM:		wccs
DAT	E COMP	LETED:			1/20/	15	DGGED BY:	ΕT	HOLE SIZE:		4	in H	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COU	JNTY:				Ozauk	LC	OG QC BY:  C. Wierzchows		HAMMER TYPE:				TREAME	ED ELE	VATION	:	NA
STA	TION 2	243+0	NIR	OFFSET	25'	TO	DWNSHIP: RANGE: SECTION	ON:	1/4 SECTION:	1/4 1/4 SE	ECTION	: S	JRFACE	ELEVA	TION:		107
									l								
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	12" TOPSOIL									HSA	A
					1 -		1.0 SILTY CLAY, brown, moist, trace s	san	d, stiff								
$\left  \right $	SS 1	11	M 19	1-2-2-3 (4)	- 2 -						CL	1.5					
$/\!\!\setminus$	,			(1)													
					3 -		3.0 SILTY CLAY, dark gray, moist, tra	ice s	eand, very stiff								
$\left  \right $	SS 2	18	M 27	1-1-1-2 (2)	- 4 -							2.5					
					5-						CL						
					- 6 -						OL						
					- 7 -												
					8 -		8.0 SILTY CLAY, reddish brown, mois	st, h	ard								
$\left  \right $	SS 3	24	M 17	2-10-5-12 (15)	- 9 -						CL	4.5					
					10		10.0 End of Boring	g at	10.0 ft.								
							MATERIEVELACANE		LODGED (ATION 5	A T A							
$\nabla$	7 147	ATED	ENIC	DUNTERED	חוטוי	IC D	WATER LEVEL & CAVE	=- <b>II</b> ₩	OBSERVATION D		ETIC	NI:	NIA 4D				WET $\Box$
$ar{\Lambda}$								■ Prēzel					NMR				WET DRY DRY DRY DRY DRY
_				L AT COMP			esent the approximate boundary; gradual to	=	CAVE - IN DEPTH AFT				NMR				DRY 🗌
IVC							esent the approximate boundary; gradual ti irement Recorded	ı ai is	idon between in-situ soii idyer	s si iouia	ne ex	ocoied.					

0Eb	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP85
MATHERS	OF TRANSPOR	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		l-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:					RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3846	33.01	17 E	ASTING: 603128.605
DAT	TE STAR	ΓED:			12/10/ <sup>-</sup>	14 C	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:		wccs
DAT	TE COMP	LETED:			12/10/ <sup>-</sup>	14	DGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COI	JNTY:			1	Ozauke	e Lo	OG QC BY:	rzchowski	HAMMER TYPE:			S <sup>-</sup>	reame	BED ELE	VATION		N/
STA	TION 2	243+0	0SB	OFFSET	60'	Lt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and G Each M	/ Rock Des Seological ( ajor Unit /	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	15	M 19	0-3-1-5 (4)	- 2 -		12" TOPSOIL  1.0  SILTY CLAY, brown, mo	ist, with silt le	enses, hard			4.5				HSA	
	SS 2	23	M 19	2-8-6-11 (14)	- 4 -							4.25					
OZAUREE CO.GFJ 143 ØZI/15					- 6 -						CL						
SOUN IESUCANCEELI-LASI ZEPURU) - 1-3 - SIVERESPRING DR. 10 SH BUGIN ITZE-GUU CEAURE CU GPJ 1-43 BZTIB	SS 3	24	M 18	4-9-7-10 (16)			Very stiff					2.25					
- 101					10		End	of Boring at	10.0 ft.								
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9 CAVE 1	N ODSERVATION S	) A T A							
- F	7 14	٨٣٥	ENICO	NINTEDED.	י רו וריי	IC D			N OBSERVATION D		ETIO	NI:	NIN 4D				WFT F
Z ZAUKE	_			DUNTERED					CAVE IN DEPTH AT				NMR				WET DRY WET
Z NIESON				L AT COMF			NMR	u areadii al fiii	CAVE - IN DEPTH AF				NMR				WET DRY
							esent the approximate boundary urement Recorded	, graduai tran	ышон рекween in-situ soli läye.	เจ ธกับนี้เป็	ne exp	ected.					

S CONSIN	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP86
OF TRANS	⁵ Mac	lison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
	ROJECT NA	ME:		l-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				NGITUDE:
ROADWA						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3846	93.79	)5 EA	STING: <b>603315.4</b> 9
DATE STA				1/26/	15	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
DATE CO	MPLETED:			1/26/	15	DGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	VE	RTICAL DATUM:
COUNTY:				Ozauke	e Lo	DG QC BY: C. Wierzcl	howski	HAMMER TYPE:			S	TREAME	BED ELE	VATION:		N/
STATION	2243+5	0NB	OFFSET	85'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA <sup>*</sup>	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geol Each Majoi	logical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	3 15	M 20	1-5-3-8 (8)	- 1 -		12" TOPSOIL  1.0  SILTY CLAY, brown, moist, 1	trace san	d, very stiff			3.75				HSA	
SS 2	3 19	M 21	3-10-5-14 (15)	- 4 -		Hard					4.5					
				- 6 -		Very stiff				CL						
SS 3	24	M 24	3-6-5-7 (11)	- 9 -		10.0					2.75					
				10		End of E	Boring at	10.0 ft.								
						WATER LEVEL & C	`Δ\/⊏_II	N ORSERVATION F	ΔΤΛ							
ΔΙ	NATED	ENICO	OUNTERED	י חוופוי	וכ הי		AVE-II	CAVE - IN DEPTH AT		ETIC	NI:	NMR				WET [
<b>1</b>			L AT COMF			NMR		CAVE - IN DEPTH AT				NMR				WET DRY DRY DRY DRY
NOTES						resent the approximate boundary; gra	adual trans									DRY
NOTES						esent the approximate boundary; gra urement Recorded	uuai ii ai l	nuon petween in-situ soii läye	i o oi iUUIQ	ne ext	recieu.					

March   Marc	AHE AHE	CONSIN.	WI E	ept.	of Transp	ortatio	n	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	MP87
1.43   Security   1.20   15   Control   1.20	HATTERA	F TRANSPOR	Mad	ison														1 of 1
AFT   Market   Mark				ME:		I-4	13											
12015   1201									AET		CT NO:				3848	33.9	36 E	ASTING: <b>603192.47</b>
12015   DOUBLE   DO						1/20/	15		MD									wccs
SS   24   M   2-6-4-5   0   10.0   End of Boring at 90.0 R.			LETED:			1/20/	15		AET			4	in					ERTICAL DATUM:
SS   24   M   2-5-4-5   9						Ozauke	e	C. Wierzchov	wski								:	NA
SS   20   M   2-6-4-8   2   2   2   3   3   3   4   1   2   5   3   2   4   1   4   2   5   4   5   5   5   4   4   5   5   5	STA	TION 2	245+0	0NB	OFFSET	25'	Lt T	DWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
SS 20 M 2-64-8 2  SS 24 M 5-8-9 4  With sand lenses, stiff  With sand lenses, stiff  With sand lenses, stiff  Water Encountered During Drillums: NE	SAMBLETVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolog	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
SS 24 M 5-8-5-9 - 4 - CL  CL  SS 3 24 M 2-5-4-5 - 9  With sand lenses, stiff  With sand lenses, stiff  Water level & CAVE-IN Observation Data  Water level & CAVE-IN Depth at Completion: NMR  Water level At Completion: NMR  Water level At Completion: NMR  ST ST Shraffication lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			20		2-6-4-8 (10)	- 1 -	<u>/                                    </u>	1.0	ce san	d, very stiff			2.6				HSA	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER		SS 2	24		5-8-5-9 (13)	- 4 -							4.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	₹ 4					- 7-						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRYY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	STH 60/GINT/1229-	SS 3	24		2-5-4-5 (9)			10.0	ing at	10 O ff			1.25					
WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	04-01-1-							Elia di Boli	ıııy al	10.0 IL								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	13/1229-(							WATER LEVEL & CAV	VE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	₹ Z	w	ATER	ENCC	UNTERED	DURIN	IG DI		_			ETIC	N:	NMR				WET 🗆
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	<	_							+=					NMR				WET DRY
	NC								al trans	ition between in-situ soil layei	rs should	be exp	ected.					

0g (	CONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP88
MATTHERS	FTRANSPO	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:					AGE NO				1 of 1
		DJECT NA	ME:		I-4	13	ONSULTANT:		CONSULTANT PROJECT NO:		L	ATITUDE	E:		LC	ONGITUDE:
ROA	DWAY N	AME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJECT	NO:	N	ORTHIN	IG: <b>384</b> 8	328.70	)5 E/	STING: 603091.49
DAT	E START	ED:			1/29/1	5 C	REW CHIEF:	MD	DRILL RIG:		С	OORDIN	NATE SY		'	WCCS
DAT	E COMP	LETED:			1/29/1	L	OGGED BY:	AET	HOLE SIZE:	4	in H	ORIZON	ITAL DA	TUM:	VE	RTICAL DATUM:
COU	NTY:				Ozauke	L	og qc By: <b>C. Wierzcho</b> '		HAMMER TYPE:			TREAME	BED ELE	VATION		N/
STA	TION 2	245+0	0SB	OFFSET	80'	T	OWNSHIP: RANGE: SEC	CTION:		4 1/4 SECTION:	SI	JRFACE	ELEVA	TION:		
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS		w	1-2-1-2			12" TOPSOIL  1.0  CLAYEY SILT, reddish brown, v	wet, tr	ace sand & gravel, soft						HSA	
	1	11	25	(3)	- 2 -		3.0 SILTY CLAY TO CLAYEY SILT gravel, stiff	, gray	/brown, wet, trace sand &	CL-ML	0.25					
	SS 2	14	W 27	1-2-2-3 (4)	- 4 -						1.5					
02AUREE CO.:073 143 921/19					- 6 <sup>23</sup>					CL						
DOWNIESOCAVREE 4-51/229-6-9-1-143 - SELVERSFRING UR 10 SIN GOGNINI/228-9-9-01/02/AREE CO.GP. 143 - 82/11/5	SS 3	23	W 18	3-8-4-10 (12)	- 9 -		Very stiff				4.0					
					10		End of Bor	ing at	10.0 ft.							
1229-04							WATER LEVEL & CA	\/E !!	N ORSEDI/ATION DA	ТΛ						
		٨Τ⊏₽	ENICC	UNTERED	י רו ורוי	ים או		VE-II	CAVE - IN DEPTH AT CO		NI:	6ft.				WET F
				L AT COMF			NMR	TIESSET	CAVE - IN DEPTH AT CO			οπ. NMR				WET DRY DRY DRY DRY
NC Y							NIVIR resent the approximate boundary; gradua	al trans				NIVIK				DRY
140							esent the approximate boundary; gradua irement Recorded	ui ii di l	auon perween m-aru sui rayers s	siloulu de exp	recieu.					

OED.	CONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>)</b> :	MP89
HTTM ON O	TRANSPOR	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:	OT 1:-			ATITUDE				ONGITUDE:
	OWAY N						ORILLING CONTRACTOR:	Т	DRILLING CONTRACTOR PROJEC	UT NO:			ORTHIN	3850	27.8	66 E	ASTING: <b>603089.03</b>
	START				12/10/	14	CREW CHIEF:	DΙ	DRILL RIG:				OORDIN				wccs
		LETED:			12/10/	14	OGGED BY:	Т	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
COU					Ozauk	ee	og QC BY:  C. Wierzchowsk	ki	HAMMER TYPE:				TREAME			l:	NA
STAT	10N <b>2</b>	247+0	0SB	OFFSET	60'	<u>Lt</u> □	OWNSHIP: RANGE: SECTION	۷:	1/4 SECTION:	1/4 1/4 SE	CTION:	s	URFACE	ELEVA	TION:		
SAMPI F TYPF	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		12" TOPSOIL  1.0  SILTY CLAY, light brown, moist, trace	ace	sand & gravel, hard							HSA	
	SS 1	19	M 16	2-5-3-8 (8)	- 2-							4.5					
	SS 2	24	M 18	4-9-6-12 (15)	- 4 -							4.5					
					- 6 - - 7 -						CL						
	SS 3	24	M 21	3-6-4-7 (10)	- 8 -		Gray, stiff					2.0					
					10		End of Boring a	at 1	0.0 ft.								
							\\\ATED!E\\E\\\\	41	I ODSEDVATION D	\ A T A							
$\Box$	141	٨Τ٢٥	-NOC		י חווחי	10.5	WATER LEVEL & CAVE-				ETIC	NI.	NIN AC				WET [
<u>V</u>	+			DUNTERED				_+	CAVE IN DEPTH AT				NMR				WET  DRY  WET
Ā				L AT COMF				-	CAVE - IN DEPTH AFT				NMR				WET  DRY
NO							resent the approximate boundary; gradual tra urement Recorded	arisi	uon between in-situ soli läyer	s snould	ne ext	vected.					

OF W	WI E	ept.	of Trans	portatio	on	WISDOT PROJECT ID:	1229-04-01				IG ID	:	MP90
OFTRANS	Mad ROJECT NA	ison,	, WI 5370	4		WISDOT STRUCTURE ID:	CONCULTANT PROJECT !:		PAGE			LONOITIE	1 of
		ME:		I-4	43	ONSULTANT:	CONSULTANT PROJECT NO:			TUDE:		LONGITUDE:	
ROADWAY						RILLING CONTRACTOR: AET	DRILLING CONTRACTOR PROJECT NO:			THING: 38	5175.32	2 EASTING: 6	03068.89
DATE STAF				12/10/ <sup>-</sup>	14	REW CHIEF: MD	DRILL RIG:			RDINATE			WCC
DATE COM	PLETED:			12/10/ <sup>-</sup>	14	OGGED BY:	HOLE SIZE:	4 in		IZONTAL [		VERTICAL DA	ATUM:
COUNTY:			055057	Ozauke	e	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE:	05051011			EVATION:		N.
STATION	2248+5	0SB	OFFSET	52'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4	SECTION:	SURI	ACE ELE\	ATION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%) Plasticity Index (%)	Boulders	Drilling Method	Votes
				_ 1 -		12" TOPSOIL  1.0  SILTY CLAY, light brown, moist, trace	sand, very stiff				ŀ	HSA	
SS 1	10	M 16	1-4-3-6 (7)	- 2 -				4	.0				
SS 2	22	M 16	4-11-8-12 (19)	2 - 4 -				4	.0				
				- 6 -				CL					
SS 3	24	M 18	4-8-6-9 (14)	8 -				3	:.1				
				10		10.0 End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-II							1 × 10000
_			DUNTERE				CAVE - IN DEPTH AT COMP			MR			WET [ DRY [
▼ N	/ATER I	_EVE	L AT COM	PLETIO	N:	NMR 💂	CAVE - IN DEPTH AFTER 0	HOURS:	N	ИR			WET   DRY

MISCONSIN B	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>)</b> :	MP91
OF TRANSPORT	Mad	ison,	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR:  AET	T	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3868		32	EASTING: <b>602963.509</b>
DATE STAR				11/13/	14	REW CHIEF:	D	DRILL RIG:				OORDIN				wccs
DATE COMP	PLETED:			11/13/	14	OGGED BY: AET	T	HOLE SIZE:		4	in	ORIZON				/ERTICAL DATUM:
COUNTY:				Ozauk	ee	og qc BY: <b>C. Wierzchowski</b>	ki 📗	HAMMER TYPE:				TREAME			l:	NA
STATION 2	265+7	5NB	OFFSET	60'	Rt T	OWNSHIP: RANGE: SECTION:	1:	1/4 SECTION:	1/4 1/4 SE	CTION	: S	JRFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	I Or	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1 -		12" TOPSOIL  1.0  SILTY CLAY, brown, moist, trace sal FILL, very stiff	and	& gravel, POSSIBLE							HSA	A
SS 1	15	M 17	3-6-4-8 (10)	- 2 -						CL	4.25					
SS 2	17	M 18	3-7-6-9 (13)	- 3 - - 4 -		3.0 SILTY CLAY, light brown/gray, moist FILL, very stiff 4.5				CL	3.25					
SS 2A		M 20		- 6 -		FINE TO MEDIUM SAND, dark gray, medium dense	y, m	ioist, some clay, little siit,		SP						
SS 3	24	W 18	2-6-4-8 (10)	- 8 - - 9 -		8.0 SILTY CLAY, brown, wet, trace sand	d &	gravel, very stiff		CL	3.25					
				│ <u></u> <u>₩</u>		End of Boring at			)ATA							
$\nabla$ w	ATER	ENCC	UNTERED	DURI	NG D	RILLING: 9.6ft.	<u>a</u>	CAVE - IN DEPTH AT	COMPL	ETIC	DN:	9.8ft.				WET DRY
	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AFT	ΓER 0 H	OUF	RS:	NMR				WET [
						resent the approximate boundary; gradual tran urement Recorded	ansiti	ion between in-situ soil layer	rs should	be ex	pected.					

OF THE TENE	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	):	MP92
THE OF TRANSPORT	Mad	ison,	WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR: AET		T NO:		ORTHIN	3872	03.89	9	ASTING: <b>602746.952</b>
DATE STAR				1/28/	15	REW CHIEF: MD				OORDIN				wccs
DATE COMP	PLETED:			1/28/	15	OGGED BY:	HOLE SIZE:	4	· in	ORIZON	TAL DA	TUM:	VI	ERTICAL DATUM:
COUNTY:			(	Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAMB	ED ELE	VATION:	•	N/
STATION 2	2269+0	0SB	OFFSET	75'	Lt	OWNSHIP: RANGE: SECTION:		1/4 1/4 SECTION	: S	JRFACE	ELEVA <sup>*</sup>	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	10	M 33	1-6-5-10 (11)	- 1 -		36" TOPSOIL							HSA	
SS 2	22	M 5	4-20-10-17 (30)	, 4 -		3.0  FINE TO MEDIUM SAND, light brow silt, FILL, medium dense	n, moist, some gravel, trace							
				- 6 -		8.0		SP						
SS 3	18	M 18	3-6-4-9 (10)	- 8 - - 9 -		SILTY CLAY, gray/brown, moist, trace  10.0  End of Boring a		CL	3.0					
					_	WATER LEVEL & CAVE-	N OBSERVATION DA	ΔΤΔ						
						**************************************	IT OBOLITOR DI	1171						
<u> </u>	/ATER	ENCC	UNTERED	DURIN	NG DI		CAVE - IN DEPTH AT C		N:	NMR				WET DRY
			OUNTERED L AT COMP					COMPLETIC		NMR NMR				WET [ DRY [ WET [ DRY [

A TO SE	3502	ept. Kin	of Transp sman Blv	portation	on	WISDOT PROJECT ID:	1229-04-01					3 ID:	MP93
OFTRAM	Mad	ison,	WI 5370	4		WISDOT STRUCTURE ID:	CONICILI TANT PRO IFOT VO			AGE NO:			1 of
WISDOT PF		ME:		l-4	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGITUDE:
ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:				3872	86.146	EASTING: 602936.63
DATE STAF				11/13/	14	REW CHIEF: MD	DRILL RIG:			OORDIN			WCC
DATE COM	PLETED:			11/13/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON'			VERTICAL DATUM:
COUNTY:			OFFSET	Ozauk	e	OG QC BY:  C. Wierzchowski  DWNSHIP: RANGE: SECTION:	HAMMER TYPE:	SECTION:		JRFACE			N/
JAHON	2269+7	ONB	OIT SET	75'	Rt '	SWNSHII. IVANGE. SECTION.	174 SECTION. 174 174	SECTION.	00	DIG ACE	LLLVAI	ION.	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
				1 -	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	12" TOPSOIL						H	SA
ss	14	M	3-4-4-3	- 2 -		SILT, light brown, moist, trace clay, m		SM					
1 SPT 1A		14 M 10	(8)	- 3 -	77	FINE TO MEDIUM SAND, brown, mo loose  3.0  SILTY CLAY, brown, moist, little sand		SP					
SS 2	16	M 19	2-4-3-5 (7)	- 4 -		SIETY CEAT, GIOWI, HIGIST, IIILE SAIRC	, trace graves, very sun		3.5				
				- 6 -				CL					
SS 3	24	M 19	3-6-4-8 (10)	- 9 -		10.0			3.25				
						End of Boring at	1U.U ft.						
						WATER LEVEL & CAVE-I	N OBSERVATION DATA						
	ATER I	ENCC	UNTERED	DURIN	IG DI	RILLING: NE	CAVE - IN DEPTH AT COM	PLETIO	N:	NMR			WET DRY
<u> </u>				PLETIO			CAVE - IN DEPTH AFTER 0						WET [ DRY [

OED.	SCONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP94
HTWEEN	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:					AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	Т	DRILLING CONTRACTOR PROJECT N	NO:		ORTHIN	3873	36.19	91 E	ASTING: 603007.949
	E STAR				11/13/	14	REW CHIEF:	D	DRILL RIG:			OORDIN				wccs
	E COMP	LETED:			11/13/	14	OGGED BY:	Т	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	og qc BY:  C. Wierzchowsk	κi	HAMMER TYPE:					VATION	:	NA
STA	TION 2	270+1	5NB	OFFSET	150'	Rt T	OWNSHIP: RANGE: SECTION:	1:	1/4 SECTION: 1/4	4 1/4 SECTION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
ר מאר ר	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	10	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					- 1 -	7. 7. 1 17. 7.1	12" TOPSOIL  1.0  SILTY CLAY LOAM, reddish brown	to	brown, moist, very stiff	CL	-				HSA	
$\bigvee$	SS 1 SS 1A	17	M 24 M 14	2-6-3-7 (9)	- 2 -		2.0  FINE TO MEDIUM SILTY SAND, recomposit, little gravel, loose  3.0  SILTY CLAY, brown, moist, trace sa			SM	2.75					
	SS 2	12	M 18	5-4-7-4 (11)	- 4 -						2.75					
					- 6 -					CL						
	SS 3	5	M 19	4-10-9-12 (19)	- 8 - - 9 -		8.0 SILTY CLAY, reddish brown, wet, tra			CL						
					10		End of Boring a	at 1	10.0 ft.							
-							WATER LEVEL & CAVE-	_IN	N OBSERVATION DA	TA						
$\overline{\nabla}$	7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ATFR	=NC	DUNTERED	DIIBIN	וט טו			CAVE - IN DEPTH AT CO		N.	NMR				WET  DRY
				L AT COMP			NMR		CAVE - IN DEPTH AFTE			NMR				DRY DRY DRY DRY
_							resent the approximate boundary; gradual train	-								DKY 🗌
							esent the approximate boundary, gradual trai urement Recorded	101	bottroom in-situ soli läyels s	ouid DE EX	Joieu.					

430 .	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	MP95
MATTHER	OFTRANSPOR	Mad	lison	, WI 53704	u. ļ		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3874	22.76	66 E	ASTING: 602730.418
DA <sup>*</sup>	TE STAR	TED:			12/10/1	14 CI	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	NATE SY	STEM:		wccs
DA <sup>*</sup>	TE COMP	LETED:			12/10/1	<b>14</b>	DGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:			1	Ozauke	e Lo	OG QC BY:  C. Wierzcho	owski	HAMMER TYPE:			S	TREAME	BED ELE	VATION		N/
STA	ATION 2	271+2	5SB	OFFSET	75'	Lt T	OWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolo Each Major I	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	19	M 20	1-3-2-4 (5)	- 1 <del>-</del>		12" TOPSOIL  1.0  SILTY CLAY, brown, moist, tra	ace san	d & gravel, stiff			2.0				HSA	
	SS 2	15	M 18	3-11-5-13 (16)	- 4 -		Very stiff					4.5					
4.01 OZAUKEE CO.GPJ 1-43 821/15					- 6 - - 7 -						CL						
SOUNTESIOZAUKEEL43/125-04-01 - 1.43 - SILVERSPRING DR TO STH BÜGIN 1/122-04-01 OZAUKEE CO.GFJ 1.43 BZ/1/15	SS 3	24	M 14	4-10-8-14 (18)	- 9 -		10.0					4.5					
F01 - 1-43					10		End of Bo	oring at	10.0 ft.								
1229-04							WATER LEVEL & CA	\\/E !!	N OBSEDVATION D	ΔΤΛ							
Z KEE 143	7 \	ΔΤΕΡ	FNC	DUNTERED	DIIDIN	וט טו		VE-II	CAVE - IN DEPTH AT		FTIO	N·	NMR				WET DRY
SYOZAUK	_			L AT COMF			NMR	I IISSET	CAVE - IN DEPTH AT				NMR				DRY DRY DRY DRY
NA PER	-						resent the approximate boundary; grade	ual trans									DRY [
							urement Recorded	uurk		5 Griouid	UNF	JJ.0U.					

Jago.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJ	JECT ID:		1229-04-01				BOF		G II	<b>)</b> :	MP96
MATTHERS	OF TRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STRU	JCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:			NSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	<b>AE</b> 1	T DRI	LLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3875	518.4	47 E	ASTING: 603021.518
	TE STAR				11/13/	14	REW CHIEF:	МЕ	D	LL RIG:				OORDIN				wccs
DAT	TE COMP	LETED:			11/13/	′14 <sup>L</sup>	OGGED BY:	<b>AE</b> 1	T HOL	LE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:	C. Wierzchowsk	(i	MMER TYPE:				TREAME			:	NA
STA	TION <b>2</b>	272+0	0NB	OFFSET	175'	Rt T	OWNSHIP: RA	NGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Rock De and Geological Each Major Unit /	Orig	in for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1 SS 1A	15	M 37 M 18	2-4-3-6	- 1 -		1.5	brown, moist, trace sa	and & g	gravel, hard			4.5				HSA	
	SS 2	21	M 19	2-5-4-7 (9)	- 4 -		Very stiff						3.75					
OZAUKEE CO.GPJ 143 821/15					- 6 - - 7 -							CL						
DOUNTESOZAUKEEL43/1229-04-01 - 143 - SILVEKSPRING DR TO STH ØNGINNTZ28-04-01 OZAUKEE OD GPJ 143 82/1/5	SS 3	19	M 14	3-9-6-11 (15)	- 9 <del>-</del>		Hard						4.5					
401 - 14					. •			End of Boring a	at 10.0	) π.								
31229-0							WATER	I FVFI & CAVF	-IN C	BSERVATION D	ΔΤΔ							
Z KEENEA3	7 w	ATER	ENCC	OUNTERED	DURI	NG D		LLVLL & OAVL-		AVE - IN DEPTH AT		ETIC	N:	NMR				WET DRY
Siozaul				L AT COMF			NMR			AVE - IN DEPTH AFT				NMR				DRY _ WET _ DRY _
NO NO	OTES: 1	1) Stratifi	cation	lines between	soil type	es rep	resent the approxima	te boundary; gradual tra	- 1	between in-situ soil layer								DK1 L
ğ							urement Recorded			•								

Major   Majo	OF WIE	CONSIN.	350°	ept.	of Transp	ortatio	on	WISDOT I	PROJECT ID:	:		1229-04-01				BOF		G IE	):	MP97
Commonweight   Comm	ARTHMENT	F TRANSPOR	Mad	lison,					STRUCTURE	E ID:										1 of 1
AET   Months   Mont				ME:		<b>I-</b> -	43				CON	SULTANT PROJECT NO:			L	ATITUDI	E:		Lo	ONGITUDE:
CAPE CAPE LETTER	ROA	DWAY N	IAME:				Di	RILLING CONTRAC	TOR:	AE1	r DRII	LLING CONTRACTOR PROJE	CT NO:		N	IORTHIN	ig: <b>3875</b>	552.4	31 E	ASTING: <b>602909.75</b> 2
COUNTY   C	DAT	E START	ΓED:			11/14/	14	REW CHIEF:		МС	DRII	LL RIG:			C	OORDIN	NATE SY	STEM:	•	wccs
COUNTY   CALL    DAT	E COMP	LETED:				LC	OGGED BY:		AE1	HOL	E SIZE:		4		IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:	
STATION   22727-440NB   OFFSET   65° Rt   TOWNSHIP   RANCE   SCHOOL   M. SCHOOL   M. SCHOOL   SUPPLICE LEVATION   SUPPLICE L	COU	NTY:					LC	OG QC BY:	C		HAN	MMER TYPE:				TREAME	BED ELE	VATION	:	N/
SS   12   M   2-3-2-3   2	STA	TION 2	272±4	NNR			Т	OWNSHIP:		SECTION:		1/4 SECTION:	1/4 1/4 S	ECTION	s	URFACE	ELEVA	TION:		INF
SS 12 M 2-3-2-3 - 2 SILTY CLAY, brown, wet, trace sand & gravel, stiff  SS 15 M 2-4-4-4 (8) - 4 - 5 - 5 - 6 - CL																				
SS 12 M 2-3-2-3 (5) - 2 - 3	SAMPI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			aı	nd Geological	Origi	in for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
SS 15 M 2-4-4-4 (8) 5 - 4 - CL						1 -	17 7 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	1.0		n, wet, trace sand	d & gra	avel, stiff							HSA	
CL CL			12	M 20	2-3-2-3 (5)										2.0					
- 6 -	$\bigvee$	SS 2	15		2-4-4-4 (8)										1.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	בו מובר סכוכו ביו מיבו ומיבר סכוכו ביו מיבר מיבו ומיבר סכוכו ביו מיבר מיבר מיבר מיבר מיבר מיבר מיבר מיבר					- 6 -								CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	20	М	2-7-4-8 (11)			10.0		End of Boring a	ut 10 0	ı ft.								
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.											_									
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR       WET DRY         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATE	R LEVI	EL & CAVE-	IN C	BSERVATION D	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\overline{\nabla}$	W	ATER	ENCC	DUNTERED	DURIN	IG DI	RILLING: N	IE		L C	AVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1		ATER	LEVE	L AT COMF	PLETIO	N:	NMR			- 1	AVE - IN DEPTH AF	TER 0	HOUF	RS:	NMR				WET DRY
2) NE = Not Encountered; NMR = No Measurement Recorded	NC	TES: 1								ndary; gradual trai	nsition	between in-situ soil laye	rs should	d be ex	pected.					Los

Miscons,	∮ 3EC	Dept.	of Transp Isman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	):	MP98
OFTRAN	Ma	dison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
	PROJECT N	IAME:		1-4	13	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWA	AY NAME:				D	RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJE	CT NO:	N	IORTHIN	G: <b>3877</b>	713.70	)2 E	ASTING: <b>603014.175</b>
DATE ST	ARTED:			11/14/	14 C	REW CHIEF:	DRILL RIG:		С	OORDIN			'	wccs
DATE CO	MPLETED:			11/14/	L	OGGED BY:	HOLE SIZE:	4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUNTY	:			Ozauke	L	og QC BY:  C. Wierzchowski	HAMMER TYPE:			TREAME	BED ELE	VATION	:	N/A
STATION	2274+	OONE	OFFSET	175'	T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	s	URFACE	ELEVA	TION:		INF
	22141	DONE		1/3	Νί									
SAMPLE TYPE NI JMBFR	RECOVERY (in)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	12" TOPSOIL							HSA	
				1 -		SILTY CLAY, light brown, moist, trac	e sand & gravel, hard							
S 1		M 18	2-5-4-5 (9)	- 2 -					4.5					
				3 -										
S 2	S 16	M 17	3-6-4-9 (10)	- 4 -					4.5					
				- 6 -				CL						
				- 7 -										
				8 -										
S <sub>3</sub>		M 18	5-9-6-10 (15)	- 9 -					4.5					
				10	///	10.0 End of Boring a	10 0 ft							
				-		End of Boring a	ιυ.υ π.							
						WATER LEVEL & CAVE-	N ORSEDVATION F	)ATA						
$\Box$	\A/A TCC	LENG	OLINITEDES	, D. 10	10.5				N.I.	NIN /C				WET F
-			OUNTERED				CAVE - IN DEPTH AT			NMR				WET  DRY  WET
			L AT COMF			NMR	CAVE - IN DEPTH AF			NMR				WET _ DRY _
NOTE						resent the approximate boundary; gradual trar urement Recorded	sition between in-situ soil laye.	rs should be exp	ected.					

OEPW WESC	NSIN. 30E	WI [	ept. Kin	of Trans sman Blv	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP99
THE OFT	TRANSPORT	Mad	ison	, WI 5370	4	-	WISDOT STRUCTURE ID:	CONCULTANT PROJECT VIC			AGE NO:			1	1 of 1
		DJECT NA	WE:		J-4	13	ONSULTANT:	CONSULTANT PROJECT NO:	NO.		ATITUDE				ONGITUDE:
	WAY N						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT	NO:		ORTHIN	3877	11.25	8	ASTING: 602914.205
	START				1/27/	15	REW CHIEF: MD	DRILL RIG:			OORDIN			1.00	wccs
		LETED:			1/27/	15	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VI	ERTICAL DATUM:
COUN	ON			OFFSET	Ozauk	e	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE:  1/4 SECTION: 1/	4 1/4 SECTION:		JRFACE		VATION:		N/A
	2	<u>274+0</u>	0NB		75'	Rt									
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 <sup>22</sup>		SILTY CLAY LOAM, dark brown to bla	ack, moist, with organic					ŀ	HSA	
	SS 1	6	M 24	0-1-0-2 (1)	- 2 -		matter, medium		CL	1.0					
					3 -		3.0 CLAYEY SILT, dark brown, moist, tra	ce sand, medium		-					
	SS 2	10	M 27	1-3-2-2 (5)	- 4 -					1.0					
					- 6 -				CL-ML						
					- 7 -		8.0								
	SS 3	24	M 17	3-6-5-8 (11)			SILTY CLAY, brown, moist, trace san	d, very stiff	CL	2.5					
1			<u> </u>		10	<u> </u>	√10.0 End of Boring at	10.0 ft.							
							WATER LEVEL & CAVE-II								
$\overline{\underline{\nabla}}$	_			DUNTERE				CAVE - IN DEPTH AT CO			1ft.				WET DRY
Ā				L AT COM			NMR	CAVE - IN DEPTH AFTE			NMR				WET  DRY
NOT							esent the approximate boundary; gradual trans urement Recorded	ıtıon between in-situ soil layers s	should be exp	ected.					

130 ·	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RING	G IE	<b>)</b> :	MP100
HATTHON	OF TRANSPOR	Mad	lison,	, WI 53704	u. L		WISDOT STRUCTURE ID:					PA	AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LA	ATITUDE	Ē:		LC	ONGITUDE:
ROA	DWAY N	AME:				С	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJ	ECT NO:		N	ORTHIN	G: <b>3877</b>	<b>750.6</b> 0	35 E/	STING: <b>602717.3</b> °
DAT	E START	ED:			1/29/	15 C	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	IATE SY	STEM:		WCCS
DAT	E COMP	LETED:			1/29/	15	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	VE	RTICAL DATUM:
COL	JNTY:				Ozauk	L	OG QC BY:	zchowski	HAMMER TYPE:				REAME	ED ELE	VATION	:	N/
STA	TION 1	274+5	ngr	OFFSET	75'	Т	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SI	JRFACE	ELEVA	TION:		INF
	•		<u> </u>						l								
II I I I I I I I I I I I I I I I I I I	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Go Each Ma	Rock Des eological ( ajor Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	3	M 66	2-2-1-5 (3)			36" TOPSOIL									HSA	
	SS 2	21	M 19	2-5-5-9 (10)	- 4 -		SILTY CLAY, brown, mois	st, trace san	d, very stiff			3.0					
U OZAUNEE (OJ. 973   143 921) 19					- 6 -						CL						
COUNTES/UZAVREIJI-19/1/ZE904-U1-19/- SILVERSPRINO DR. TO SIT 80/GRIVITZE9-U-U UZAVREE UJ.GP7-143-8Z/TIS	SS 3	24	M 21	2-5-3-5 (8)	- 9 -		10.0					3.0					
<u>+</u>					10		End	of Boring at	10.0 ft.								
1229-0-							WATER I EVEL &	, CΔ\/F-II	N OBSERVATION	ΠΑΤΔ							
	7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ATFP	FNCC	UNTERED	DI IDI	NG D		BE LEE	CAVE - IN DEPTH AT		FTIO	ν·	NMR				WET DRY
	_			L AT COMF			NMR		CAVE - IN DEPTH AF				NMR				DRY DRY DRY DRY
NC							resent the approximate boundary;	gradual trans					VIVIIX				DRY [
7,40							urement Recorded	graduar traff	Sourcon III-silu soii lay	c. o oriodia b	UNPI	Joicu.					

March   Marc	Meconsin 3	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	): 	MP101
March   Marc	OFTRANS	Mad	ison	, WI 53704	u. ļ												1 of 1
1/2015   1			ME:			43											ONGITUDE:
Martin   M						C	AE	ΕT		CT NO:				3878		26 E	ASTING: <b>602812.442</b>
12016   1201					1/20/	15	REW CHIEF:							IATE SY	STEM:	•	wccs
C. Wierzchousek   Park   Par	DATE COM	PLETED:				L	OGGED BY:	ET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	V	
SS   19 M   7-11-7-13   9	COUNTY:			(		L	OG QC BY:		HAMMER TYPE:				TREAMB	ED ELE	VATION	:	N/
SS   19   M   7-11-7-13   9   Hard   SS   19   M   7-11-7-13   9   Hard   SS   19   M   16   Third points   Third poin	STATION	2275+0	ONB			Т	OWNSHIP: RANGE: SECTIO	ON:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	JRFACE	ELEVA	TION:		
SS 19 M 7-11-7-13 9 Hard 4.5  SS 19 M 7-11-7-13 9 Hard 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologica	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 19 M 3-8-5-10 4					- 1 -	71 17 17 21	41.0	san	d, very stiff			-				HSA	A
2   13   17   (13)   4   5		14		2-6-3-7 (9)								2.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR	SS 2	19		3-8-5-10 (13)	-							4.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR					- 7 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR		19	M 16				10.0	ı oʻ	10.0 ft			4.5					
▼     WATER ENCOUNTERED DURING DRILLING: NE     Image: Cave - In Depth at Completion: NMR     NMR       ▼     WATER LEVEL AT COMPLETION: NMR     Image: Cave - In Depth After 0 Hours: NMR					-		End of Boring	j at	1υ.υ π.								
▼     WATER ENCOUNTERED DURING DRILLING: NE     Image: Cave - In Depth at Completion: NMR     NMR       ▼     WATER LEVEL AT COMPLETION: NMR     Image: Cave - In Depth After 0 Hours: NMR							WATER LEVEL & CAVE	=_	N OBSERVATION □	ΔΤΔ							
▼ WATER LEVEL AT COMPLETION: NMR	<u> </u>	/ATFR	=NCC	JUNTERED	DURI	NG D					FTIC	N.	NMR				WET DRY
							-	_									DRY C WET C DRY C
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.							-	_					. VIVIIX				DRY [

A	OED	SCONSIN 30	350°	ept.	of Transp	ortatio	n	WISDOT PROJ	ECT ID:	1229-	04-01			BOF		G IE	):	MP102
MATTER   Level   Scale   Sca	HTMER	OFTRANS	Mad	lison,					CTURE ID:								,	1 of 1
### SS 14 M 1-3-3-3 2   Water Encountered Dursing Detailing Net 2005   Soft Park   State   Soft Park   State   Soft Park   Sof				ME:		I-4	13											
More	RO	ADWAY N	IAME:				Di	RILLING CONTRACTOR:	AET	DRILLING CONTRAC	CTOR PROJECT N	IO:	N	IORTHIN	ig: <b>387</b> 8	384.58	35 E	ASTING: <b>602961.96</b> 4
Second	DAT	E STAR	ΓED:			11/17/	14	REW CHIEF:	MD	DRILL RIG:			C	COORDIN	NATE SY	STEM:		
Section   Compared	DAT	E COMP	LETED:				LC	OGGED BY:		HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	VI	
## SS 1 14 M 2-8-5-9 4	COI	JNTY:					LC	OG QC BY:		HAMMER TYPE:				TREAME	BED ELE	VATION		N/
SS   13 M   2.8.5.9   4	STA	TION	227	5+75			Т	OWNSHIP: RAI	NGE: SECTION:		TION: 1/4	1/4 SECTION:	s	URFACE	ELEVA	TION:		10
SS   14   M   1-3-3-3   2						1.20			l l									
SS   14   M   1-3-3-3   2   2   2   2   2   2   2   2   2		SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Geological Each Major Unit /	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
SS   13   M   2-8-5-9   4						- 1-	·7.12	1.0		ce sand, stiff			_				HSA	
2 13 19 (13)  5 - 6 - 8 - Suff  Suff  SSS 21 M 3-8-6-10 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE			14	M 24	1-3-3-3 (6)			Very stiff					2.0					
SS 21 M 3-8-6-10 9		SS 2	13		2-8-5-9 (13)	- 4 -							3.5					
SS 21 M 3-8-6-10 - 9	3 143 821/15					- 6 -						CL-ML						
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET □ CAVE - IN DEPTH AT COMPLETION: NMR  WET □ CAVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SILVERSPRING DR TO STH 60/GINT/1228-04-01 OZAUKEE CO.GI	SS 3	21		3-8-6-10 (14)								1.8					
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETIO	- 143				ı	<del>' 10</del>	/1/1	, 10.0	End of Boring a	10.0 ft.					1			1
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETI	29-04-01																	
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	143/12							WATER I		N OBSERVA	TION DAT	ГА						
WATER LEVEL AT COMPLETION: NMR  WET L DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z AKEE		ATER	ENCC	DUNTERED	DURIN	IG DI	RILLING: NE		CAVE - IN DE	EPTH AT CC	MPLETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		<u>w</u>	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DE	EPTH AFTER	R 0 HOUR	S:	NMR				WET DRY
2) NE = Not Encountered; NMR = No Measurement Recorded	NO NO								te boundary; gradual trar	sition between in-si	tu soil layers sh	hould be exp	pected.					

WISC.	ONSIN.	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01			3OF		G IE	):	MP103
ATT TOP	TRANSPOR	Mad	ison,	, WI 53704	u.		WISDOT STRUCTURE ID:					AGE NO:				1 of 1
		JECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	WAY N							AET	DRILLING CONTRACTOR PROJECT N	IO:		ORTHIN	3879	09.2	67 E	ASTING: <b>602911.969</b>
	START				1/27/	15		MD	DRILL RIG:			OORDIN				wccs
		LETED:			1/27/	15		AET	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
COUN					Ozauk	e	OG QC BY:  C. Wierzchow	vski	HAMMER TYPE:			ΓREAMB			:	NA
STATI	ON <b>2</b> :	276+0	ONB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SECT	TION:	1/4 SECTION: 1/4	1/4 SECTION:	SI	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ur	cal C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	11	W 25	0-2-2-3 (4)	- 1 -	1/2 1/2 21 1	36" TOPSOIL								HSA	
	SS 2	14	M 28	2-3-2-4 (5)	- 4 - - 5-		3.0 SILTY LOAM, gray/dark gray, m	oist, t	race sand, medium		0.90					
					- 6 - - 7 - - 8 -		8.0			CL-ML						
	SS 3	15	M 12	8-8-7-8 (15)	- 9 -		MEDIUM TO COARSE SAND, b silt, medium dense			SP						
					.5		End of Borin	ng at	10.0 ft.							
							WATER LEVEL & CAV	/F.II	N ORSERVATION DAT	ΤΔ						
$\nabla$	\\\	ATED I	=NICC	UNTERED	DIIBIN	IG D		/E-II	CAVE - IN DEPTH AT CO		N.	7.4ft.				WET  DRY
<u>∡</u>	+			L AT COMF			NMR	185gT	CAVE - IN DEPTH AFTER			NMR				DRY DRY DRY DRY
							resent the approximate boundary; gradua									DKY 🗌
.,51							urement Recorded	. Julic								

Computer   Constitution   Constitu	OF 1	CONSIN.	WI [	ept.	of Transp	ortatio	n	WISDOT PROJECT ID:		1229-04-01				3OF		G II	):	MP104
1-3	ATTREAS	FTRANSTO	Mad	ison														1 of 1
ACT   Content			ME:		I-	13												
12/10/14   12/10/14									AET		CT NO:				3879		72   <sup>E</sup>	ASTING: 602716.023
1/2   1/2						12/10/	14		MD								1.	wccs
SS   19   M   1-5-3-6   2   2   2   3   4   18   19   4   19   19			LETED:			12/10/ <sup>-</sup>	14		AET			4	in					ERTICAL DATUM:
27 WATER LEVEL & CAVE-IN OBSERVATION DATA    Value						Ozauk	e	C. Wierzcho	wski								l:	NA
SS   19   M   1-5-3-6   2	STA	TION <b>2</b>	276+2	5SB	OFFSET	75'	Lt T	DWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	SI	JRFACE	ELEVA	TION:		,
SS 19 M 1-5-3-6 2 Hard  Hard  SS 24 M 3-8-6-13 4 4 5 CL  - 6 - 7 7	SAMPI E TVPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   24   M   3-8-6-13   4			19	M 15	1-5-3-6 (8)	- 1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0	ce san	d & gravel, very stiff			3.75				HSA	
Gray/brown, very stiff  SS 3 24 M 4-7-6-8 9    Gray/brown, very stiff  2.75  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR ORY WATER LEVEL AT COMPLETION: NMR    WATER LEVEL AT COMPLETION: NMR    WATER LEVEL AT COMPLETION: NMR    NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	24		3-8-6-13 (14)	- 4 -		Hard					4.5					
SS 24 M 4-7-6-8 9 -						- 7-		Orgu/brough vonvetiff				CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  MET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	24		4-7-6-8 (13)	- 9 - 10		10.0	ring at	10.0 ft.			2.75					
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY E         ✓       WATER LEVEL AT COMPLETION: NMR       ☐       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR       WET DRY E         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								Life of Bot	y at									
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CA	VE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\overline{\nabla}$	W	ATER	ENCC	DUNTERED	DURIN	IG DI		_			LETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		_	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	Ī	CAVE - IN DEPTH AF	TER 0 H	HOUR	S:	NMR				WET  DRY
	NC								al trans	sition between in-situ soil laye	rs should	be exp	pected.					

Jago.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP105
MATTHERS	OF TRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: 3880	09.7	77 E	ASTING: <b>602812.815</b>
DAT	E STAR	ΓED:			1/20/	15 C	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:	•	wccs
DAT	E COMP	LETED:			1/20/	15	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COI	JNTY:				Ozauk	L	og QC BY:  C. Wierzcho		HAMMER TYPE:				TREAME	BED ELE	VATION	: '	NA
STA	TION	2270	)+00	OFFSET	25'	T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SEC	ΓΙΟΝ:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
L L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7										HSA	
					+ 1 -		CLAYEY SAND, light brown, m	oist, m	edium								
$\left\langle \right\rangle$	SS 1	11	M 22	0-3-2-3 (5)	- 2 -					,	SC						
					3 -		3.0 SILTY FINE SAND, light brown	, mois	, loose								
$\left\langle \right\rangle$	SS 2	12	M 20	1-5-3-5 (8)	- 4 -												
					5-6-					\$	SM						
21/15																	
UKEE CO.GPJ 143 8					- 7 -												
MGINT/1229-04-01 OZ,					8 -		\$8.0 SILTY CLAY, gray, moist, trace	e sand	very stiff								
COUNTIES/OZAUKERI 43/1226-04-01 - 1-43 - SILVERSPRING DR TO STH 60/GINTY1229-04-01 OZAUKEE CO. GPJ 1-43 82/1/15	SS 3	12	M 18	3-5-3-7 (8)	- 9 -					(	CL	3.5					
01 - I-43 - SILVEF					10		10.0 End of Bot	ring at	10.0 ft.								
229-04-0							MATERIES	\	N ODOED! / A TION : 5	A T A							
EN 434	7			=====			WATER LEVEL & CA				<b></b> .						NIET F
ZAUKEE				DUNTERED					CAVE - IN DEPTH AT				NMR				WET  DRY
NTIES/OZ				L AT COMF			NMR	10/4::-	CAVE - IN DEPTH AFT				NMR				WET DRY
NO NO							resent the approximate boundary; gradu urement Recorded	iai tran:	sition between in-situ soil layers	s snould be	е ехр	ected.					

MISCONSIN 3	WI [	ept.	of Transp sman Blvo	ortation	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP106
OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGI	
ROADWAY						RILLING CONTRACTOR: <b>AET</b>	DRILLING CONTRACTOR PROJECT	T NO:		IORTHIN	388	3010.8	1 EASTIN	G: <b>602716.82</b>
DATE STAR				12/10/ <sup>-</sup>	14	REW CHIEF: MD	DRILL RIG:			OORDIN	IATE SY	STEM:		wccs
DATE COM	PLETED:			12/10/ <sup>-</sup>	14	DGGED BY:	HOLE SIZE:	4	in	IORIZON	ITAL DA	TUM:	VERTIC	CAL DATUM:
COUNTY:			(	Ozauk	ee Lo	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAME	BED ELE	VATION:		N/
STATION	2277+0	0SB	OFFSET	75'	Lt	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1 -		12" TOPSOIL  1.0  SILTY CLAY, brown, moist, trace sar	d, hard		-			I	HSA	
SS 1	19	M 16	1-7-5-10 (12)	- 2-					4.5					
SS 2	24	M 14	2-10-17-14 (27)	- 3 -		A-6(2)			4.5	31	17			
1				- 6 -				CL						
				- 7 - - 8 -		Very stiff								
SS 3	23	M 19	3-7-5-9 (12)	- 9 -		10.0			2.75					
1			1	<del>' 10 -</del>	//	End of Boring at	10.0 ft.	_		1				
						WATER LEVEL & CAVE-I	N OBSERVATION DA	ΑΤΑ						
_	/ATER	ENCC	DUNTERED	DURIN	NG DI		N OBSERVATION DA		N:	NMR				WET [ DRY [
			DUNTERED L AT COMP					COMPLETIC		NMR NMR				WET [ DRY [ WET [ DRY [

MISO.	ONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	MP107
WHITE STORE	TRANSPO	Mad	ison	, WI 53704	u. 		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	)WAY N						PRILLING CONTRACTOR:		CT NO:		ORTHIN	3880	82.52	22 E	ASTING: <b>602914.284</b>
	START				11/18/	14	CREW CHIEF:				OORDIN				wccs
		LETED:			11/18/	14	OGGED BY:		4	in	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAME	ED ELE	VATION	l:	NA
STAT	10N <b>2</b>	277+7	5NB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	15	M 18	2-5-5-4 (10)	- 1 - - 2 -		12" TOPSOIL  1.0  SILTY CLAY TO CLAYEY SILT, brow gravel, very stiff	vn, moist, trace sand &	CL-ML	2.25				HSA	
	SS 2 SS 2A	14	M 21 15	3-6-3-14 (9)	- 4 -		3.5  SILT, brown/yellow/gray mottled, moi clay, stiff	st, little sand & gravel, trace		1.5					
					- 6 - - 7 -				SM						
	SS 3	18	M 15	4-11-4-13 (15)			10.0								
					10		End of Boring at	10.0 ft.							
							WATER LEVEL 2 2	N 00000							
	T						WATER LEVEL & CAVE-I				0.0				NET F
V	+			DUNTERED				CAVE - IN DEPTH AT			8ft.				WET DRY
Ā				L AT COMF			NMR	CAVE - IN DEPTH AF			NMR				WET  DRY
NO							resent the approximate boundary; gradual tran urement Recorded	silion between in-situ soil läyei	rs snould be exp	ected.					

NISCONSIN 35	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT	ID:	1229-04-01			во		G IE	<b>)</b> :	MP108
OFTRANS	Mac	lison,	, WI 53704			WISDOT STRUCTU	IRE ID:				PAGE NO				1 of 1
WISDOT PR	OJECT NA	AME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITUE	E:		LC	ONGITUDE:
ROADWAY	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJ	IECT NO:		NORTHI	NG: 388	3210.0	68 EA	STING: <b>602810.47</b>
DATE STAR	TED:			1/20/	15 C	REW CHIEF:	MD	DRILL RIG:			COORDI				WCCS
DATE COMP	PLETED:			1/20/	L	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZO	NTAL DA	TUM:	VE	ERTICAL DATUM:
COUNTY:				Ozauk	L	OG QC BY:	C. Wierzchowski	HAMMER TYPE:		7	STREAM	BED ELE	VATION	:	NA
STATION	279+0	ONID	OFFSET	33'	T	OWNSHIP: RANGE		1/4 SECTION:	1/4 1/4 SECT	ON:	SURFAC	E ELEVA	TION:		NA.
	279+0	UND		33											
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E.	Soil / Rock Des and Geological ( ach Major Unit / (	Origin for		Strength Qp	(IST) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1 -		1.0	it brown, moist, trace	e sand, stiff						HSA	
SS 1	15	M 16	2-5-4-6 (9)	- 2 -		3.0			C	∟ 1.7	0				
SS 2	9	M-W 19	3-5-4-6 (9)	- 4 - - 5 <sub>\sqrt</sub>		SILTY CLAY, bro	wn, moist to wet, littl	e sand, stiff							
				- 6 - - 7 -					C	L					
SS 3	0	W	28-15-16- 12 (31)			Wet, hard									
				10			End of Boring at	10.0 ft.							
						WATED I F	\/EL & C \\ \/E !!	N OBSERVATION							
	/ATCD	ENICO	N INITEDES	ייטו וטיי	10.5			I		CION!	6.05				WFT 🗆
∑ w			UNTERED					CAVE - IN DEPTH A			6.8ft.				WET DRY WET WET
₩ W			L AT COMF			NMR		CAVE - IN DEPTH AI			NMR				WET  DRY
NOTES:						resent the approximate bu urement Recorded	ounaary; gradual trans	sition between in-situ soil lay	ers snould be	expecte	u.				

A SE	3502	ept. Kin	of Trans	portation	on	WISDOT PROJECT ID:	1229-04-01				NG ID	):	MP110
WISDOT PF	Mad	ison	WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			SE NO:		li a	1 of '
		IME:		I-	43			IFOT NO.					
ROADWAY						RILLING CONTRACTOR:		JECT NO:			388360.4	2	ASTING: 602825.78
DATE STAR				1/20/	15	REW CHIEF:					SYSTEM:		WCC
DATE COM	PLETED:			1/20/	15	OGGED BY:		4 in		RIZONTAL		VE	ERTICAL DATUM:
COUNTY: STATION			OFFSET	Ozauk	ee	OG QC BY:	HAMMER TYPE:	1/4 1/4 SECTION:			ELEVATION:		N/
7771101	2280+5	ONB	OTTOET	25'	Lt	TURISE. GESTION	. III-GEOTION.	174 174 GESTION.	1001	W MOE EE	T T		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	11	M 19	2-6-5-6 (11)	- 1 -		1.0 SILTY LOAM, brown/yellow mottled very stiff	, moist, trace sand & gravel	, CL-ML 2	.75			HSA	
SS 2	17	M 15	3-7-4-8 (11)	3 -		3.0 SILTY CLAY, gray/brown mottled, r	noist, trace sand, very stiff	3.	.75				
				- 6 -				CL					
SS 3	24	M 17	3-8-6-11 (14)			Hard  10.0	nt 10 0 ft	4	ł.5				
						End of Boring	at 10.0 It.						
		_				WATER LEVEL & CAVE		DATA					
							The state of the s						
✓ w	/ATER	ENCC	UNTERE	D DURII	NG D	RILLING: NE	CAVE - IN DEPTH A	T COMPLETION:	N	IMR			WET [ DRY [ WET [ DRY [

AND AND	CONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP111
ATTREAS	FTRANSPOR	Mad	ison	, WI 53704	!		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3896	604.1	58 E	ASTING: <b>602979.79</b>
	E STAR				11/18/ <sup>-</sup>	14	REW CHIEF:	MD	DRILL RIG:					NATE SY	STEM:	•	wccs
DAT	E COMP	LETED:			11/18/ <sup>-</sup>	14	OGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	NTY:				Ozauke	e Lo	OG QC BY:  C. Wierzcho		HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	N.A
STA	TION 2	293+0	0NB	OFFSET	65'	Rt	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 S	ECTION:	SI	JRFACE	ELEVA	TION:		
SAMBI E TVBE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	7	M 18	2-3-3-3 (6)	- 1 -	11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12" TOPSOIL  1.0  SILTY CLAY, light brown, mois	st, trace	e sand, stiff			1.25				HSA	
	SS 2	23	M 18	2-7-3-7 (10)	- 4 -		Gray/brown, very stiff					3.75					
					- 6 -						CL						
wc Ā	SS 3	24	M 17	4-9-6-11 (15)	- 9 - 10		10.0					3.25					
					10		End of Bo	ring at	10.0 ft.								
$\vdash$							WATER LEVEL & CA	VF-I	N OBSERVATION D	ΑΤΑ							
$\overline{\nabla}$	· w	ATFR	ENCC	DUNTERED	DURIN	IG DI			CAVE - IN DEPTH AT		LETIC	N.	NMR				WET DRY
				L AT COMF			NMR	154	CAVE - IN DEPTH AFT				NMR				DRY C WET C DRY C
NC.							resent the approximate boundary; gradu	ıal tran									טאץ _
Ľ							urement Recorded	.s. aun		_ 5.70a/u	0.						

430 ·	SCONSIN 3	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	D:	MP112
MATTHERS	OF TRANSPOR	Mad	ison	sman Bive , WI 53704	u. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR:	T	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3896	613.1	86	ASTING: <b>602804.025</b>
	E STAR				12/09/	14	CREW CHIEF:	D	ORILL RIG:				OORDIN	NATE SY	/STEM:		wccs
DAT	E COMP	LETED:			12/09/	14	OGGED BY:	т	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	\	/ERTICAL DATUM:
COL	JNTY:				Ozauk	L	.og QC BY: C. Wierzchowski	γi	HAMMER TYPE:			s	TREAME	BED ELE	VATION	N:	N/
STA	TION 2	293+0	0SB	OFFSET	65'	Т	OWNSHIP: RANGE: SECTION:	N:	1/4 SECTION:	1/4 1/4 SE	CTION	: S	URFACE	ELEVA	TION:		
اِ											0			(%		р	
1 1 1 1 1 1 N N N N N N N N N N N N N N	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	I Or	igin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						1/ 1/1 2/ 1/v	12" TOPSOIL									HSA	4
						<u>\11/</u> .											
Ь					1 -	1/2 1	1.0 FINE TO MEDIUM SAND, brown, mo	noist	t to wet, some silt, little			1					
1							gravel, loose										
$\bigvee$																	
X	SS 1	12	M 16	2-3-2-1 (5)	- 2 -												
$\Lambda$			10	(3)													
$/\setminus$																	
					<u> </u> 3 -												
\ /																	
$\backslash /$																	
V	SS	10	М	3-5-5-4	- 4 -												
Λ	2	.0	10	(10)	-												
$/ \setminus$											SP						
/ \					<u> </u>												
					6 -												
					Δ												
					- 7 -		:										
					璃												
					8 -		8.0 SANDY SILT, brown, wet, soft					1					
$\setminus$																	
$\bigvee$																	
X	SS 3	14	W 20	2-2-2-2 (4)	- 9 -						SM						
							:										
$/\setminus$																	
$\vdash$					10		10.0 End of Boring a	at 10	0.0 ft.								
										Λ.Τ.Λ							
$\bar{\Sigma}$	7 \14/	ΔΤΕΡ	ENICC	OUNTERED	יוםו וח ו	1G D	WATER LEVEL & CAVE-I		CAVE - IN DEPTH AT		ETIC	NI:	7.8ft.				WET  DRY
<u>⊿</u>	_			L AT COMF			NMR		CAVE - IN DEPTH AT				NMR				DRY ☐ WET ☐ DRY ☐
_							resent the approximate boundary; gradual trar										DKY [
Ĺ							urement Recorded				4						

CONSIDERATION   CONSIDERATIO	ANSCONSIN.	WI D	ept.	of Transp	ortatio	on	WISDOT P	ROJECT ID:		1229-04-0	01					G IE	):	MP113
Comment   Comm	THE OF TRANSPORT	Mad	ison	, WI 53704	4. 1			TRUCTURE ID:										1 of 1
SSS   13   M   2-4-3-5   2			ME:		I-4	43												ONGITUDE:
11/18/14   OPEN COMPLETED.   11/18/14   OPEN CONTINUE STREAM	ROADWAY NAM	ME:				D	RILLING CONTRACT	OR:	AET	DRILLING CONTRACTOR I	PROJECT NO:		N	IORTHIN	G: <b>389</b> 8	303.89	94 E	ASTING: 602990.053
Table   County   Co	DATE STARTE	D:			11/18/	14 °	REW CHIEF:		MD	DRILL RIG:			C	OORDIN	IATE SY	STEM:		wccs
County   C	DATE COMPLE	ETED:				L	OGGED BY:			HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
Section   MA 144 Section   Supplied   State   Section   MA 144 Section   Supplied   Su	COUNTY:					L	OG QC BY:	C. Wie		HAMMER TYPE:				TREAME	BED ELE	VATION:	:	N/A
SS   14   M   24-3-5   2   Sulf   S	STATION 229	95+00	ONR			Т	OWNSHIP:		SECTION:	1/4 SECTION:	1/4 1/4 5	SECTION	S	URFACE	ELEVA	TION:		
SS 13 M 2-4-3-6 - 4 Stiff  SILTY CLAY, brown, moist, trace sand & gravel, very stiff  2.5  Suff  CL  CL									<u>"</u>	'	'							
SS 13 M 20 2-4-3-6 - 4 - Stiff  SILTY CLAY, brown, moist, trace sand & gravel, very stiff  2.5  Stiff  CL  CL	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)				and ( Each M	Geological (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			Notes
1 14 19 (7) 2 3 Stiff  SS 13 M 2-4-3-6 - 4 5 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6					- 1-		1.0		oist, trace san	d & gravel, very stiff							HSA	
SS 2 13 M 20 2-4-3-6 - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6		14		2-4-3-5 (7)	- 2 -								2.5					
- 6 -	SS 2	13		2-4-3-6 (7)			Stiff						2.0					
SS 3 24 M 4-12-8-16 9 4.5 10.0 End of Boring at 10.0 ft.					- 6 -							CL						
	SS 3	24		4-12-8-16 (20)				Enc	d of Boring at	10.0 ft.			4.5					
ä																		
WATER LEVEL & CAVE-IN OBSERVATION DATA							WATE	R LEVEL	& CAVE-II	N OBSERVATIO	N DATA							
y WATER ENCOUNTERED DURING DRILLING: NE ₩ CAVE - IN DEPTH AT COMPLETION: NMR	$\nabla$ wa	TER E	ENCC	DUNTERED	DURIN	IG D	RILLING: NI	E	Ē	CAVE - IN DEPTH	H AT COMF	PLETIC	N:	NMR				WET DRY
WATER LEVEL AT COMPLETION: NMR	▼ WA	TER L	EVE	L AT COMF	PLETIO	N:	NMR			CAVE - IN DEPTH	H AFTER 0	HOUR	S:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES: 1)								y; gradual trans	sition between in-situ so	il layers shoul	d be exp	pected.					

OED.	CONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOI		G IE	):	MP114
ATTACK	OF TRANSPOR	Mad	lison,	, WI 53704			WISDOT STRUCTURE ID:					PAGE NC				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			LATITUD				ONGITUDE:
	DWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTHIN	3900	002.60	)5	ASTING: <b>603020.286</b>
	E STAR				11/18/	14	REW CHIEF:	MD	DRILL RIG:			COORDII	NATE SY	STEM:		wccs
DAT	E COMP	LETED:			11/18/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
COL	INTY:				Ozauk	ee	OG QC BY: C. Wierz	chowski	HAMMER TYPE:			STREAM	BED ELE	VATION:		N/
STA	TION 2	297+0	0NB	OFFSET	85'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTION	N:	SURFACE	ELEVA	TION:		
DOVE TIGMAS	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge	Rock Des ological ( jor Unit / (	cription Origin for Comments	USCS / AASHTO	Strength Op	(tst) Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					_ 1 -			t, trace san	d, very stiff						HSA	
$\bigwedge$	SS 1 SS 1A	12	M 33 M 17	2-3-2-5 (5)	- 2 -		Stiff				2.2	5				
$\bigvee$	SS 2	8	M 24	2-5-3-5 (8)	- 4 -		Suii				1.5	5				
					- 6 -					CI	-					
	SS 3	24	M 18	2-6-4-8 (10)	- 8 - - 9 -		Gray, trace gravel, very sti		10.0 <del>f</del>		3.0	)				
					. •		End o	of Boring at	10.0 π.							
							WATER   FVFI &	CAVF-II	N OBSERVATION D	ATA						
$\overline{V}$	. w	ATFR	ENCC	OUNTERED	DURI	NG D		DAVE-II	CAVE - IN DEPTH AT		ION.	NMR				WET DRY
7	_			L AT COMF			NMR	1 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAVE - IN DEPTH AFT			NMR				DRY C WET C DRY C
NC							resent the approximate boundary; g	aradual trans								DRY L
Ĺ							urement Recorded	, aaaan nan	som som myer	_ 554.4 DG (	,					

S S S	WI D	ept.	of Transp sman Blvo	ortatio	n	WISDOT PROJECT ID:	1229-04-01				G ID:	MP115
NOF TRANSPORT	Mad	ison,	WI 53704	u. ļ		WISDOT STRUCTURE ID:			PAGE NO			1 of '
WISDOT PRO		ME:		I-	13	ONSULTANT:	CONSULTANT PROJECT NO:		LATITUE			LONGITUDE:
ROADWAY N	AME:					RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJEC	T NO:	NORTHI	NG: 390(	012.659	EASTING: 602824.544
DATE START	ED:			12/09/ <sup>-</sup>	14	REW CHIEF:	DRILL RIG:		COORDI			WCC
DATE COMPL	ETED:			12/09/	LO	DGGED BY:	HOLE SIZE:	4 in	HORIZO	NTAL DA	TUM:	VERTICAL DATUM:
COUNTY:				Ozauk	LC	OG QC BY:  C. Wierzchowski	HAMMER TYPE:	7 111		BED ELE	VATION:	N.
STATION	297+0	nep	OFFSET	65'	Т	DWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SURFAC	E ELEVA	TION:	IN/
	291+0	JOB		65								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes
				- 1-	\(\frac{1}{1}\frac{1}{1}\) \(\frac{1}{1}\frac{1}{1}\) \(\frac{1}{1}\frac{1}{1}\) \(\frac{1}{1}\frac{1}{1}\) \(\frac{1}{1}\frac{1}{1}\frac{1}{1}\)	48" TOPSOIL					H	SA
SS 1	19	M 18	2-4-3-5 (7)	- 2-								
SS 2 SS 2A	19	M 18 M 17	2-6-4-5 (10)	- 4 -		4.0 FINE TO MEDIUM SAND, brown, mo	oist, trace silt, loose					
				- 6 - - 7 - \sum_				SP				
SS 3	14	W 22	2-8-5-9 (13)	- 8 - - 9 -		Wet, medium dense						
1				10	<u> </u>	10.0 End of Boring a	10.0 ft.					
						<b>3</b> ·						
						WATER LEVEL & CAVE-	N OBSERVATION D	ATA				
			LINITEDED	DLIDIN	IC DI	RILLING: 7.4ft.	CAVE - IN DEPTH AT		8.2ft			WET [ DRY [
$\nabla$ wa	ATER E	ENCO	UNTERED	DOKIN	וט טו	TILLING. 1.41C.		COMI EL MON.	0.211			DDV I
			_ AT COMP			NMR	CAVE - IN DEPTH AFT		NMR			DRY   WET DRY

OED.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP116
HTMER	OFTRANS	Mad	lison	, WI 53704	4. 1		WISDOT STRUCTURE ID:					AGE NO				1 of 1
WIS	DOT PR	OJECT NA	AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:		L	ATITUDI	E:		L	ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJECT	NO:	N	IORTHIN	ig: 3902	203.30	8 E	ASTING: 603010.572
DA	TE STAR	TED:			11/18/	14	REW CHIEF:	MD	DRILL RIG:		C	OORDIN	NATE SY	'STEM:		wccs
DA	TE COMP	LETED:			11/18/	L	OGGED BY:	AET	HOLE SIZE:	4	·in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	L	og qc BY:  C. Wierzcho		HAMMER TYPE:			TREAME	BED ELE	VATION		N/A
STA	ATION 2	299+0	ONR	OFFSET	65'	Т	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION: 1	/4 1/4 SECTION	: S	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		Soil / Rock and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -	7 7 7 7	<sup>7</sup> 41.0	D. bro	un maiat traca groupl von						HSA	A
	SS 1	11	M 19	1-1-2-3 (3)	- 2 -		SILTY FINE TO MEDIUM SANI loose to loose	D, bro	wn, moist, trace gravel, very							
	SS 2	11	M 13	1-5-4-7 (9)	- 4 -					SM						
20.GPJ 143 821/15					- 6 -											
AUKEE (							8.0									
4-01 OZ					8 -		CLAYEY SILT, gray/brown, mo	ist, litt	e sand, loose		1					
DOUNTIESIOZAUKEEL43/1229-04-01 - 143 - SILVERSPRING DR TO STH ØNGINNT228-04-01 OZAUKEE OD GPJ 143 82/1/5	SS 3	24	M 17	1-3-2-2 (5)	- 9 -					CL-MI	-					
143 - SIL					10	И	10.0 End of Bor	ring at	10.0 ft.							
-04-01 -							2.12 01 001	ی سر								
13/1229-i							WATER LEVEL & CA	VE-I	N OBSERVATION DA	ATA						
Z	Z w	ATER	ENCC	DUNTERED	DURIN	NG D			CAVE - IN DEPTH AT C		N:	NMR				WET DRY
SIOZAU	_			L AT COMF			NMR		CAVE - IN DEPTH AFTE			NMR				WET DRY
NO NO	OTES: 1	1) Stratifi	ication	lines between	soil type	es repi	resent the approximate boundary; gradu	al tran								DIXT
ğ							urement Recorded		-							

1,26914   1,2	OEF -	SCONSIN.	WI E	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G IE	):	MP118
1-3	MATTHERS	OF TRANSPOR	Mad	ison	, WI 53704	u.  -										
1209H   120				ME:		I-	43									
120914								AET		CT NO:			3903		33 E	ASTING: <b>602824.847</b>
County   C						12/09/	14	MD								
SS   10   M   2-4-4-6   2   2-5			LETED:			12/09/	14			4 i		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
2300-0958	COL	JNTY:				Ozauk	e L	C. Wierzchowski	HAMMER TYPE:		ST	REAMB	ED ELE	VATION:		NA
SS 10 M 2-4-4-6 2 3 3 3 3 3-4-4-6 4 2 3 5 5 5 1 3 M 3 3-4-4-6 5 2 5 5 5 5 1 3 M 4 18 4-7-5-7 9 5 FNE SAND, gray/brown, wet, trace all, modium dense    SS 14 M 4-7-5-7 9 5 FNE SAND, gray/brown, wet, trace all, modium dense    WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 7.8ft.	STA	TION 2	300+0	0SB	OFFSET	73'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SL	JRFACE	ELEVA <sup>*</sup>	TION:		
SS 10 M 17 24-4-6 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS MM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose  SS MM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose  SM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose  SM SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose  SM SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose  SM SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose lity medium dense  SM SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose lity medium dense  SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose lity medium dense  SM SIM SILTY FINE TO MEDIUM SAND, brown, moist to wet, trace clay, loose lity medium dense			10		2-4-4-6 (8)										HSA	
SS 14 M 4-7-5-7 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7ft.  WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		2	13	32 M	3-4-4-6 (8)		1/2 \(\frac{1}{2}\)	4.5 SILTY FINE TO MEDIUM SAND, bro	wn, moist to wet, trace clay,							
SS 14 M 4-7-5-7 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7ft. CAVE - IN DEPTH AT COMPLETION: 7.8ft. ORY						- 6 - - 7 <sup>∑</sup>				SM						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: 7ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: 7.8ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bigvee$		14					10.0		SP						
✓       WATER ENCOUNTERED DURING DRILLING: 7ft.       ☑       CAVE - IN DEPTH AT COMPLETION: 7.8ft.       WET DRY         ✓       WATER LEVEL AT COMPLETION: NMR       ☐       CAVE - IN DEPTH AFTER 0 HOURS: NMR       WET DRY         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	L															
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bar{\Sigma}$	_ w	ATER	ENCC	DUNTERED	DURIN	IG D	RILLING: 7ft.	CAVE - IN DEPTH AT	COMPLETION	۷:	7.8ft.				WET □ DRY □
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bar{A}$	<u></u>	ATER	EVE	L AT COMF	PLETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOURS	S: I	NMR				WET  DRY
	NC								sition between in-situ soil layer	rs should be expe	ected.					

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LO	- WIE	SCONSIN.	350°	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP119
1.4	HTTMERS	OF TRANSPOR	Mad	ison														1 of 1
Second   S				ME:		I-	43											ONGITUDE:
11/18/14									AET		CT NO:				3905		)7 E	ASTING: <b>603028.527</b>
SS   17 M   4-11-29   4   11-32-3   5   14   M   4-83-10   2   2   2   2   2   3   3   3   3   3						11/18/	14		MD									wccs
Section   Compare   Comp	DAT	E COMP	LETED:			11/18/	14	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
Section	COL	JNTY:			(	Ozauk	ee	OG QC BY:  C. Wierzch	nowski	HAMMER TYPE:			S	FREAME	ED ELE	VATION	:	N/
SS   17   M   4-11-9-0   4   -	STA	TION 2	302+5	0NB	OFFSET	65'	Rt T	OWNSHIP: RANGE: S	SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SS   14 M   4-8-3-10   2	SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geold	ogical C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 17 M 4-11-9-9 4  - 6  - 7  - 8  - 7  - 8  - 7  - 8  - 7  - 8  - 7  - 8  - 8			14		4-8-3-10 (11)		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.0 MEDIUM TO COARSE SAND	D, brown	, moist, some gravel,							HSA	
SS 23 M 1-3-2-3 - 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH ATTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	17		4-11-9-9 (20)	- 4 -						SP						
SS 23 M 1-3-2-3 - 9  10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	AUREE CO.GFU 143 8/21/15					- 7-		80										
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43 - SILVERSPRING DK TO STH 60/GIN 1/1229-04-01 O.	SS 3	23					FINE SANDY SILT, gray, moi				SM	0.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LOWER - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	-1-04-01							Enu OI B	wiiiy al	10.0 10.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	341229-0							WATER LEVEL & CA	AVE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Ž V	_ w	ATER	ENCO	DUNTERED	DURII	NG D					ETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Siloza	_								-								WET [
	NC	TES: 1	1) Stratifi	cation	lines between	soil type	es repi	resent the approximate boundary; grac	dual trans									DICT L

MISC.	CONSIN.	WI E	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	<b>)</b> :	MP120
HATTIMETS OF	TRANSPOR	Mad	ison,	sman Bive , WI 53704	u. 		WISDOT STRUCTURE ID:				AGE NO				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	OWAY N						PRILLING CONTRACTOR:		ECT NO:		ORTHIN	3906	612.12	<b>26</b> E	ASTING: <b>602850.33</b>
	START				12/09/	14	CREW CHIEF:				OORDIN				wccs
		LETED:			12/09/	14	OGGED BY:		4	in H	ORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COUN	NTY:				Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S <sup>-</sup>	TREAME	BED ELE	VATION	l:	NA
STAT	ION 2	303+0	0SB	OFFSET	70'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	10	M 22	2-5-4-6 (9)	- 1 - - 2 - - 3 -		54" TOPSOIL							HSA	
	SS 2	15	M 25 18	3-5-5-7 (10)	- 4 -		4.5 SANDY LOAM, dark brown, moist								
					- 6 - - 7 -		8.0		CL-ML						
	SS 3	16	W 17	3-3-3-3 (6)	- 9 -		SILTY FINE SAND, gray, moist, trace		SM	0.5					
							End of Boring at	. 10.0 IL.							
							WATER LEVEL & CAVE-I	N OBSERVATION D	DATA						
$\nabla$	W	ATER	ENCC	DUNTERED	DURIN	IG D				N:	8.2ft.				WET  DRY
<u></u>	+			L AT COMF			NMR <b>I</b>				NMR				WET DRY
							resent the approximate boundary; gradual tran								DICI _
							urement Recorded								

MAJO.	NSIN. 30E	WI E	ept. Kin	of Trans sman Blv	portatio	on	WISDOT PROJECT ID:	1229-04-01				G ID	:	MP121
WICD	RANSON DO	Mad DJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:		PAGE			lı o	1 of 1
	WAY N		MVIE:		l-	43	ONSULTANT: RILLING CONTRACTOR:	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT	CT NO:	NORT				ASTING:
	START						REW CHIEF:	DRILL RIG:	JI NO.		390 DINATE S	701.68	3	603056.195
		LETED:			11/19/	14	MD OGGED BY:	HOLE SIZE:			ONTAL D		VE	WCCS
COUN					11/19/	14	OG QC BY:	HAMMER TYPE:	4 ir	۱	MBED EL			
STATIO	ON			OFFSET	Ozauk	<b>9e</b>	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:		CE ELEV			N/A
	2	340+0	ONB		85'	Rt								
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -		12" TOPSOIL  1.0  FINE SANDY LOAM, gray to dark gray	y, moist, soft				ŀ	ISA	
	SS 1	4	M 27	1-2-2-3 (4)	- 2-				CL-ML					
	SS 2	12	M 16	2-3-2-2 (5)	- 4 -		3.0  FINE TO MEDIUM SILTY SAND, brown loose  4.0  FINE SANDY SILT, light brown mottle		SM					
	SS 2A		M 18		5-		medium							
					- 6 -				SM					
					- 7 -									
	SS 3	17	M 19	3-4-4-3 (8)	- 9 -		8.0 SILTY FINE SAND, gray, moist, medi	um	SM					
					10		10.0 End of Poring of	10.0 ft						
							End of Boring at							
							WATER LEVEL & CAVE-II							=
<u></u>	_			DUNTERE				CAVE - IN DEPTH AT						WET DRY
Ā				L AT COM			NMR	CAVE - IN DEPTH AFT			R			WET _ DRY _
NOT							resent the approximate boundary; gradual trans urement Recorded	sition between in-situ soil layer	rs should be exped	cted.				

WISDOT PROJECT NAME:  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  AET  DRILLING CONTRACTOR:  DRILLING CONTRACTOR PROJECT NO:  AET  DRILLING CONTRACTOR PROJECT NO:  NORTHING:  390902.446  603046.481  603046.481  WCCS  DRILL RIG:  COORDINATE SYSTEM:  WCCS  T1/19/14  AET  AET  HOLE SIZE:  HORIZONTAL DATUM:  VERTICAL DATUM:  STREAMBED ELEVATION:	o die	CONSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				ВОБ		G II	): 	MP122
143	HIMERYO	FTRANS	Mad	ison	, WI 53704	ŭ. 												1 of 1
March   Marc				MÉ:		l-	43				OT NO							
11/19/14   11/19/14   11/19/14   10/19/14								AET	Τ		UT NO:				3909	02.4	46 E	ASTING: 603046.481
Column   C						11/19/	14	MD	D									wccs
Company   Comp			LETED:			11/19/	14	AET	Τ			4	in					ERTICAL DATUM:
SS   15   M						Ozauk	ee	C. Wierzchowski	(i								l:	NA
SS   10   M   2-3-2-3   2   2   2   2   2   2   2   2   2	STAT	TION <b>2</b>	306+0	0NB	OFFSET	65'	Rt T	TOWNSHIP: RANGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 SEC	TION:	S	JRFACE	ELEVA	TION:		
SS 10 M 2-3-2-3 - 2 - 3   MEDIUM TO COARSE SAND, brown, moist, trace sit, with gravel, bose   SS 15 M 2-4-3-4 - 4   4.0   SILTY FINE SAND, brown, moist, loose   SS 2A   M   2-4-2-4   9   SILTY FINE SAND, brown, moist, loose   SM   1.5   SM   1.5   SILTY FINE SAND, brown, moist, loose   SM   1.5   SM   SM   1.5   SM   SM   SM   SM   SM   SM   SM   S	SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geological	Or	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   15   M   2-4-3-4   4   4.0   SilTY FINE SAND, brown, moist, trace silt, with gravel, loose   SP   SP   SP   SP   SP   SS   16   SS   M   16   SILTY FINE SAND, brown, moist, loose   SM   SILTY FINE SAND, brown, moist, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   1.5   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   1.5   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   1.5   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   1.5   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SILTY FINE SAND, gray, wet, little clay, loose   SM   SM   SM   SM   SM   SM   SM   S			10			- 1 -		36" TOPSOIL									HSA	
SS 24 M 2-4-2-4 - 9 - SILTY FINE SAND, gray, wet, little clay, loose  SS 24 M 20 2-4-2-4 - 9 - SM 1.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 7.8ft. MET ORY WATER LEVEL AT COMPLETION: NMR CAVE-IN DEPTH AFTER 0 HOURS: NMR		2 SS	15	14 M		- 4 -		MEDIUM TO COARSE SAND, brown gravel, loose				SP						
SS 24 M 20 2-4-2-4 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.8ft.  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT COMPLETION: 7.8ft.  CAVE - IN DEPTH AFTER 0 HOURS: NMR						- 6 -						SM						
WATER LEVEL & CAVE-IN OBSERVATION DATA   VATER ENCOUNTERED DURING DRILLING: 7.8ft.  VATER ENCOUNTERED DURING DRILLING: 7.8ft.  VATER LEVEL & CAVE - IN DEPTH AT COMPLETION: 7.8ft.  VATER LEVEL AT COMPLETION: NMR  VATER LEVEL & CAVE - IN DEPTH AFTER 0 HOURS: NMR  VATER LEVEL & CAVE - IN DEPTH AFTER 0 HOURS: NMR			24					SILTY FINE SAND, gray, wet, little cl				SM	1.5					
▼       WATER ENCOUNTERED DURING DRILLING: 7.8ft.       Ø       CAVE - IN DEPTH AT COMPLETION: 7.8ft.       7.8ft.       WET DRY ENCOUNTERED DURING DRILLING: 7.8ft.         ▼       WATER LEVEL AT COMPLETION: NMR       ■       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR								End of Boring a	at 1	บ.บ เเ.								
▼       WATER ENCOUNTERED DURING DRILLING: 7.8ft.       Ø       CAVE - IN DEPTH AT COMPLETION: 7.8ft.       7.8ft.       WET DRY ENCOUNTERED DURING DRILLING: 7.8ft.         ▼       WATER LEVEL AT COMPLETION: NMR       ■       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR								WATER LEVEL & CAVE-	-IN	OBSERVATION D	ATA							
▼ WATER LEVEL AT COMPLETION: NMR	$\nabla$	W	ATER	ENCC	DUNTERED	DURI	NG D		$\overline{}$			ETIC	N:	7.8ft.				WET [
		+							-									WET [
2) NE = Not Encountered; NMR = No Measurement Recorded		TES: 1	) Stratifi	cation	lines between	soil type	es rep	resent the approximate boundary; gradual trar	nsit									5

MINISTER   12/09/14   19/09/15	A SCONSIN	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	):	MP123
A	OFTRANS	Mac	lison	, WI 53704	u. 												1 of
SS   12 M   2-3-3-3   3	WISDOT PR	ROJECT NA	ME:		I-4	43 C	CONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUDE	Ε:		L	ONGITUDE:
12,0914	ROADWAY	NAME:						ĒΤ	DRILLING CONTRACTOR PROJEC	CT NO:		N	IORTHIN	IG: <b>390</b> 9	11.47	<b>4</b> E	ASTING: <b>602870.71</b>
Second Comparison   1985   1	DATE STAR	RTED:			12/09/	14	CREW CHIEF:		DRILL RIG:			C	OORDIN				
SS   12   M   2.5.4.5   4   M   2.5.4.5   4   M   10.0   End of Birthy at 10	DATE COMP	PLETED:				L	OGGED BY:		HOLE SIZE:		1		IORIZON	ITAL DA	TUM:	V	
SS   17 M   2-3-4-5   17 M   2-3-4-5   4	COUNTY:					L	OG OC BY:		HAMMER TYPE:				TREAME	BED ELE	VATION		N
SS   12   M   2.3-3-3   2   2.3   2.3   2.3   3.0	STATION	2200.0	00D			Т	O. WIETZCHOWS OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		IN/
SS   12   M   2-3-3-3   2   2   2   30   23-3-3   3   30   30   80   23-3-3   3   30   80   80   80   80   80   80		2300+0	USB		65	<u> </u>											
SS   12   M   2-3-3-3   2   2   2   2   2   2   2   2   2	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
FINE TO MEDIUM SAND, brown, moist, trace sit, loose  SS 14 M 2-5-4-5 4 SP  FINE TO MEDIUM SAND, brown, moist, trace sit, loose  SP  SP  SP  SP  SP  SS 17 M 2-2-2-2 9 SILTY FINE SAND, gray, moist, trace day, very loose  SILTY FINE SAND, gray, moist, trace day, very loose  SM  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER O HOURS: NMR  SET 1007ES: 1) Stratification lines between sail types represent the approximate boundary, gradual transfero between in-aftu soil layers should be expected.		12		2-3-3-3 (6)												HSA	
SS 17 M 2-2-2-2 9 - SILTY FINE SAND, gray, moist, trace clay, very loose  SM  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 7.9ft. DRY  WATER LEVEL AT COMPLETION: NMR  OTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SS 2	14		2-5-4-5 (9)	- 4 -			moi	st, trace silt, loose								
SILTY FINE SAND, gray, moist, trace clay, very loose  SS 17 M 2-2-2-2 9 10 10.0  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.7ft.  WATER LEVEL AT COMPLETION: NMR  MOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.					- 7 - □ □						SP						
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: 7.7ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: 7.9ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ ONES: 1) Stratification between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SS 3	17					10.0				SM						
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: 7.7ft.  ✓ WATER ENCOUNTERED DURING DRILLING: 7.7ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL & CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER L																	
✓       WATER ENCOUNTERED DURING DRILLING: 7.7ft.       ☑       CAVE - IN DEPTH AT COMPLETION: 7.9ft.       WET DRY         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR         NOTES: 1) Stratification between sold by the proposition of the							WATER LEVEL & CAVE	E-I1	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$  \nabla  $ w	ATER	ENCC	UNTERED	DURIN	IG D	RILLING: 7.7ft.	<b>E</b>	CAVE - IN DEPTH AT	COMP	LETIC	N:	7.9ft.				WET [ DRY [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	∡ w	/ATER	LEVE	L AT COMP	PLETIO	N:	NMR J		CAVE - IN DEPTH AFT	TER 0	HOUR	:S:	NMR				WET [ DRY [
>	NOTES:							rans	ition between in-situ soil layer	rs should	be exp	pected.					

MADE   PROJECT MADE	S WISC	ONSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				3OF		G IE	):	MP124
1.45   11   11   11   11   12   12   12   1	ATTACK OF	TRANS	Mad	ison,	, WI 53704	ĭ.												1 of 1
### 14/19/14   ### 16/19/19/19/19/19/19/19/19/19/19/19/19/19/				ME:		I-	43											ONGITUDE:
Marticle									AET		CT NO:				3911	52.1	17 E	ASTING: <b>603059.306</b>
Second   Compared						11/19/	14		MD						ATE SY	STEM:		wccs
SS   11	DATE	COMP	LETED:			11/19/	14	OGGED BY:	AET	HOLE SIZE:		<b>4</b> i		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
SS   11    M	COUN	NTY:					L	og QC BY: C. Wierzch		HAMMER TYPE:			S	REAMB	ED ELE	VATION	:	N.A
SS   11   M   2.4.2.4   2   2   2   2   2   2   2   2   2	STAT	ION 2	308+5	0NB	OFFSET	65'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
SS   11   M   24-24   2   2   2   2   2   2   2   2   2	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geol	ogical C	Origin for		USCS / AASH I O	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
FINE TO MEDIUM SAND, brown, moist, trace sit, loose    SS   12   M   1-4-2-4   4			11														HSA	
SS 21 M 2-2-2-3 9		SS 2	12	M 23	1-4-2-4 (6)	- 4 -			rown, moi	st, trace silt, loose								
SS 21 M 22 -2-2-3 - 9 - 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR WET DRY  WATER LEVEL AT COMPLETION: NMR WET ORY:  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7					- 7 -					S	SP						
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  ✓ NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	STELL BOYGIN IVIZZA-	SS 3	21					10.0			S	M	0.75					
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY IN DEPTH AT COMPLETION: NMR         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR       WET DRY IN DEPTH AT COMPLETION: NMR         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	- 10+0-6								-									
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/122							WATER LEVEL & C	AVE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	<del>-</del>	W	ATER	ENCC	UNTERED	DURI	NG D	RILLING: NE	<b>₽</b>	CAVE - IN DEPTH AT	COMPLE	TIOI	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	T T	W	ATER	EVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AFT	TER 0 HC	URS	3:	NMR			_	WET [ DRY [
CLOVE TO COLOUR DE DIVINO TO LA PROPERTICIO DE LA PORTE DEL PORTE DEL PORTE DE LA PORECIONA DE LA PORTE DE LA PORTE DE LA PORTE DE LA PORTE DE LA PORT	NO.								adual trans	ition between in-situ soil layer	rs should be	expe	ected.					<u> </u>

S SCONSIN	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	MP125
THE OF TRANSPO	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
	ROJECT NA	AME:		I-4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWAY							AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3912	211.8	49	ASTING: 602871.122
DATE STA				12/09/	14	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
DATE COM	MPLETED:			12/09/	14		AET	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
COUNTY:				Ozauke	e	OG QC BY:  C. Wierzcho	wski	HAMMER TYPE:				TREAME			:	N/A
STATION	2309+0	0SB	OFFSET	77'	Lt	DWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SEC	HON:	St	JRFACE	ELEVA	TION:		1
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rocl and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1-	1/2 /1/2 - 7/1/2 - 1/2 /2/1/2 - 2/1/2	12" TOPSOIL  1.0 FINE TO MEDIUM SAND, brow	vn, mo	st, trace gravel, loose							HSA	
SS 1	13	M 6	2-5-3-5 (8)	- 2-												
SS 2	17	M 21	4-6-5-7 (11)	- 4 -		Medium dense				SP						
				- 6 - <u>∑</u>												
SS 3	18	W 19	1-2-2-1 (4)	- 8 <sup>12</sup>		8.0 SILTY FINE SAND, gray, wet, t	race c	ay, very loose		SM						Fines = 67%
	$\perp$			10		10.0										
			1	10	<u>- 1 - 1 - 1</u>	End of Bor	ring at	10.0 ft.				-				1
						WATER LEVEL & CA	_									
			DUNTERED			RILLING: 6.7ft.		CAVE - IN DEPTH AT				8ft.				WET DRY
Ţ v	VATER	LEVE	L AT COMF	PLETIO	N:	NMR	Ē	CAVE - IN DEPTH AFT	TER 0 HO	DUR	<b>S</b> :	NMR				WET DRY
NOTES						esent the approximate boundary; gradu rement Recorded	al trans	sition between in-situ soil layers	rs should b	е ехр	ected.					

0E9 (	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	MP126
HATTMERS	OF TRANSPOR	Mad	ison,	, WI 53704			WISDOT STRUCTURE ID:					AGE NO				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	N YAWD							AET	DRILLING CONTRACTOR PROJECT NO	:		IORTHIN	391	301.	15	ASTING: <b>603081.981</b>
	E START				11/19/	14	CREW CHIEF:	MD	DRILL RIG:			OORDIN	IATE SY	STEM:	•	wccs
DAT	E COMP	LETED:			11/19/	14	OGGED BY:	AET	HOLE SIZE:	4	in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	JNTY:			(	Ozauk	ee	OG QC BY:  C. Wierzcho	wski	HAMMER TYPE:		S	TREAME	BED ELE	VATION	:	NA
STA	TION 2	310+0	0NB	OFFSET	80'	Rt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION: 1/4 1	/4 SECTION	: S	URFACE	ELEVA <sup>*</sup>	TION:		
L 1074 60	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	ical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	13	M 24	2-4-3-5 (7)			3.0								HSA	
	SS 2	10	M 12	1-7-4-6 (11)	- 4 - - 5- - 6 -			ist, so	me sand, trace silt, medium	GP						
DOUNTIES/OZAUKEN/43/123-04-01 - 43 - SILVERSPRING DR TO STH 60/GINT1/224-04-01 OZAUKEE CO.GPU 143 92/1/15	SS 3	24	M 19	2-2-1-3 (3)	- 8 9 10 11 12 -		13.0 FINE TO MEDIUM SAND, gray loose			SM	0.5					
01 - 143 - SILVERSPRING	SS 4	24	M 22	2-2-2-3 (4)	- 14 -		15.0 End of Bor	ing at	15.0 ft.	SP						
1229-04-1										^						
EE/143	7 34	٨Τ٢٥	ENICO	N INITEDES	י רו וריי	10.5		_	N OBSERVATION DAT		NI:	NIN /ID				WFT □
SYOZAUKEE				UNTERED					CAVE IN DEPTH AT COL			NMR				WET  DRY  WET  DRY  DRY
NATES				L AT COMF			NMR resent the approximate boundary; gradua	al trans	CAVE - IN DEPTH AFTER			NMR				DRY 🗌
100/1							resent the approximate boundary; gradul urement Recorded	ui ii di l	muon petween in-situ suii iayers shi	outu DE EX	ocoi <del>c</del> a.					

OED A	SCONSIN 30	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01			во		G II	<b>D</b> :	MP127
ATTRON	OF TRANSPOR	Mad	ison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:					PAGE NO				1 of 1
		OJECT NA	ME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:	T.110		LATITUE				ONGITUDE:
	ADWAY N							AET	DRILLING CONTRACTOR PROJECT	T NO:		NORTHI	391	501.6	56 E	EASTING: <b>603077.26</b>
	E STAR				11/19/	14		MD	DRILL RIG:			COORDI				wccs
DAT	E COMP	LETED:			11/19/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZO	NTAL DA	TUM:	٧	/ERTICAL DATUM:
COL	JNTY:				Ozauk	ee	OG QC BY:  C. Wierzchow	vski	HAMMER TYPE:			STREAM	BED ELE	VATION	۱:	N/
STA	TION 2	312+0	0NB	OFFSET	65'	Rt T	OWNSHIP: RANGE: SECT	TION:	1/4 SECTION:	1/4 1/4 SECTION	ON:	SURFAC	E ELEVA	TION:		
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAMPLE 17FE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ur	cal (	Origin for	OTHORA / SOSII	Strength Op	(tST) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		· I								HS#	A
	SS 1 SS 1A	16	M 26 M 11	3-7-5-7 (12)	- 2 -		FINE TO MEDIUM SAND, brown dense	n, mo	ist, trace silt, medium	SI	•					
	SS 2	14	M 12	3-6-6-11 (12)	- 4 -		SAND, brown, moist, some grave	el, tra	ce silt, medium dense							
					- 6 -					sı	V					
					- 8 -		Loose									
$\left\langle \right\rangle$	SS 3	18	M 14	3-3-6-4 (9)	- 9 -		9.0 SILT, gray, moist, trace fine sand			SI	1.4	1				
					10		End of Borir	ng at	10.0 ft.							
$\vdash$							WATER LEVEL & CAV	/F <sub>-</sub> II	N OBSERVATION D	ΔΤΔ						
$\overline{\Sigma}$	7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ΔΤΕΡ	ENICC	OUNTERED	יוםו וח (	אופ ה		/E-II	CAVE - IN DEPTH AT C		ION:	NMF	?			WET DRY
<u>⊿</u>				L AT COMF			-	125g	CAVE - IN DEPTH AT C			NMR				DRY WET DRY
7							NMR	l tron								DRY
NC							resent the approximate boundary; gradual urement Recorded	ırans	มแบบ มะเพะยก เก-รแน soll layers	STIUUIU DE	zxpecte	u.				

Alec Misc	CONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	): 	MP128
AHTTMERS OF	TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	OWAY N						PRILLING CONTRACTOR:	Τ	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3915	511.4	<b>54</b>	ASTING: 602886.512
	START				12/09/	14	REW CHIEF:	ן כ	DRILL RIG:				OORDIN				wccs
DATE	COMP	LETED:			12/09/	14	OGGED BY:	т [	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	L	og QC BY:  C. Wierzchowski	ci 📗	HAMMER TYPE:			S	TREAME	BED ELE	VATION	1:	NA
STAT	ION 2	312+0	0SB	OFFSET	80'	Lt T	OWNSHIP: RANGE: SECTION:	l:	1/4 SECTION:	1/4 1/4 SEG	CTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Oı	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	6	M 22	3-5-4-5 (9)	- 1 - - 2 -	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	36" TOPSOIL									HSA	A
	SS 2	13	M 11	5-3-3-4 (6)	- 4 -	<u>~</u>	FINE TO MEDIUM SAND, brown, moloose	nois	t to wet, trace gravel,		SP						
					- 6 - - 7 - - 8 -		8.0										
	SS 3	17	W 16	4-3-5-3 (8)	- 9 -		FINE SILTY SAND, gray, wet, trace				SM						
					10		End of Boring a	at 1	0.0 ft.								
							\\\ATED   E\\E\ 0 \\\\\\	16.	ODSEDVATION D	ΛT ^							
$\Box$	147	٨Τ٢٥	-NOC		י רו וביי	10.5	WATER LEVEL & CAVE-	$\neg$			ETIC	NI:	7.04				WET F
Ţ	+			DUNTERED					CAVE IN DEPTH AT				7.8ft.				WET DRY WET
<u> </u>				L AT COMF			NMR	-	CAVE - IN DEPTH AFT				NMR				WET  DRY
NO							resent the approximate boundary; gradual trar urement Recorded	ınsıt	ıorı petween in-situ soll layer	s snould l	ue exp	ected.					

SS 23 M 2-5-3.6   9   100 L   1   1   1   1   1   1   1   1   1	OEP.	SCONSIN 3	WI [	ept.	of Transp	ortati	on	WISDOT PROJEC	T ID:	1229-04	-01					G IE	):	MP129
1.28   1.28	HTWEE	OFTRANSPOR	Mad	ison	, WI 53704	u.  -			ΓURE ID:									1 of 1
AFT				ME:		I-	43			CONSULTANT PROJEC	T NO:		L	ATITUD	E:		Lo	ONGITUDE:
March   Marc	RO	ADWAY N	NAME:					RILLING CONTRACTOR:	AET	DRILLING CONTRACTO	R PROJECT NO:		N	IORTHIN	ig: <b>393</b> (	07.28	37 E	ASTING: <b>602926.10</b>
March   1/28/15   1/28/1	DA <sup>-</sup>	TE STAR	TED:			1/28/	15	REW CHIEF:	MD	DRILL RIG:			C	OORDI				
SS   11 M   4.6-5-11   4   100 M	DA <sup>-</sup>	TE COMP	LETED:				L	OGGED BY:		HOLE SIZE:		4		IORIZON	ITAL DA	TUM:	V	
### 100 Market	CO	UNTY:					L	OG QC BY:		HAMMER TYPE:				TREAME	BED ELE	VATION	: '	N/
SS   11   M   4-6-5-11   4   12-0   2-9   2-9   12-0   2-9   12-0   2-9   12-0   12-	STA	ATION 2	326+6	0SB			Т		GE: SECTION:		l: 1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		
SS   13   M   5.7.4.7   2									,	'								
SS   13   M   5-7-4-7   2   SILTY CLAY, regists brown, moist, trace sand & gravet,   Possible Pill, very stiff	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	and Geological	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   13   M   5-74-7   2									RSE			GW					HSA	
SS   11   M   4-6-5-11   4   2   2.80   CL   2.80   CL   3   3   M   2.5-3-6   9   Sil.Ty CLAY, light brown mottled, moist, trace sand, hard   CL   4.5   CL   4.5   CL   4.5   CL   4.5   CL   4.5   CL   4.5   CAYE - IN DEPTH AT COMPLETION: NMR   CAYE - IN DEPTH AT COMPLETION: NMR   CAYE - IN DEPTH AT EACH OF LOWER SIMP   CAYE - IN DEPTH AT COMPLETION: NMR   CAYE - IN DEPTH AT EACH OF LOWER SIMP   CAYE						1 -		SILTY CLAY, re	ddish brown, moist, t ., very stiff	race sand & gravel,								
SS 21 11 M 4-6-5-11 4 2 2.80  CL 2.80  CL 2.80  CL 4.5  SILTY CLAY, light brown mottled, moist, trace sand, hard  CL 4.5  WATER LEVEL A: CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AS CAVE-IN DEPTH AFTER 0 HOURS: NMR	$\left  \right $		13		5-7-4-7 (11)	- 2 -							3.65	;				
2 II 15 (11) 4  - 6 - 8  - 7 - 8  - 8 - SiLTY CLAY, light brown mottled, moist, trace sand, hard  - 7 - 8  - 8 - SiLTY CLAY, light brown mottled, moist, trace sand, hard  - CL 4.5  - CL 4.5  - CL 4.5  - WATER EVEL & CAVE-IN OBSERVATION DATA  - WATER LEVEL & CAVE-IN OBSERVATION DATA  - WATER LEVEL AT COMPLETION: NMR  - CAVE-IN DEPTH AT COMPLETION: NMR  - CAVE-IN DEPTH ATER O HOURS: NMR  - NOTES: 1) Stratification lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.						- 3 -												
SS 23 M 2-5-3-6 9 SILTY CLAY, light brown mottled, moist, trace sand, hard  CL 4.5  WATER LEVEL & CAVE-IN DESERVATION DATA  WATER LEVEL & CAVE-IN DESTRATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION:	$\bigvee$	SS	11		4-6-5-11	- 4 -							2.80					
SS 23 M 2-5-3-6 9 SILTY CLAY, light brown mottled, moist, trace sand, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$/\!\setminus$	_			(,	_						CL						
SS 23 M 2-5-3-6 9 SILTY CLAY, light brown motitied, moist, trace sand, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 5-												
SS 23 M 2-5-3-6 9						- 6 -												
SS 23 M 2-5-3-6 9	2007					- 7-												
SS 23 M 2-5-3-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETIO	NEE C																	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT	050					8 -			ht brown mottled, mo	ist, trace sand, hard			1					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL A	OIN I TESS																	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT	Š V	SS	23		2-5-3-6	- 0 -						CI	1 5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT CO	2	3	23	19	(8)							OL	4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	N N																	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT CO	- 315,45					10		10.0					1		L			
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETI	2	-		•		10			End of Boring at	10.0 ft.		•	•	•	•			
WATER ENCOUNTERED DURING DRILLING: NE	0.677							WATERIE	EVEL & CAVF-I	N OBSFRVATI	ON DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Net Encentropy is NMR = Net Maccount and in the proximate poundary.	Z Z	Z w	ATER	ENCC	DUNTERED	DURI	NG D			1			DN:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	_												NMR				WET [
	N	OTES: 1							boundary; gradual tran	sition between in-situ s	soil layers shou	ld be ex	pected.					tus.

Author   Control	Jeg .	NSCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	MP130
1.43   1.2815   1.	ARTIMER	OFTRANS	Mad	ison	, WI 53704	u. L												1 of 1
AFT				ME:		I-4	43											
March   Content   Conten	RO	ADWAY N	NAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		N	ORTHIN	G: <b>3932</b>	204.4	35 E	ASTING: <b>602903.716</b>
1/28   1/28	DA	TE STAR	TED:			1/28/	15 C	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:	•	
STATE   Companies   Companie	DA <sup>*</sup>	TE COMP	LETED:			1/28/	15	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	V	
Section	СО	UNTY:					L	OG QC BY:		HAMMER TYPE:				TREAME	ED ELE	VATION	: '	N/
Second Procession   Seco	STA	ATION 2	329+0	0SR			T	OWNSHIP: RANGE: SI	ECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SS   7   M   0-1-1-3   2   2   2   2   2   2   2   2   2						T				'								
SS 7 M 0-1-1-3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)			and Geolo Each Major	ogical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
MEDIUM TO COARSE SAND, brown, moist, some gravel, medium dense  SS 17 M 2-10-8-11 4  8 8 8.0 SILTY CLAY, gray, moist, trace sand, very stiff  SS 16 M 5-10-6-13 9  SILTY CLAY, gray, moist, trace sand, very stiff  CL 3.90  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1.5ft. BZ CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Straffication lines between soil types represent the approximate boundary, gradual transition between in-situ soil layers should be expected.			7			- 2 -	<u> </u>										HSA	
SS 16 M 5-10-6-13 9 SILTY CLAY, gray, moist, trace sand, very stiff  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 1.5ft. ORK'D ORK		SS 2	17			- 4 -		MEDIUM TO COARSE SAND	), brown	, moist, some gravel,								
SS 16 M 5-10-6-13 9	OZAUREE CO. GFO 143 82 1/10					- 7-						SP						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1.5ft.  WATER ENCOUNTERED DURING DRILLING: 1.5ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	143 - SILVERSPRING DR 10 STR 80(GIN 1/1229-04-0	SS 3	16		5-10-6-13 (16)			10.0		,		CL	3.90					
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: 1.5ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPL	-104-01							<u> </u>										
WATER ENCOUNTERED DURING DRILLING: 1.5ft.  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: 1.5ft.  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET LOVE  WET LOVE  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/152							WATER LEVEL & CA	AVE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z	<u>Z</u>   w	ATER	ENC	DUNTERED	DURIN	NG D	RILLING: 1.5ft.	<b>₽</b>	CAVE - IN DEPTH AT	COMPL	ETIC	N:	1.5ft.				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			ATER	LEVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AF	TER 0 H	IOUR	S:	NMR				WET [ DRY [
2) NE = Not Encountered; NMR = No Measurement Recorded	N								dual trans	sition between in-situ soil laye	rs should	be exp	ected.					

0ED (	SCONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP131
HTWEEN	OF TRANSPORT	Mad	ison	, WI 53704		$\perp$	WISDOT STRUCTURE ID:		I a a u a u u = a - a - a				AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N							AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3933	355.7	52	EASTING: <b>602927.797</b>
	E STAR				1/28/	15	REW CHIEF:	MD	DRILL RIG:					NATE SY			wccs
	E COMP	LETED:			1/28/	15		AET	HOLE SIZE:		4	in		ITAL DA			/ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:  C. Wierzcho	wski	HAMMER TYPE:					BED ELE		l:	NA
STA	TION 2	330+5	0SB	OFFSET	100'	Lt T	DWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	JRFACE	ELEVA	TION:		
SAMBLETVBE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	16	M 21	2-5-3-8 (8)	- 1 - - 2 -		12" TOPSOIL  1.0  SILTY CLAY, gray/brown mottle	ed, mo	ist, trace sand, very stiff			3.10				HSA	A
	SS 2	16	M 21	2-5-4-7 (9)	- 4 -						CL	4.0					
					- 6 -												
	SS 3	24	M 22	3-5-4-5 (9)	- 8 - - 9 -		Gray, moist, very stiff	uto 1	40.04		CL	2.75					
					. •		End of Bor	ring at	1υ.υ π.								
$\vdash$							WATER LEVEL & CA	\/F_II	N OBSERVATION F	ΔΤΔ							
$\overline{\nabla}$	, ,,,	ΔΤΕΡ	FNICC	DUNTERED	DIIDIN	וכ טו			CAVE - IN DEPTH AT		FTIC	N.	NMR				WET  DRY
<u>⊿</u>				L AT COMF			NMR		CAVE - IN DEPTH AT				NMR				DRY DRY DRY DRY
_							esent the approximate boundary; gradu	_	1								DRY
Ľ							rement Recorded	u ai l		. o oriouiu	~~ GX						

OF WECONSIN	WI D	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJEC	T ID:	12	229-04-01						G ID	):	MP132
OF TRANSPOR	Mad	ison,	WI 53704			WISDOT STRUCT	URE ID:						AGE NO:				1 of 1
WISDOT PRO		ME:		I	43	ONSULTANT:			T PROJECT NO:				ATITUDE				NGITUDE:
ROADWAY NA	AME:				D	RILLING CONTRACTOR:	AE	T	NTRACTOR PROJE	CT NO:			ORTHIN	3939	03.19	9	STING: <b>602940.85</b> 2
DATE STARTE	ED:			12/02/	14 C	REW CHIEF:	М	D DRILL RIG:				С	OORDIN	IATE SY	STEM:	•	wccs
DATE COMPL	ETED:			12/02/	L	OGGED BY:	AE	HOLE SIZE:			4	in H	ORIZON	TAL DA	TUM:	VE	RTICAL DATUM:
COUNTY:				Ozauk	L	OG QC BY:	C. Wierzchowsl	HAMMER TYPE	PE:				TREAMB	ED ELE	VATION:		N/
STATION 23	336+0	nsr	OFFSET	85'	T	OWNSHIP: RANG			/4 SECTION:	1/4 1/4 SI	ECTION:	SI	JRFACE	ELEVA	TION:		
							,										
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Rock De and Geologica Each Major Unit	Origin for	s		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				+ 1 -		1.0						-				HSA	
SS 1	16	M 19	1-3-2-5 (5)	- 2 -		SILTY CLAY, IIG	ht brown, moist, ve	ry suπ				3.0					
SS 2	8	M 24	2-8-5-11 (13)	- 3 -								3.0					
				- 6 - - 7 -							CL						
SS 3	23	M 20	4-8-6-9 (14)	- 8 - - 9 -		Brown	End of Boring	at 10.0 ft.				2.75					
		_				WATER LE	VEL & CAVE	IN OBSE	RVATION F	)ATA							
$\overline{}$							- 1	III ODOLI	I CV/CIIOI L								
∑ WA	ATER E	ENCO	UNTERED	DURIN	NG DI				IN DEPTH AT		LETIC	N:	NMR				WET [
VA VA			UNTERED AT COMP					CAVE -		COMP			NMR NMR				WET [ DRY [ WET [ DRY [

CHARLET NOW.   CHAR	ALISCONSIN.	WI D	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	<b>)</b> :	MP133
1-3	TOF TRANSPOR	Madi	son,	WI 53704	u. L											1 of 1
AET			ΛE:		I-	43			CONSULTANT PROJECT NO:		L	ATITUDI	E:		LO	ONGITUDE:
Control   Cont	ROADWAY NAM	ME:				С	DRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:	١	IORTHIN	ig: <b>3941</b>	103.16	52 E	ASTING: <b>602930.13</b> 9
COCATITY   COCATION   STREAMSPORT   CONTINUE   COCATION   COCATI	DATE STARTE	D:			1/29/	15	CREW CHIEF:	MD	DRILL RIG:		(	COORDIN	NATE SY	STEM:		wccs
COLAYEY SILT.   COLAYEY SILT	DATE COMPLE	ETED:				L	OGGED BY:		HOLE SIZE:	4		IORIZON	ITAL DA	TUM:	VI	
SS   15   M   1-2-1-2   4   SS   15   M   3-4-3-6   9   M   SS   12   M   SS   12   M   SS   12   M   SS   3-4   SS   SS   12   M   SS   SS   12   M   SS   3-4   SS   SS   SS   SS   SS   SS   SS	COUNTY:					L	.og QC BY:		HAMMER TYPE:			TREAME	BED ELE	VATION		N/
SS   15   M   1-2-1-2   4   - 6	STATION 23	38+00	SB			Т		SECTION:	1/4 SECTION:	1/4 1/4 SECTION	: S	URFACE	ELEVA	TION:		
SS 15 M 1-2-1-2 - 4 - 2 - 36° TOPSOIL  SS 2 15 M 50 1-2-1-2 - 4 - 5- 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6								I.	'							
SS 15 M 1-2-1-2 2 3 CLAYEY SILT, dark gray, moist, medium  0.75	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Ge Each Ma	eological (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)			
SS 2 15 M 1-2-1-2 (3) - 4 - 6 - 6 -		9		0-3-2-4 (5)											HSA	
	SS 2	15		1-2-1-2 (3)			CLAYEY SILT, dark gray,	moist, med	ium		0.75	5				
SS 12 M 3-4-3-6 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA					- 7 -		8.0			CL-MI	-					
WATER LEVEL & CAVE-IN OBSERVATION DATA	SS 3	12					10.0			CL	2.50					
WATER LEVEL & CAVE-IN ORSERVATION DATA																
WILLIAM CONTRACTOR DATA							WATER LEVEL &	CAVE-I	N OBSERVATION D	ATA						
y WATER ENCOUNTERED DURING DRILLING: NE B CAVE - IN DEPTH AT COMPLETION: NMR B	∑ wa⁻	TER E	NCC	UNTERED	DURI	NG D	RILLING: NE		CAVE - IN DEPTH AT	COMPLETIC	N:	NMR				WET DRY
WATER LEVEL AT COMPLETION: NMR	▼ MA.	TER L	EVEI	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AF	TER 0 HOUF	RS:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES: 1)							gradual trans	sition between in-situ soil layer	rs should be ex	pected					

120214   120214	OF WISCON	VSIN. V 30	WI D	ept.	of Transp	ortati	on	WISDOT	PROJEC*	T ID:			1229-04-01				BOF		G II	<b>)</b> :	MP134
Martin   M	ATTACK OF TR	ANSTO	Mad	ison,	, WI 53704				STRUCT	URE ID:											1 of 1
1200214   1200				ME:		I-	43														ONGITUDE:
Value   Valu	ROADW	VAY NA	ME:				D	RILLING CONTRAC	CTOR:		AET	DRILLI	NG CONTRACTOR PRO	JECT NO:				3942		32 E	ASTING: 602949.514
Second	DATE S	TARTE	D:			12/02/	14 C	REW CHIEF:			MD	DRILL	RIG:			C	OORDIN				wccs
SS   16 M   3-9-6-13   9   10-9	DATE C	OMPLE	ETED:				L	OGGED BY:			AET	HOLE	SIZE:		4		IORIZON	ITAL DA	TUM:	V	
## SS   16 M   14-2-6   4   5   16 M   23   17   17   17   17   19   19   19   19	COUNT	Υ:					L	OG QC BY:		C Wier		HAMM	ER TYPE:				TREAME	BED ELE	VATION	l:	NΔ
SS   16 M   1-42-6   4   30   30   30   30   30   30   30	STATIO	N 23	39+7	5SB			T	OWNSHIP:			SECTION:		1/4 SECTION:	1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		107
SS   6   M   0-0-0-0   2   2   2   2   2   2   2   2   2									ı					ı							
SS 16 M 0-0-0-0 2 3 3 SILTY CLAY, reddish brown motiled, moist, trace sand, very stiff  SS 16 M 14-2-6 4 5 SILTY CLAY, reddish brown motiled, moist, trace sand, very stiff  SS 16 M 33 9-6-13 9 SILTY CLAY, reddish brown motiled, moist, trace sand, very stiff  CL  SS 16 M 33-9-6-13 9 SILTY CLAY, reddish brown motiled, moist, trace sand, very stiff  SS 22 M 33-9-6-13 9 SILTY CLAY, reddish brown motiled, moist, trace sand, very stiff  CL  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT CROMPLETION: NMR SITTY OATS () STIFT OATS	SAMPLE TYPE	NOMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				and Ge	eological	Origin	for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders		
SS 22 M 3-9-6-13 9  Brown  SS 22 M 3-9-6-13 9  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETI			6					3.0												HSA	
SS 22 M 3-9-6-13 9 Brown  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER RECOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	S	SS 2	16		1-4-2-6 (6)	- 4 -			LAY, rec	ddish bro	wn mottled,	moist,	trace sand, very st	iff		3.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 7-									CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	22							End (	of Boring at	: 10.0 ff				4.25					
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       ■       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NE       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NE       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DURING DRILLING: NE       NMR       WET DRY ENCOUNTERED DURING DRILLING: NE       WET DRY ENCOUNTERED DRY ENCOU																					
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATI	ER LE	VEL &	CAVE-I	N OE	SERVATION	DATA							
WATER LEVEL AT COMPLETION: NMR  MOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\overline{\mathbb{Z}}$	WA	TER	ENCC	UNTERED	DURI	NG D	RILLING: 1	NE			CA	/E - IN DEPTH A	T COMF	PLETIC	ON:	NMR				WET  DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Ā	WA	TERI	EVE	L AT COMF	PLETIO	N:	NMR				CA	/E - IN DEPTH A	FTER 0	HOUF	RS:	NMR				WET DRY
	NOTE									boundary;	gradual tran	sition b	etween in-situ soil la	yers shou	d be ex	pected.					

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP135
ARTHURS	OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
WIS	DOT PRO	OJECT NA	ME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUDE	E:		L	ONGITUDE:
RO	A YAWDA	NAME:				Di	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	ig: <b>395</b> 8	303.9	21 E	ASTING: 603140.074
DAT	TE STAR	TED:			11/20/	14 CI	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	NATE SY	STEM:		wccs
DAT	TE COMP	LETED:			11/20/	LC	OGGED BY:	AET	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COI	JNTY:				Ozauk	LC	og qc BY: <b>C. Wierzch</b> o		HAMMER TYPE:				TREAME	BED ELE	VATION	:	N/A
STA	TION 2	355+0	NNR	OFFSET	75'	Т	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	JRFACE	ELEVA	TION:		INF
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		1	noist, v	ery stiff							HSA	
	SS 1	12	M 22	2-4-4-4 (8)	- 2 -						CL	2.5					
	SS 2	16	M 18	3-5-4-8 (9)	- 4 -		5.0				01	4.25					
ULCAUREE CO. GPO 143 @Z [7]5					- 6 -		SILTY CLAY, brown, moist, tra	ace san	d & gravel, very stiff		CL						
SOOTHER LAST SECTION OF TO SIT ORIGINALIZE SECTION OF TO SIT ORIGI	SS 3	24	M 19	5-9-7-11 (16)	- 9 -		10.0					4.25					
<u>f</u>					10		End of Bo	oring at	10.0 ft.								
1229-0							WATER LEVEL & CA	\/F_II	N OBSERVATION D	ΔΤΔ							
	7 \_\_\	ATFR	FNCC	OUNTERED	DI IDIN	וט טו			CAVE - IN DEPTH AT		I FTIC	N.	NMR				WET DRY
				L AT COMF			NMR	1135-71	CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
N/	·						resent the approximate boundary; gradu	ual tran									DKY [
							urement Recorded		Som Son in Situ Son layer		~ ~ C C A						

OF WISC	CONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PR	OJECT ID:		1229-0	04-01					RING	G IE	<b>)</b> :	MP136
HATTER OF	TRANSPOR	Mad	ison	sman віў , WI 53704				RUCTURE ID:							AGE NO:				1 of 1
		JECT NA	ME:		I-	43	ONSULTANT:			CONSULTANT PROJ					ATITUDE				ONGITUDE:
ROAL	DWAY N	AME:				С	RILLING CONTRACTO	R:	AET	DRILLING CONTRAC	TOR PROJEC	T NO:		N	ORTHIN	G: <b>395</b>	854.0	01 E	ASTING: 603164.896
DATE	START	ED:			11/20/	14	REW CHIEF:		MD	DRILL RIG:				С	OORDIN	IATE SY	STEM:		wccs
DATE	COMP	ETED:			11/20/	L	OGGED BY:		AET	HOLE SIZE:			4	in H	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	L	OG QC BY:	C. Wier	zchowski	HAMMER TYPE:					ΓREAMB	ED ELE	VATION	:	N/
STAT	ION 2	355+5	0NB	OFFSET	100'	Т	OWNSHIP:	RANGE:	SECTION:	1/4 SECT	ION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Ge	Rock Des eological ( ajor Unit / (	cription Origin for Comments			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	19	M 18	1-3-2-5 (5)				IL										HSA	
	SS 2	11	M 23	1-4-3-5 (7)	- 4 -			f, reddish bro	wn, moist, ti	ace sand & grave	l, very			2.5					
07-101-101-101-101-101-101-101-101-101-1					- 6 -								CL						
	SS 3	24	M 17	3-8-6-11 (14)	- 9 -		Brown, hard							4.5					
					10			End	of Boring at	10.0 ft.									
							\\/\\\	)   E\/E  º	. CA\/= !!	N OBSERVA	דוטאי די	ΔΤΛ							
$\nabla$	\\\	ATED	ENICC	DUNTERED	ייםווח ו	/IC D			CAVE-II	CAVE - IN DE			ETIO	NI:	NMR				WET [
<b>1</b>	+			L AT COMF			NMR		■   IRES	CAVE - IN DE					NMR				WET DRY DRY DRY DRY
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							resent the approxim	nata houndar :	aradual trans						NIVIK				DRY
							resent the approxim urement Recorded		yı avuai II ali	muon delween in-Sil	u suii iayers	s si iouid i	oe exp	oudu.					

MISCONSIN 35	WI E	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	MP137
OFTRANSO	Mad	ison	WI 53704	, ,		WISDOT STRUCTURE ID:					PAGE N				1 of '
WISDOT PR		ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITU				NGITUDE:
ROADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTH	39	5973.9	2 EAS	STING: 603139.46
DATE STAR				11/20/	14	REW CHIEF:	MD	DRILL RIG:				INATE S			wccs
DATE COMP	PLETED:			11/20/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZO	NTAL DA	TUM:	VEF	RTICAL DATUM:
COUNTY:			(	Ozauk	ee	OG QC BY:  C. Wierzc	howski	HAMMER TYPE:			STREAM	MBED ELE	VATION:		N/
STATION 2	356+7	5NB	OFFSET	75'	Rt	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SURFAC	CE ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Ro and Geol Each Major	logical (	Origin for		Strength Qp	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	11	M 20	1-3-3-6 (6)	- 1 -		12" TOPSOIL  1.0  SILTY CLAY, reddish brown	, moist, tr	ace sand, very stiff		2.7	75		H	HSA	
SS 2	14	M 18	2-9-6-12 (15)	- 4 -		Brown, hard				4.	5				
				- 6 -					C	iL					
SS 3	24	M 18	4-10-7-11 (17)	- 9 -		10.0				4.	1				
				10		End of E	Boring at	10.0 ft.							
						\\\ATED   E\\EL \\ C	`^\/E_II		Λ.Τ.Λ						
						WAIFRIEVE		$(I \cup BSERVALIONLY)$	14 1 4						
\( 1\lambda/\)	ΔΤΕΡΙ	FNICC	) INTEDED	DIIDI	NG D			OBSERVATION D		LIUNi.	VIVA				WET [
			OUNTERED				/AV L-11	CAVE - IN DEPTH AT	COMPLE		NMF				WET [ DRY [ WET [ DRY [

MISCONSIN.	WI E	ept.	of Transp sman Blvo	ortation	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID	):	MP138
OF TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR:  AET		CT NO:		IORTHIN	3961	78.13	1 E/	ASTING: 602917.738
DATE STAR				12/02/	14	REW CHIEF:				OORDIN				wccs
DATE COMP	PLETED:			12/02/	14	OGGED BY: AET		4	in	IORIZON	TAL DAT	TUM:	VE	ERTICAL DATUM:
COUNTY:				Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAMB	ED ELE	VATION:	•	N/
STATION	2358+7	5SB	OFFSET	100'	Lt	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	s	URFACE	ELEVAT	ΓΙΟN:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	10	M 23	2-4-3-5 (7)	- 1 -		36" TOPSOIL							HSA	
SS 2	15	M 18	2-6-3-9 (9)	- 4 -		3.0 SILTY CLAY, brown, moist, trace sa	nd & gravel, hard		4.5					
				- 6 - - 7 -				CL						
SS 3	24	M 16	5-12-9-15 (21)	- 9 -		10.0			4.5					
				10		End of Boring a	10.0 ft.							
						WATER LEVEL & CAVE-	N ODSEDVATION D	ΛΤΛ						
						WAIEKIEVEL&CAVE-	IN CHOCKVALION D	AIA						
	/ATCD !	- NICC	ע וגודרטיי	DUDI	10.5				NI.	NIN 4D				WFT F
			OUNTERED				CAVE - IN DEPTH AT C	COMPLETIO		NMR NMR				WET [ DRY [ WET [ DRY [

of A	3502	ept. Kin	of Transp sman Blv	oortatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	•	MP139
MISDOT D	Mad ROJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	10	ONSULTANT PROJECT NO:			GE NO:			LON	1 of '
ROADWAY		WE:		I-	13	ONSULTANT: RILLING CONTRACTOR:					ORTHIN				GITUDE: FING:
						AE	:T	RILLING CONTRACTOR PROJECT NO:				3963	03.10	I EAS	602909.29
DATE STAP				12/02/	14	REW CHIEF:  MI  DGGED BY:	D	RILL RIG: OLE SIZE:			OORDIN ORIZON			VED	WCC:
COUNTY:	FLETED.			12/02/	14	AE OG QC BY:	:T	AMMER TYPE:	4	in			/ATION:	VER	TICAL DATOW.
STATION			OFFSET	Ozauk	e	C. Wierzchowsk  DWNSHIP: RANGE: SECTION	ki 📗	1/4 SECTION: 1/4 1/4 SEC	TION:		IRFACE				N/
,,,,,,	2360+0 	0SB	0.1021	108'	Lt										
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	I Ori	iption gin for mments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	13	M 24	1-3-3-4 (6)	- 2 -		36" TOPSOIL							F	ISA	
SS 2	24	M 16	1-7-3-11 (10)	3 -		3.0 SILTY CLAY, reddish brown, moist,	, trac	e sand, hard		4.5					
				- 6 -					CL						
SS 3	24	M 18	5-14-10-1 (24)			Brown  10.0  Find of Boring	at 10	.O.#		4.5					
						End of Boring a	aι 10								
						WATER LEVEL & CAVE	-IŅ	OBSERVATION DATA							
,	/ATER	ENCO	DUNTERED	DURIN	IG DI	RILLING: NE	<b>₫</b> (	CAVE - IN DEPTH AT COMPLE	ETIO	N:	NMR				WET [ DRY [
<ul><li>✓ v</li><li>✓ v</li></ul>	V/ (   L   ( )														WET [ DRY [

March   Marc	MISCO	NSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	): 	MP140
Martin   M	THE OFT	RANSO	Mad	lison	, WI 53704	۵. ا												1 of 1
120214   1				ME:		I-	43				OT 1:-							
12/02/14   00000000000000000000000000000000000								Al	ΕT		CT NO:				3964		29	ASTING: 602916.847
Country   Coun						12/02/	14	N	ΙD									wccs
Complete		LETED:			12/02/	14	Al	ΕT			4	in					ERTICAL DATUM:	
SS   17 M   1-6-3-9   2   12 TOPSOIL   1   10 M   1-6-3-9   2   13 TOPSOIL   1   15 M   1-6-3-9   2   15 TOPSOIL   1   15 TOP						Ozauk	ee	C. Wierzchows	ski								l:	NA
SS   17 M	STATIO	ON <b>2</b>	361+2	5SB	OFFSET	100'	Lt T	OWNSHIP: RANGE: SECTIO	ON:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		
SS   17   M   1-6-3-9   2	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologica	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
Notes: 1) Service for the property of the pr						- 1-	710 1 71	41.0	st, tr	ace sand, hard			-				HSA	A
SS   24   M   3-9-6-13   4			17		1-6-3-9 (9)								4.25					
SS 23 M 4-9-7-11 9		SS 2	24		3-9-6-13 (15)	- 4 -							4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 6 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			23					10.0	ı at	10.0 ft			4.25					
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WE CAVE - IN DEPTH AT COMPLETION: NMR  WE DRY  VATER LEVEL AT COMPLETION: NMR  WE NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								End of Bolling	, ai									
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE	E-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\overline{\underline{\nabla}}$	W	ATER	ENC	DUNTERED	DURIN	NG D					ETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		W	ATER	LEVE	L AT COMF	PLETIO	N:		_	CAVE - IN DEPTH AF	TER 0 H	IOUR	:S:	NMR				WET DRY
2) NE = Not Encountered; NMR = No Measurement Recorded									rans	ition between in-situ soil laye	rs should	be exp	pected.					

. OEP.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				OR	INC	G IE	):	MP141
MATHER	OFTRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTURE ID						SE NO:				1 of 1
		OJECT NA	AME:		I	43	ONSULTANT:		CONSULTANT PROJECT NO:				TTUDE:				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:				3977	28.90	)9 E	ASTING: <b>603133.20</b> 9
	TE STAR				11/20/	14	REW CHIEF:	MD	DRILL RIG:				ORDINA				wccs
	TE COMP	LETED:			11/20/	14	OGGED BY:	AET	HOLE SIZE:		4 in		RIZONT				ERTICAL DATUM:
	JNTY:				Ozauk	e		/ierzchowski	HAMMER TYPE:				REAMBE			:	N/
STA	TION <b>2</b>	374+2	5NB	OFFSET	75'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SUF	RFACE E	LEVAT	TION:		
i i	SAMPLE 1 YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Each	bil / Rock Des I Geological ( Major Unit / (	Origin for		USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	23	M 20	2-6-4-8 (10)	- 1 -	10 24 10 10 10 10 10 10 10 10 10 10 10 10 10	12" TOPSOIL  1.0  SILTY CLAY, brown, r	moist, trace san	d, hard			·.5				HSA	
	SS 2	21	M 19	5-6-6-8 (12)	- 4 -		Stiff				2	2.0					
OU CENUREE CO. GFO 143 GZ [7] D					- 6 -		Trace gravel				CL						
SOURIES/UZAURECHASILZB-0-UT-1-3 - SILVENSFRING UR TO SITI GOGNI II ZZB-0-UT UZAUREC UZISTA 1+3 9ZITIS	SS 3	24	M 19	2-7-5-9 (12)	- 9 -		10.0		40.05		2	2.0					
104					. •		E	End of Boring at	1υ.υ π.								
N 223-0							WATER I EVE	& C.A\/F_I	N OBSERVATION D	ΑΤΑ							
Z   Per	7 W	ATFR	FNCC	UNTERED	DURIN	IG DI		L & CAVE-II	CAVE - IN DEPTH AT		TION:	N	IMR				WET DRY
				L AT COMF			NMR		CAVE - IN DEPTH AF				MR				DRY C WET C DRY C
N/								arv: gradual trans	sition between in-situ soil laye				1411 (				DRY [
3 (*)							urement Recorded	, g. addal ii dili		. J S. IOGIG DI	- 27,000						

Not Not I	3502	)ept. 2 Kin	of Transp sman Blv	portatio d.	on 📙	WISDOT PROJECT ID:	1229-04-01				RINC	G ID	MP1
WISDOT PR	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCULTANT PROJECTIVE			GE NO:			1 0
		ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			TITUDE			LONGITUDE:
ROADWAY						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	CT NO:		ORTHING	3978	78.908	EASTING: 603132.6
DATE STAR				11/20/	14	REW CHIEF:	DRILL RIG:			OORDIN			wc
DATE COMP	PLETED:			11/20/	14	OGGED BY:	HOLE SIZE:	4 ir	า 📗	ORIZON			VERTICAL DATUM:
COUNTY: STATION			OFFSET	Ozauk	ee	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		REAMBE			
2 IATION	2375+7	5NB	OFFSET	75'	Rt '	OWNSHIP. RANGE. SECTION.	1/4 SECTION.	1/4 1/4 SECTION.	150	IRFACE	ELEVAI	ION.	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Sterigal Gp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes Notes
SS 1	12	M 32	2-4-3-5 (7)	- 1 -		36" TOPSOIL						F	SA
ss		M	2-4-4-8	3 -		3.0  SILTY CLAY, dark reddish brown, mo	ist, trace sand & gravel,						
2	10	34	(8)	5-				1	.25				
				- 6 -				CL					
SS 3	24	M 19	4-8-5-10 (13)	- 9 -		Gray/brown, trace gravel, very stiff		2	4.0				
				10		End of Boring at	10.0 ft.						
						WATER LEVEL & CAVE-II	N OBSERVATION D	ΑΤΑ					
$\nabla$ w	/ATFR	FNCC	DUNTERE	DURIN	IG D		CAVE - IN DEPTH AT		. ,	NMR			WE DR
			L AT COM			NMR I	CAVE - IN DEPTH AFT			NMR			DR WE DR
						resent the approximate boundary; gradual trans				******			DR

MISCONS	W. 30.	WI D	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>D</b> :	MP143
OFTRA	A. C.	Madi	son,	WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		CT NAM	ИЕ:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADW	AY NAN	ΛE:					RILLING CONTRACTOR:	ΞT	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: <b>397</b> 9	903.2	44 E	ASTING: <b>602946.586</b>
DATE ST	TARTED	):			12/02/	14 C	REW CHIEF:	TD	DRILL RIG:			С	OORDIN				WCC
DATE CO	OMPLE1	TED:			12/02/	L	OGGED BY:		HOLE SIZE:		1	in H	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUNTY	<b>/</b> :				Ozauk	L	OG QC BY:		HAMMER TYPE:				TREAMB	BED ELE	VATION	l:	N/
STATION	٧ م	70 : 00	CD.	OFFSET		T	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		IN/
	231	76+00	ЭВ		65'	Lt											
SAMPLE TYPE NI MRER	PECOVERY (in)	RECOVERT (III) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						717 7 77 7 77	12" TOPSOIL									HSA	
					1 -		1.0 SILTY CLAY, reddish brown, moist	t, lit	tle sand, medium								
∭ s		16	M	1-2-2-2	- 2 -						CL	1.0					
	1		25	(4)													
+					3 -		3.0 FINE TO MEDIUM SAND, light brown loose	own	, moist to wet, trace silt,			-					
S	S 2	17	И-W 15	1-5-3-9 (8)													
					— 5 <u>p</u>												
					- 6 -						SP						
					- 7 -												
					8 -		Medium dense										
S	S 3	21	W 17	4-7-7-8 (14)	- 9 -												
					10		10.0 End of Boring	- O+	10 0 ft								
							End of Boring	at	IU.U IL.								
							WATER LEVEL & CAVE	- 14	I OBSEDI/ATION D	\							
$\overline{\Box}$	1010-		NOC	LINITEDES	D. 15.	10.5						NA I -	E 40				WET [
V				UNTERED				<u></u>	CAVE - IN DEPTH AT				5.1ft.				WET [ DRY [ WET [
				AT COMF				_	CAVE - IN DEPTH AF				NMR				WET [ DRY [
VOTE							resent the approximate boundary; gradual tra urement Recorded	rans	ition between in-situ soil layei	rs should i	be exp	ected.					

MISCON	VSIN.	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF	RIN	G II	<b>)</b> :	MP144
THE OF THE	ANSO	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						GE NO:				1 of 1
		JECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				TITUDE				ONGITUDE:
ROADV	VAY NA	AME:					ORILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NO	RTHING	₃: 3980	03.9	07	ASTING: <b>603132.228</b>
DATE S					11/20/	14	CREW CHIEF:	MD	DRILL RIG:				ORDIN				wccs
DATE C	OMPL	ETED:			11/20/	14	OGGED BY:	<b>AET</b>	HOLE SIZE:		4 in		RIZON	ΓAL DA <sup>-</sup>	TUM:	V	ERTICAL DATUM:
COUNT	Y:				Ozauk	L	OG QC BY:  C. Wierzchow	vski	HAMMER TYPE:			STF	REAMB	ED ELE	VATION	l:	N/
STATIC	N 23	377+0	NB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SECT	ΓΙΟN:	1/4 SECTION:	1/4 1/4 SECT	ON:	SUI	RFACE	ELEVA	TION:		
SAMPLE TYPE	NOMBEK	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ur	cal (	Origin for		Strenath Op	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -		1.0 SILTY CLAY, brown, moist, trace	e san	d, very stiff							HSA	A
	SS 1	16	M 18	2-6-5-8 (11)	- 2 -						4	.0					
\$	SS 2	22	M 18	4-9-5-11 (14)	- 4 -						2.	75					
					- 6 -					C	EL .						
	6S 3	24	M 21	3-8-6-10 (14)	- 8 -		Gray/brown				3	.2					
					10	.,_/_	End of Borir	ng at	10.0 ft.	·							
_							WATER LEVEL & CAV										=
$\frac{\nabla}{}$				DUNTERED			RILLING: NE	<u> </u>	CAVE - IN DEPTH AT				MR				WET [ DRY [
$ar{ar{A}}$				L AT COMF			NMR	Ē	CAVE - IN DEPTH AF				IMR				WET [ DRY [
NOT							resent the approximate boundary; gradual urement Recorded	l trans	sition between in-situ soil layei	rs should be	expec	ed.					

OFF NOIL	3502	ept. Kin	of Transp sman Blv	oortatio d.	n _	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP145
WISDOT PF	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			LONG	1 of 1
ROADWAY		uvi⊏.		J-4	I3	UNSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			ORTHIN			EASTI	
						AET				OORDIN	3980	03.24	4 EASTI	602946.2
DATE STAR				12/02/1	4	REW CHIEF:  MD DGGED BY:	DRILL RIG: HOLE SIZE:			ORIZON			VEDTI	CAL DATUM:
COUNTY:	FLETED.			12/02/1	4	AET OG QC BY:	HAMMER TYPE:	4	in			VATION:	VERTI	CAL DATOW.
STATION			OFFSET	Ozauke	e	C. Wierzchowski DWNSHIP: RANGE: SECTION:		SECTION:		JRFACE				N/
	2377+0	0SB	0.1021	65'	Lt		W. (220.101).	020710111	"					
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1 -	<u>x 1, x 1,</u>	12" TOPSOIL  1.0  SILTY CLAY, reddish brown, moist, tr	ace sand, very stiff					ŀ	ISA	
SS 1	14	M 12	1-4-1-4 (5)	- 2 -				CL	3.7					
SS 2	24	M 18	1-7-4-10 (11)	- 4 -		3.0 CLAYEY SILT, brown, moist, trace sa	nd, very stiff		3.5					
				- 6 -				CL-ML						
SS 3	23	M 19	4-8-7-11 (15)	8 -		8.0 SILTY CLAY, gray, moist, trace sand,		CL	3.8					
						End of Boring at	10.0 π.							
						WATER LEVEL & CAVE-II	OBSERVATION DATA	\						
√ 1	ATER I	ENCC	DUNTERED	DURIN	IG DE	RILLING: NE	CAVE - IN DEPTH AT COM	PLETIO	N:	NMR				WET [ DRY [ WET [ DRY [
<u>√</u> w				PLETIO		NMR	CAVE - IN DEPTH AFTER (			NMR				

Mad DJECT NA AME: TED: LETED: 387+0	ison, ME: DNB	offset	4	14 CF	WISDOT STRUCTURE ID:  DISSULTANT:  RILLING CONTRACTOR:  REW CHIEF:  MD  GGED BY:  AET	CONSULTANT PROJECT NO:  DRILLING CONTRACTOR PROJECT NO  DRILL RIG:  HOLE SIZE:	):	L	AGE NO: ATITUDE ORTHIN	:: G: <b>3989</b>	98.16	F	1 of 1 DINGITUDE: SSTING: 603171.309
AME: TED: LETED:	ONB	OFFSET	11/20/ 11/20/ Ozauke	14 CF	RILLING CONTRACTOR:  REW CHIEF:  MD  GGED BY:  AET	DRILLING CONTRACTOR PROJECT NO	):	N	ORTHIN	G: <b>3989</b>		F	ASTING:
TED: LETED:		OFFSET	11/20/ <sup>2</sup> Ozauke	14 CF	REW CHIEF: MD	DRILL RIG:	<i>.</i> .			3989		1   =	603171.30
387+0		OFFSET	11/20/ <sup>2</sup> Ozauke	14 LC 14 LC	GGED BY:			10	OORDIN		STEM:		
387+0		OFFSET	Ozauk	14 LC	AET				ORIZON			1/5	WCC:
		OFFSET		<b>96</b>		HAMMER TYPE:	4	in			VATION:		INTIOAL DATOWI.
			100'	D#	C. Wierzchowski  WNSHIP: RANGE: SECTION:		/4 SECTION		JRFACE				N/
ECOVERY (in) (RQD)	<u>r</u> e			RU									
2	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
			_ 1 -		36" TOPSOIL							HSA	
12	M 17	2-5-4-6 (9)	3 -	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		moist, loose							
15	M 32	3-3-3-3 (6)	- 4 -										
			- 6 -				SC						
			8 -			d, very stiff							
24	M 17	3-8-5-10 (13)	9 -		10.0		CL	4.0					
			10			10.0 ft.							
					WATER   FVFI & CAVF-I	N OBSERVATION DAT	Α						
ATER I	ENCC	UNTERE	D DURIN	IG DF		I		DN:	NMR				WET [ DRY [
													WET [ DRY [
4	15  24  TER E TER L Stratific	15 M 32  24 M 17  TER ENCO	15 M 3-3-3-3 (6)  24 M 3-8-5-10 (13)  TER ENCOUNTEREI  TER LEVEL AT COM  Stratification lines between	15 M 3-3-3-3 - 4 - 5 - 5 - 6 - 7 - 7 - 8 - 8 - 10 (13) - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10	12 M 2-5-4-6 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	12 M 2-5-4-6 (9) 3 3.0 CLAYEY SAND, dark reddish brown,  15 M 32 3-3-3 4 6 7 7 8 8 8.0 SILTY CLAY, brown, moist, trace san  24 M 3-8-5-10 9 10.0 End of Boring at  WATER LEVEL & CAVE-II  TER ENCOUNTERED DURING DRILLING: NE	12 M 2-5-4-6 2 3.0  CLAYEY SAND, dark reddish brown, moist, loose  15 M 3-3-3-3 (6) 5 - 4	12 M 2-5-4-6 (9) 3 3 3.0 CLAYEY SAND, dark reddish brown, moist, loose  15 M 3-3-3-3 (6) 5 5 5 SC  - 6 - 7 - 7 8 8 SILTY CLAY, brown, moist, trace sand, very stiff  24 M 3-8-5-10 9 - End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  TER ENCOUNTERED DURING DRILLING: NE GAYE - IN DEPTH AT COMPLETIC  TER LEVEL AT COMPLETION: NMR GAYE - IN DEPTH AT COMPLETIC  TER LEVEL AT COMPLETION: NMR GAYE - IN DEPTH AFTER 0 HOUE  Stratification lines between soil types represent the approximate boundary; gradual transition between insitu soil layers should be expressed.	12 M 2-5-4-6 2 3-3-3-3 3 CLAYEY SAND, dark reddish brown, moist, loose  15 M 32 3-3-3-3 4 5-10 5 SiLTY CLAY, brown, moist, trace sand, very sliff  24 M 3-8-5-10 9 SiLTY CLAY, brown, moist, trace sand, very sliff  CL 4.0  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION:  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION:  STratification inters between soil types represent the approximate boundary; gradual transition between in-situs oil lypers should be expected.	12 M 2-54-6 2 3.0 CLAYEY SAND, dark reddish brown, moist, loose  15 M 3-3-3-3 4 5 SC  16 SC  8 SC  8 SILTY CLAY, brown, moist, trace sand, very stiff  24 M 3-8-5-10 9 CL 4.0  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  TER RECOUNTERED DURING DRILLING: NE BZ CAVE-IN DEPTH AT COMPLETION: NMR  STRETIR LEVEL AT COMPLETION: NMR NEW STRETIR DEPTH AT COMPLETION: NMR  STRETIR LEVEL AT COMPLETION: NMR NMR	12 M 2-5-4-6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 M 2-5-4-6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12 M 2-5-4-6 2 2 3 3 CLAYEY SAND, dark reddish brown, moist, loose  15 M 3-3-3-3 - 4

Wisconsin 3	WI D	ept.	of Transp sman Blvo	ortation	on	WISDOT PROJECT ID:	1229-04-01			BOF	RIN	G ID	:	MP147
OF TRANSPOR	Madi	son,	WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PROJE		ΛE:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				NGITUDE:
ROADWAY NAM						RILLING CONTRACTOR:  AET		CT NO:			3990	06.57	<b>5</b>   EA	STING: <b>602960.46</b>
DATE STARTED				12/02/	14	REW CHIEF:				OORDIN				WCC
DATE COMPLE	TED:			12/02/	14	OGGED BY: AET		4	in	ORIZON'			VE	RTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY: <b>C. Wierzchowsk</b>				TREAMB				N/
STATION 238	87+00	SB	OFFSET	65'	Lt	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	SI	JRFACE	ELEVA	ΓΙΟN:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1 -		12" TOPSOIL  1.0  SILTY CLAY, reddish brown, moist,	race sand, very stiff					I	-ISA	
SS 1	15	M 20	3-4-2-4 (6)	- 2 -					2.6					
SS 2	13	M 29	3-5-3-8 (8)	- 4 -					2.5					
				- 6 -				CL						
SS 3	24	M 19	4-8-6-11 (14)	- 9 -		Brown  10.0  End of Posing o	10.0 ft		3.5					
				•		End of Boring a	ιυ.υ π.							
						WATER LEVEL & CAVE-	N OBSERVATION D	ATA						
						**/ \: LL V LL U U U/\V L-								
√ wa	TFR F	NCO	UNTERED	DURIN	NG D			COMPLETION	N.	NMR				WET [
			UNTERED				CAVE - IN DEPTH AT			NMR NMR				WET [ DRY [ WET [ DRY [

OED AIR	CONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP148
MATTHERS	FTRANSPOR	Mad	ison	, WI 53704	J.		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		DJECT NA	ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	DWAY N							AET	DRILLING CONTRACTOR PROJEC	T NO:			ORTHIN	3990		51 E	ASTING: <b>603151.947</b>
	E START				11/20/	14		MD	DRILL RIG:					IATE SY			wccs
DAT	E COMP	LETED:			11/20/	14	OGGED BY:	AET	HOLE SIZE:		4 i		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COU	INTY:				Ozauk	ee	og QC BY: <b>C. Wierzchov</b>	vski	HAMMER TYPE:			S	REAMB	ED ELE	VATION	l:	NA
STA	TION 2	388+0	0NB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SECT	ΓΙΟN:	1/4 SECTION:	1/4 1/4 SECT	ION:	SI	JRFACE	ELEVA	TION:		
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major Ur	cal (	Origin for		USCS/AASHIO	Strength Up (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	9	M 27	2-3-2-3 (5)	- 1 -		36" TOPSOIL									HSA	
	SS 2	13	M 26	1-3-3-5 (6)	- 4 -		3.0 SILTY CLAY, brown, moist, trace	e orga	anics, little sand, stiff			1.0					
					- 6 -		8.0			C	iL .						
	SS 3	19	M 14	2-5-6-8 (11)	- 9 -		SILTY FINE SAND, brown, mois			s	М						
							End of Borii	ny at	IU.U IL.								
							WATER LEVEL & CAV	/E-II	N OBSERVATION DA	ATA							
$\nabla$	w	ATER	ENCC	UNTERED	DURIN	NG DI			CAVE - IN DEPTH AT O		ΓΙΟΝ	l:	NMR				WET   DRY
<u></u>	_			L AT COMF			NMR		CAVE - IN DEPTH AFT				NMR				WET DRY
_	TES: 1	) Stratifi	cation	lines between	soil type	es repr	resent the approximate boundary; gradua	l trans									5
L							urement Recorded		,								

MISCON	usw.	WI E	ept.	of Transp sman Blv	ortati	on	WISD	OT PROJE	ECT ID:			1229-04-01					RIN	G II	<b>)</b> :	MP149
ATT MENT OF TR	MESTO	Mad	ison,	, WI 53704				OT STRU	CTURE ID:							AGE NO				1 of 1
		JECT NA	ME:		I-	43	CONSULTANT:				СО	NSULTANT PROJECT NO:			L	ATITUDI	E:		LC	ONGITUDE:
ROADW	VAY NA	ME:				С	RILLING CONTR	RACTOR:		AE1	<b>T</b> DR	ILLING CONTRACTOR PROJ	ECT NO:		N	IORTHIN	ig: <b>399</b> 1	106.9	79 E	ASTING: <b>602966.1</b> 1
DATE S	TARTE	:D:			12/01/	14	CREW CHIEF:			ME	) DR	ILL RIG:			C	OORDIN	NATE SY	STEM:		wccs
DATE C	OMPLE	ETED:			12/01/	L	OGGED BY:			AE1	НО	DLE SIZE:		4	in H	IORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COUNT	Y:				Ozauk	L	OG QC BY:		C. Wie	erzchowsk	HA	MMER TYPE:				TREAME	BED ELE	VATION	l:	N/
STATIO	N 23	88+0	nsr	OFFSET	65'	Т	OWNSHIP:	RAN	NGE:	SECTION:	:	1/4 SECTION:	1/4 1/4 5	SECTION	: S	URFACE	ELEVA	TION:		10
	Ī	00-0																		
SAMPLE TYPE	NOMBEK	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				and (	⊢ Rock De Geological ∕lajor Unit /	Orig	gin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	16	M 21	1-4-3-4 (7)			i,	PSOIL											HSA	
5	SS 2	16	M 23	2-4-2-6 (6)	- 4 -			CLAY, I	brown, m	oist, trace sa	and, v	ery stiff			2.75					
					- 6 - - 7 -									CL						
\[ \frac{\overline{\sqrt{2}}}{\overline{\sqrt{2}}}\] NOTE:	SS 3	24	M 21	4-8-7-10 (15)	- 9 -		10.0								3.5					
					10				En	d of Boring a	at 10.0	0 ft.								
							\Λ/Δ	TFRI	FVFI	& CAVF-	IN C	DBSERVATION I	ΠΑΤΔ							
$\nabla$	\/\A	TFP	=NCC	OUNTERED	DI IDI	NG D		NE	V	& CAVE-		CAVE - IN DEPTH AT		ol Etic	N.	NMR				WET DRY
<u> </u>				L AT COMF			NMR	141				CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
NOT!								rovimot	e houndar	ov: aredual trai		n between in-situ soil laye								DRY
11016							urement Reco		o pouriudi,	,, graduai liäl	ioiliUl	. Dolwoon iir-silu soii layl	oro oriuul	u ne ex	JOUI <del>C</del> U.					

₩. 418	CONSIN.	WI [	Dept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF		G IE	):	MP150
HTMERS	FTRANSTO	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
		OJECT NA	ME:		I-	13	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	DWAY N						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJE	ECT NO:		IORTHIN	4018	87.4	32 E	ASTING: 603382.311
	E STAR				12/03/	14	REW CHIEF: MD	DRILL RIG:			OORDIN				wccs
		LETED:			12/03/	14	OGGED BY:	HOLE SIZE:		in	IORIZON				ERTICAL DATUM:
	NTY:				Ozauk	e	OG QC BY:  C. Wierzchowski	HAMMER TYPE:			TREAME			:	NA
STA	10N <b>2</b>	416+0	0NB	OFFSET	75'	Rt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION	:  S	URFACE	ELEVA	TION:		
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
M	SS	14	M	1-3-2-11	- 1 -		1.7  MEDIUM TO COARSE SAND, brown silt, loose	moist, some gravel, trace						HSA	
	1 SS 1A		16 M 6	(5)	- 3 -		Moist to wet, medium dense								
	SS 2	18	M 8	4-11-8-11 (19)	- 4 - - <u>\$</u>				SP						
					- 6 - - 7 -										
. 1					- 8 -		8.0 FINE TO MEDIUM SAND, light brown	, wet, little clay, trace silt,							
	SS 3	15	W 18	4-7-4-9 (11)	- 9 -		medium dense		SP						
					10		10.0 End of Boring at	10.0 ft.							
							Life of boiling at								
							WATER LEVEL & CAVE-II	N OBSERVATION [	DATA						
$\overline{\mathbb{Z}}$	W	ATER	ENC	DUNTERED	DURIN	IG DI		CAVE - IN DEPTH AT		DN:	7.8ft.				WET DRY
4		ATER	LEVE	L AT COMP	PLETIO	N:	NMR	CAVE - IN DEPTH AF	TER 0 HOUF	RS:	NMR				WET DRY
_	TES: 1						resent the approximate boundary; gradual trans	ition between in-situ soil laye	ers should be ex	pected.					
	2	2) NE = I	Not En	countered; NN	ΛR = No	Meası	urement Recorded								

	Mad JECT NA AME: ED:	ison ME:		12/03/1 12/03/1 12/03/1 Ozauke 75' I	13 DR CR 14 LO 14 LO 10 TO 10	Soil / Roo and Geolo	ECTION:		T NO:	CTION:	N C C III	OORDIN ORIZON TREAMB URFACE	G: 4021 IATE SYS TAL DAT	TUM: VATION:	S1 VE	1 of 1 ONGITUDE: ASTING: 603403.153 WCCS ERTICAL DATUM:
ROADWAY NAI DATE STARTE DATE COMPLE COUNTY: STATION 24	AME: ED: ETED: 418+5	0SB	OFFSET	12/03/1 12/03/1 Ozauke 75' I	DR CR LO CR	ILLING CONTRACTOR:  EW CHIEF:  GGED BY:  G QC BY:  C. Wierzch:  WNSHIP:  RANGE:  Stil / Rot  and Geolo	MD AET lowski	DRILLING CONTRACTOR PROJECT DRILL RIG: HOLE SIZE: HAMMER TYPE:  1/4 SECTION:		CTION:	in ST	ORTHING OORDIN ORIZON TREAMB	G: 4021 IATE SYS TAL DAT	STEM: TUM: VATION:	S1 VE	ASTING: 603403.153 WCCS ERTICAL DATUM:
DATE STARTE  DATE COMPLE  COUNTY:  STATION  24	ED: ETED: 118+5		OFFSET	12/03/1 Ozauke 75' I	4   CR   LO   LO   Rt   TO   Rt   T	EW CHIEF: GGED BY:  G QC BY:  C. Wierzch: WNSHIP:  RANGE:  Soil / Roc and Geolo	MD AET lowski	DRILL RIG: HOLE SIZE: HAMMER TYPE:  1/4 SECTION:		CTION:	in H	OORDIN ORIZON TREAMB URFACE	4021 IATE SYS TAL DAT EED ELEV	STEM: TUM: VATION:	VE	603403.153 WCCS
DATE COMPLE COUNTY: STATION 24	ETED:		OFFSET	12/03/1 Ozauke 75' I	14 LO LO Rt TO	GGED BY:  G QC BY:  WNSHIP:  RANGE:  Stil / Roc and Geolo	AET lowski ECTION:	HOLE SIZE:  HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SEC	CTION:	in H	ORIZON TREAMB URFACE	TAL DAT	TUM: VATION:	:	ERTICAL DATUM:
COUNTY: STATION 24	118+5		OFFSET	Ozauke 75' I	ee TO	G QC BY:  C. Wierzche WNSHIP:  RANGE:  Soil / Roc and Geolo	owski ection:	HAMMER TYPE:  1/4 SECTION:	1/4 1/4 SEC	CTION:	in St	TREAMB	ELEVAT	VATION:	:	
STATION 24			OFFSET	75'	Rt TO	C. Wierzch  WNSHIP: RANGE: St  Soil / Roc and Geolo	ECTION:	1/4 SECTION:	1/4 1/4 SEC		SI	URFACE	ELEVAT			NA
24					Rt	Soil / Roo and Geolo			1/4 1/4 SEC					TION:	-	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolo	ck Des			0			()		70	
						Each Major	ogical C	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	15	M 30	2-2-2-5 (4) 2-8-5-11 (13)	- 1 - - 2 - - 3 -		SANDY LOAM, dark brown to matter, TOPSOIL, loose  Medium dense	black, r	noist, trace to little organic							HSA	
				- 6 - - 7 -		5.0  SILTY FINE TO MEDIUM SAN gravel, medium dense	ND, brov	vn, moist, trace clay &		SP						
SS 3	24	M 12	6-11-7-11 (18)	- 9 -		10.0 End of Bo	oring at	10.0 ft.								
						WATER LEVEL & CA	AVE-II	N OBSERVATION DA	ATA							
∑ wa	ATER F	ENCC	DUNTERED	DURIN	IG DF			CAVE - IN DEPTH AT (		ETIO	N:	NMR				WET [ DRY [
			L AT COMP			MR		CAVE - IN DEPTH AFT				NMR				WET [ DRY [
_			lines between							•						DIXT [

ig Land	3501	ept. Kin	of Transp sman Blv	portation	on 📗	WISDOT PROJECT ID:		1229-04-01					G ID	:	MP158
AUCDOT D	Mad	ison	, WI 5370	4	4	WISDOT STRUCTURE ID:		CONICILI TANT PROJECT NO			AGE NO:			li o	1 of
NISDOT PE	ROJECT NA	IVIE:		l-	43	ONSULTANT: RILLING CONTRACTOR:		CONSULTANT PROJECT NO:			ORTHIN				IGITUDE:
						A	ET	DRILLING CONTRACTOR PROJECT NO:				3573	82.49	3 EAS	602457.99
DATE STAF				12/04/	14	REW CHIEF:	MD	DRILL RIG: HOLE SIZE:				IATE SY		VE	WCC:
COUNTY:	FLETED.			12/04/	14	OG QC BY:	ET	HAMMER TYPE:	4	in			VATION:	VER	THOAL DATOW.
STATION			OFFSET	Ozauk	ee	C. Wierzchow OWNSHIP: RANGE: SECTI	ski	1/4 SECTION: 1/4 1/4 S	ECTION			ELEVA			N/
,	344+00 	Port	0.1021	130'	Rt			# 1 0 Z 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1			J. 11 71.02				
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock l and Geologic Each Major Un	cal C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	13	M 18	1-4-3-5 (7)	- 1 -		36" TOPSOIL							F	ISA	
SS 2	15	M 27	1-4-3-6 (7)	3 -		3.0  SILTY CLAY, reddish brown, moi	st, tra	ace sand, stiff		1.75	55	37			
				- 6 -					CL						
SS 3	23	M 19	3-10-7-11 (17)	1 - 9 -		Hard  10.0  Find of Rogin	ng at	10 0 <del>ft</del>		4.5					
				-		End of Borin	y at	io.o it.							
						WATER LEVEL & CAV	E-IN	OBSERVATION DATA							
							120								
<u> </u>	/ATER	ENCC	UNTERE	DURIN	NG D	RILLING: NE	图	CAVE - IN DEPTH AT COMP	LETIC	N:	NMR				WET [ DRY [ WET [ DRY [

OEP.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP159
HTMER	OF TRANSPOR	Mad	lison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
WIS	DOT PRO	OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:			L	ATITUDE	E:		Lo	ONGITUDE:
RO	A YAWDA	IAME:				Di	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	ig: <b>357</b> 4	156.6	39 E	ASTING: <b>602433.407</b>
DA	TE STAR	ΓED:			12/04/	14 CI	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	NATE SY			wccs
DA	TE COMP	LETED:			12/04/	LC	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	JNTY:				Ozauke	LC	og qc BY:  C. Wierzcho		HAMMER TYPE:				TREAME	BED ELE	VATION	: '	N/
STA	TION 3	44+75	Dort	OFFSET	152'	Т	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	URFACE	ELEVA	TION:		147-
			0.0		102												
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					<b>-</b> 1 -		12" TOPSOIL  1.0  SILTY CLAY, gray/olive/brown	mottle	d, moist, trace sand, stiff			-				HSA	
	SS 1	13	M 23	1-3-2-4 (5)	- 2 -							2.0					
	SS 2	13	M 30	2-4-2-5 (6)	- 4 -						CL	2.0					
NUKEE CO.GPJ 143 8/21/15					- 6 -												
OOUNTIESIOZAMKEEL43/1226-04-01 - 143 - SILVERSPRING DR TO STH ØNGINTIZ28-04-01 OZAUKEE OO GPJ 143 8271/5	SS 3	24	M 13	3-9-7-9 (16)	- 9 -		8.0 SILTY CLAY, brown, moist, tra				CL	3.1					
- F01 - F4					10		End of Bo	ring at	10.0 ft.								
1229-04							\\\ATED   E\\E\ 0.00	\/ <b>_</b> '	N ODOEDVATION D	ΛT ^							
EE/143/	7 \ \	ATCD	ENICO		י רו וריי	IC D	WATER LEVEL & CA				ETIC	NI:	VIV AL				WFT F
OZAUKEE				DUNTERED					CAVE IN DEPTH AT				NMR				WET DRY WET
NTIES/OZ	·			L AT COMF			NMR	1 ===	CAVE - IN DEPTH AFT				NMR				WET [ DRY [
NOS:							resent the approximate boundary; gradu urement Recorded	uai trans	ธนเบก ฆะเพeen in-situ soli layer	s snould	ρe ext	ected.					

Meao.	ONSIN. BOE	WI E	ept. Kin	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP160
IA/IO	TRANSPOR	Mad OJECT NA	ison	, WI 53704	4		WISDOT STRUCTURE ID:  CONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			ميا	1 of 1
	OWAY N		uvic.		I-	43	CONSULTANT:  DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			ORTHIN				STING:
	STAR						CREW CHIEF:	DRILL RIG:			OORDIN	364	1713.10	3	602942.078
		LETED:			11/04/	14	MD OGGED BY:	HOLE SIZE:			ORIZON			VE	WCCS
COUN					11/04/	14	OG QC BY:	HAMMER TYPE:	4	in			VATION:		
STAT	ION	3+45M	og P	OFFSET	Ozauko 40'	ĪΤ	C. Wierzchowski  TOWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4 S	SECTION:	SI	JRFACE	ELEVA	TION:		NA
	204		ечь		40	Rί									
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological C Each Major Unit / C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
						√ 7 <sub>1</sub> 7, 7,							ŀ	ISA	
					<del> </del> 1 -	77	0.9 SILTY CLAY, gray/brown mottled, mo	st, trace sand, stiff							
$\bigvee$	SS 1	13	M 20	0-4-2-7 (6)	- 2 -					2.0					
$\setminus \setminus$					+ 3 -		Hard								
$\backslash\!\!\!\backslash$	SS 2	20	M 16	2-8-5-12 (13)	- 4 -				CL	4.5					
<u> </u>					5-6-										
					- 7 -		7.0 SILTY CLAY, brown, moist, trace sand	d, hard							
	SS 3	24	M 18	5-8-11-14 (19)	- 8 -					4.5					
					- 11 -				CL						
					- 12 - 13 -		Gray, trace organic matter, stiff								
	SS 4	3	M 18	2-6-3-7 (9)	- 14 -		15.0								
					15		End of Boring at	15.0 ft.							
							WATER LEVEL & CAVE-II	OBSERVATION DATA							
¥	+			DUNTERED				CAVE - IN DEPTH AT COMP			NMR				WET DRY
Ā				L AT COM			NMR	CAVE - IN DEPTH AFTER 0			NMR				WET   DRY
NO							resent the approximate boundary; gradual trans urement Recorded	ition between in-situ soil layers should	d be exp	ected.					

March   Marc	S WISC	ONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>D</b> :	MP161
143   Miles	HATTER OF	TRANSPOR	Mad	ison	, WI 53704	u. 												1 of 1
MILEONATION   1/19/15				ME:		I-	43											ONGITUDE:
Microscope							D	AET	T		CT NO:				3648	3 <u>6</u> 6.0	76 E	ASTING: <b>602941.643</b>
Trights	DATE	START	TED:			1/16/	15 C	REW CHIEF:	$\neg$	DRILL RIG:			С	OORDIN	NATE SY	STEM:		wccs
Continue	DATE	COMP	LETED:			1/16/	15	OGGED BY:	т	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   12   W   0-1-0-1   2							L	OG OC BY:	$\neg$	HAMMER TYPE:			S	TREAME	BED ELE	VATION	l:	N/
SS 24 M 2-10-6-11 9 10-0 SS 25 SS 25 SS 24 M 2-10-6-11 9 10-0 SS 25 SS 25 SS 24 M 2-10-6-11 9 10-0 SS 25	STAT	ION <b>204</b>	5+00M	eqB	OFFSET		Т			1/4 SECTION:	1/4 1/4 SE	CTION	: S	URFACE	ELEVA	TION:		
SS   9   M   2-2-1-3   A   OH   OH   OH   OH   OH   OH   OH						Depth (ft)	Graphic	and Geological	10	rigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 12 W 0-1-0-1 - 2						1 4 2	71 1/2 1/2 7/1	1.0 ORGANIC SILT, dark gray to dark br	orov	vn, wet, little sand, trace							HSA	A
SS 2 9 M 2-2-1-3 - 4  - 6  - 7  - 7  - 8  - 8  - 8  - 8  - 8.0  SILTY CLAY, reddish brown, wet, trace sand, hard  - CL 4.5  - CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLET			12			- 2-		gravel, very soft						NP	NP			
SS 24 M 2-10-6-11 9 SILTY CLAY, reddish brown, wet, trace sand, hard  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			9		2-2-1-3			Medium				ОН	0.75	NP	NP			
SS 24 M 2-10-6-11 9 SILTY CLAY, reddish brown, wet, trace sand, hard  CL 4.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR	1																	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR									race	e sand, hard								
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			24	M 17		- 9 -		10.0				CL	4.5					
WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY			<u> </u>		I	<del>' 10</del>	<u> </u>		at 1	0.0 ft.			1					ı
WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER ENCOUNTERED DURING DRILLING: 1ft.  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY																		
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY D  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE-	-IŅ	OBSERVATION D	ATA							
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\bar{\Delta}$	W	ATER	ENCC	DUNTERED	DURIN	IG D	RILLING: 1ft.	ă A	CAVE - IN DEPTH AT	COMPL	ETIC	N:	NMR				WET DRY
	Ā	W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AFT	TER 0 H	OUF	RS:	NMR				WET [ DRY [
2) NE = Not Encountered; NMR = No Measurement Recorded	NO								ansii	tion between in-situ soil layer	rs should	be ex	pected.					

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LO	OF WIS	CONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT	T ID:	1229-04-01					RIN	G IE	):	MP162
PRICE   PRIC	ATTANGE OF CO.	FTRANSTO	Mad	ison					URE ID:									1 of 1
Marting   Mart				ME:		I	43											
119915									AET		ECT NO:				3650		98 E	ASTING: 602927.849
1/19/16   COUNTY						1/19/	15		MD									wccs
STATION   CONTINUE			LETED:			1/19/	15		AET			4 in	1					ERTICAL DATUM:
SS   19 M   M   M   M   M   M   M   M   M   M						Ozauk	ee		C. Wierzchowski									NA
SS 19 M 22 3-5-4-6 (9) - 4 - 1	STAT	TION <b>204</b>	7+00M	eqB	OFFSET	15'	Rt T	OWNSHIP: RANGI	E: SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SUI	RFACE	ELEVAT	TION:		
SS 19 M 3-5-4-6 (9) 5 - 4 - CL-ML	SAMPI F TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	and Geological C	Origin for		Strength On	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 2 19 M 22 3-5-4-6 - 4 - 5 - 5 - CL-ML			12	M 22	1-3-2-3 (5)	- 2 -	7.7	1.0	orown/gray/red, moist	medium		1	1.0				HSA	
		SS 2	19	M 22	3-5-4-6 (9)	- 4 -		Very stiff				2	2.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	01 OZAUKEE CO.GPJ 143 821/15					- 7 -					CL	-ML						
End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	- SILVERSPRING DR TO STH 60/GINTY1229-04		2		6-11-7-13 (18)	- 9 -		10.0										
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	+01 - 143					10			End of Boring at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DRILLING: NE  WATER ENCOUNTERE	V1229-04							WATEDIE	-\/FI & CA\/E !!	N ORSERWATION I	<b>Σ</b> ΔΤΔ							
WATER LEVEL AT COMPLETION: NMR  WET	<u> </u>	١٨/	ATFR	FNC	NUNTERED	DI IDIN	וט טו					TION:		JMP				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	NOZAUI								<b> </b>									DRY WET
	NO NO								boundary; gradual trans									DKY [

ALSO WSW. 180	WI E	ept.	of Trans	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP163
WISDOT DE	Mad	ison	, WI 5370	4	4	WISDOT STRUCTURE ID:	CONSULTANT DOOLEGT NO			AGE NO:			LONG	1 of '
WISDOT PRO		WE:			43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			LONGIT	
ROADWAY N						ORILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT NO:				3652	264.69	EASTIN	G: 602942.4
ATE COMP				1/19/	15	CREW CHIEF: MD	DRILL RIG:			OORDIN			\	WCC
ATE COMPL	LETED:			1/19/	15	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VERTIC	AL DATUM:
COUNTY:			OFFSET	Ozauk	ee	OG QC BY:  C. Wierzchowski  TOWNSHIP: RANGE: SECTION:	HAMMER TYPE:	SECTION:		JRFACE		VATION:		N/
2049	9+00M	eqB	OFFSET	10'	Rt '	OWNSHIP. RANGE. SECTION.	1/4 SECTION. 1/4 1/4	SECTION:	50	JRFACE	ELEVA	I ION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				<u> </u>	1/2 x	12" TOPSOIL  1.0  CLAYEY SILT, reddish brown, moist,	trace fine sand, soft					ŀ	ISA	
SS 1	10	M 33	1-1-1-1 (2)	- 2-										
SS 2	0	M	5-15-9-17 (24)	7 - 4 -		Very stiff		CL-ML						
				5-		5.0 SILTY CLAY, brown, trace sand, very	stiff							
				- 6 -										
				8 -				CL						
SS 3	24	M 18	4-9-6-11 (15)	- 9 -					3.25					
			1	10	<u> </u>	10.0 End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-II	N OBSERVATION DATA							
∑ w	ATFRI	-NCC	OUNTERE	D DURIN	NG D		CAVE - IN DEPTH AT COM		Λ.	NMR				WET [ DRY [
			L AT COM			NMR	CAVE - IN DEPTH AFTER 0			NMR				DRY [ WET [ DRY [
						resent the approximate boundary; gradual trans								טאץ

Misc.	ONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	): 	MP164
AHTTE OF	TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		DJECT NA	ME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	WAY N							ΕT	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3654		07 E	ASTING: 602971.685
	START				1/19/	15 C	REW CHIEF:	ΙD	DRILL RIG:				OORDIN				wccs
DATE	COMP	LETED:			1/19/	15	OGGED BY:	ΕT	HOLE SIZE:		4	in	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COUN					Ozauk	L	OG QC BY:  C. Wierzchows	ski	HAMMER TYPE:			S	TREAME	ED ELE	VATION	1:	N/
STATI	10N <b>205</b>	1+00M	eqB	OFFSET	20'	T	OWNSHIP: RANGE: SECTIO	ON:	1/4 SECTION:	1/4 1/4 SE	CTION:	S	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		12" TOPSOIL  1.0  SILTY CLAY, light brown, moist, lit	ttle	sand, hard							HSA	A
	SS 1	14	M 18	1-5-3-8 (8)	- 2 -							4.5					
	SS 2	22	M 18	3-10-6-10 (16)	- 4 -							4.5					
					- 6 -						CL						
	SS 3	0	M	2-5-4-8 (9)	- 8 - - 9 -		Stiff  10.0 End of Rogina	104	10.0 <del>f</del>								
					-		End of Boring	at	1υ.υ π.								
							WATER LEVEL & CAVE	=_	N OBSERVATION D	)ΑΤΑ							
$\overline{\nabla}$	W	ATER	ENCC	DUNTERED	DURI	NG D			CAVE - IN DEPTH AT		ETIC	N:	NMR				WET DRY
<u>_</u>	+			L AT COMF				<u>=</u>	CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
							resent the approximate boundary; gradual tr	=					. TIVII \				DRY [
,,,,,,,							resent the approximate boundary, gradual ti urement Recorded	aris	ilion between in-situ soii läyei	is sribuid l	JE EX	recied.					

OF WILE	CONSIN.	WI [	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	MP165
AHTIMERYO	TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE	ID:				AGE NO				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	OWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		IORTHIN	3656	60.84	<b>4</b>   EA	ASTING: 603026.006
	START				11/04/	14	REW CHIEF:	MD	DRILL RIG:			OORDIN				wccs
	COMP	LETED:			11/04/	14	OGGED BY:	AET	HOLE SIZE:	4	in	IORIZON			VE	ERTICAL DATUM:
	NTY:				Ozauk	ee		Nierzchowski	HAMMER TYPE:					VATION:		NA
STAT	<b>205</b> 3	3+00M	eqB	OFFSET	60'	Rt	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	s	URFACE	ELEVA	HON:		I
HAYT HIGH AS	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	an	Soil / Rock Des Id Geological ( In Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		0.3 3" TOPSOIL SILTY CLAY, reddis	h brown, moist, tr	ace sand, very stiff						HSA	
	SS 1	17	M 16	1-6-3-9 (9)	- 2-						3.75	i				
	SS 2	24	M 18	5-10-8-15 (18)	- 4 -		Hard			CL	4.5					
/ \					- 6 -											
	SS 3	24	M 20	3-6-5-8 (11)	- 7 - - 8 - - 9 -		8.0 SILTY CLAY, gray/b stiff	rown, moist, trace	e sand & fine gravel, very		3.25					
29-04-01 OZAUKEE CO.GPJ 143 8/21/15					10 - 11 - - 12 -					CL						
OUNTIESOZAUKEN-431229-04-01 - 1-43 - SILVERSPRING DR TO STH 60(SINT)1229-04-01 OZAUKEE CO. GPJ 1-43 - 821/15	SS 4	18	M 19	1-4-4-5 (8)	- 13 - - 14 -		Stiff				1.5					Qu = 2.4
29-04-01								End of Boring at	15.0 ft.							
N-43/122							WATER LEVE		N OBSERVATION D	ATA						
ZAUKE	W	ATER	ENCC	DUNTERED	DURIN	IG D	RILLING: NE		CAVE - IN DEPTH AT	COMPLETIC	N:	NMR				WET DRY
TIES/OZ				L AT COMF			NMR	Ē	CAVE - IN DEPTH AF			NMR				WET   DRY
NO NO							esent the approximate boun urement Recorded	ndary; gradual trans	sition between in-situ soil layei	rs should be exp	ected.					

. DEF.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP166
MATTHERY	OF TRANSPOR	Mad	ison	, WI 53704	u. ļ		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	ΕT	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3657		42 E	ASTING: <b>603035.913</b>
	E START				11/04/	14		ΙD	DRILL RIG:					NATE SY			wccs
	E COMP	LETED:			11/04/	14	OGGED BY:	ΕT	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
	JNTY:				Ozauke	e	og qc by:  C. Wierzchows	ski	HAMMER TYPE:					BED ELE		l:	NA
SIA	TION <b>205</b> 4	4+00M	eqB	OFFSET	65'	Rt '	OWNSHIP: RANGE: SECTIO	)N:	1/4 SECTION:	1/4 1/4 S	ECTION	s	URFACE	ELEVA	HON:		T
L (2)	SAMPLE I YE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					- 1 -		0.3 3" TOPSOIL SILTY CLAY, brown, moist, trace s	san	d & gravel, very stiff							HSA	N.
	SS 1	17	M 16	2-5-4-8 (9)	- 2 -							4.0					Qu = 6.8
	SS 2	18	M 13	1-8-5-9 (13)	- 4 -						CL	4.0					Qu = 4.1
					- 6 -		8.0 SILTY CLAY, gray, moist, trace sa	and,	stiff			_					
PJ 143 8/21/15	SS 3	24	M 19	2-7-5-8 (12)	- 9 -							2.0					Qu = 2.8
DOUNTIES/DZAUKEE/43/1229-04-01 - 1-43 - SILVERSPRING DR TO STH 60/GINT71229-04-01 OZAUKEE CO. GPJ 1-43 8/21/15					- 11 - - 12 - - 13 -		Very stiff				CL						
143 - SILVERSPRING DR TO S	SS 4	24	M 18	1-5-4-6 (9)	- 14 <i>-</i>		15.0					2.25					Qu = 3.2
9-04-01					13		End of Boring	at	15.0 ft.								
N-43/122							WATER LEVEL & CAVE										
ZAUKEE				UNTERED			RILLING: NE	<u></u>	CAVE - IN DEPTH AT				NMR				WET DRY
TIES/OZ				L AT COMF			NMR J	_	CAVE - IN DEPTH AF				NMR				WET  DRY
NOO):r							resent the approximate boundary; gradual tr urement Recorded	rans	sition between in-situ soil layei	rs should	be ex	pected.					

EM OF			of Transp sman Blv		n	WISDOT PROJECT ID:	1229-04-01					G ID	: M	P167
WISDOT PF	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:  CONSULTANT:	CONSULTANT PROJECT NO:			AGE NO:			LONGITUDE:	1 of '
ROADWAY		uvić.		J-4	13	CONSULTANT:  DRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	CT NO:		ORTHIN			EASTING:	
DATE STAR						CREW CHIEF:	DRILL RIG:	CT NO.			3661 IATE SY	05.92	B 603	120.74
DATE COM				11/04/1	14	MD OGGED BY:	HOLE SIZE:				TAL DA		VERTICAL DATU	WCC:
COUNTY:				11/04/1	14	OG QC BY:	HAMMER TYPE:	4	in			VATION:	VEITHONE BATTO	
STATION			OFFSET	Ozauke	e	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:			ELEVA			N/
381	+25Meg	uon		35'	<b>≺t</b>									
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	tes
SS 1	15	M 5	8-8-10-7 (18)	- 1 - - 2 -		MEDIUM TO COARSE SAND, brown silt, FILL, medium dense 36" BASE C	moist, some gravel, trace OURSE	SP				F	ISA	
SS 2	13	M 10	3-1-3-3 (4)	- 4 -		3.0  SILTY FINE TO MEDIUM SAND, brown FILL, very loose  4.5  SILTY CLAY, dark gray/black, moist,		SM						
SS 2A		M 26		5 - 6 -		6.0SILTY CLAY, brown/light brown mottl		CL	2.0					
				- 7 -		gravel, hard		CL						
SS 3	24	M 17	2-10-7-14 (17)			10.0		SE .	4.5				Qu = 6.5	
	1		1	10		End of Boring at	10.0 ft.						1	
						\\/\\TED!E\/E!	N OBSEDVATION D	λΑΤΛ						
<u> </u>	/ΔTED	=NICC	DUNTERED	יוםו וחיי	IC L	WATER LEVEL & CAVE-II RILLING: NE 超	CAVE - IN DEPTH AT		ΛI·	NMR				WET [
			L AT COM			NMR E	CAVE - IN DEPTH AT			NMR				WET DRY DRY DRY
/ I IV	· AIERI	v ⊏	LAI COM			resent the approximate boundary; gradual trans				NIVIE				DRY [

430.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISI	DOT PROJE	ECT ID:			1229-04-0	)1				RIN	G II	D:	MP168
ARTIMEN	OF TRANSPOR	Mad	lison	, WI 53704				OOT STRU	CTURE ID:							PAGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:				CONS	JLTANT PROJECT N	10:			LATITUD	E:		L	ONGITUDE:
ROA	A YAWDA	NAME:				0	RILLING CONT	RACTOR:		AET	DRILL	NG CONTRACTOR P	PROJECT N	0:		NORTHI	NG: <b>366</b>	102.3	78	EASTING: <b>603195.552</b>
DAT	TE STAR	TED:			11/04/	'14 C	REW CHIEF:			MD	DRILL	RIG:				COORDI	NATE SY	'STEM:	·	wccs
DAT	TE COMP	LETED:			11/04/	L	OGGED BY:			AET	HOLE	SIZE:			4 in	HORIZOI	NTAL DA	TUM:	V	/ERTICAL DATUM:
COL	JNTY:				Ozauk	L	OG QC BY:		C Wier	rzchowski	HAMM	ER TYPE:				STREAM	BED ELE	OITAV	N:	N/A
STA	TION	00Mec	IIIOn	OFFSET	35'	Т	OWNSHIP:	RAN	NGE:	SECTION:		1/4 SECTION:	1/4	1/4 SECTIO	N: 5	SURFAC	E ELEVA	TION:		147-
			uo																	
L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic			and G Each Ma	/ Rock Des eological ( ajor Unit /	Origin Comr	for nents		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	
	SS 1	17	M 6	9-9-13-3 (22)	2		MEDII silt, m	UM TO ( edium d	COARSE G	GRAVELLY S	SAND, SE	brown, moist, tra	ace	GW	,				HSA	A
					+ 3 -			CLAY, I	brown, moi	ist, trace sar	nd, ver	/ stiff			1					
	SS 2	12	M 16	3-6-3-12 (9)	- 4 -										2.25	5				
01 OZAGNEE CO.: 973 143 02 [7]3					- 6 -									CL						
SOUNTESOUZANEELHANIZSAGHUI - 14-3 - SILVERSPRING DR. 10 SIT BOIGHNI (ZZZGGHU U ZZAUREE UJ, GP7 - 143 9Z II) SI	SS 3	17	M 16	3-12-8-15 (20)	- 9 -		10.0			(0)	40.5									
<u>+</u>					10				End	of Boring at	10.0 f									
W 228-04							\Λ/Δ	TFRI	FVFI 8	R CAVE-I	N OF	SERVATIO	ΝΠΔΊ	-A						
	7 \_\_\	ATFR	FNC	DUNTERED	וום וח	NG D		NE	V L_L C	X CAVE-I	_	VE - IN DEPTH			ON.	NMR	?			WET DRY
				L AT COMF			NMR	INE				VE - IN DEPTH				NMR				DRY WET DRY DRY
N/	·							nroximet	e boundary	aradual tran		etween in-situ soil					•			DRY [
3				countered; NN					- Souridary,	, graduar ii di i	J.4011 D	oon iir-sita sull	. rayora al		.بددودور	•				

Martin	OF WISC	CONSIN.	WI E	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01			во		G II	<b>)</b> :	MP169
1.43   1.50	ATT MONTON	TRANSPOR	Mad	ison	, WI 53704	ĭ.											1 of 1
Material				ME:		I-	43										
11515								AE	ΞΤ		CT NO:			3669		25	ASTING: 602673.365
11/5/15   10   21   15/5/15   15/5						1/15/	15	M	1D								wccs
CALIFIC   Comments			LETED:			1/15/	15	AE	ΞT			4 in					ERTICAL DATUM:
SS   10   M   2-54-6   2   2-10   10   2   2   2   2   2   2   2   2   2						Ozauk	ee	C. Wierzchows	ki							l:	NA
SS   10 M   2-54-6   2   20   20   20   20   20   20   20	STAT	10N <b>206</b>	5+50M	eqD	OFFSET	53'	Lt T	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SECTION	1:	SURFAC	E ELEVA	TION:		
SS 2 M 1-3-2-4 - 4	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geologica	al C	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   2   M   1-3-2-4   4			10		2-5-4-6 (9)	- 1 -		) 2.0	stiff							HSA	
Very stiff  SS 24 M 3-8-6-10 9 Very stiff  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			2		1-3-2-4 (5)	- 4 -						1.2	5				
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.			24			- 7 -		Very stiff			CL-M		0				040
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  MOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\setminus$	3		20	(14)	10			at	40.0 ft							Qu = 4.9
WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET DRY  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WET								Life of Burning	ul								
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LEVEL & CAVE	-11	OBSERVATION D	ATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	W	ATER	ENC	DUNTERED	DURII	NG D	RILLING: NE	<b>E</b>	CAVE - IN DEPTH AT	COMPLETI	ON:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Ā	W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR J		CAVE - IN DEPTH AF	TER 0 HOU	RS:	NMR				WET DRY
2) NE = Not Encountered; NMR = No Measurement Recorded	NO								rans	ition between in-situ soil laye	rs should be ex	pecte	d.				

OEF V	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	):	MP170
MATTHERS	OF TRANSPOR	Mad	lison	, WI 53704	u. ‡		WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N							ΕT	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3670	13.1	47 E	ASTING: <b>602711.44</b>
	E STAR				1/15/	15		ΙD	DRILL RIG:				OORDIN				wccs
	E COMP	LETED:			1/15/	15		ΕT	HOLE SIZE:		4	in	ORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	.og QC BY:  C. Wierzchows	ski	HAMMER TYPE:				TREAMB			l:	NA
STA	TION <b>206</b>	6+30M	eqD	OFFSET	30'	Lt T	TOWNSHIP: RANGE: SECTION	ON:	1/4 SECTION:	1/4 1/4 SEC	CTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE	SAMPLE 17PE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock E and Geologica Each Major Unit	al (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -		24" TOPSOIL									HSA	
$\left\langle \cdot \right\rangle$	SS 1	11	M 27	2-2-2-3 (4)	3 -	ly. A	72.0 FINE SANDY SILT, brown, moist t	to w	et, trace clay, soft								
$\bigvee$	SS 2	17	M 22	2-2-1-2	- 4 -												
					- 6 -						SM						
	SS 3	15	M 14	3-3-3-3 (6)	- 9-		Medium										
М		1		I.	<del>  10  </del>	r. Edi	End of Boring	g at	10.0 ft.			-			<u> </u>	1	1
L	,						WATER LEVEL & CAVE										=
Ā				DUNTERED					CAVE - IN DEPTH AT				NMR				WET DRY
$\bar{\Lambda}$				L AT COMF			NMR J		CAVE - IN DEPTH AF				NMR				WET  DRY
NC							resent the approximate boundary; gradual tourement Recorded	rans	ition between in-situ soil laye	rs should b	e exp	ected.					

S TO B	WI E	ept.	of Transp sman Blvo	ortation	on	WISDOT PROJECT ID:	1229-04-01			BOF		G ID	) <u>:</u>	MP171
OF TRANSPOR	Mad	ison,	Sman Bivo WI 53704	J.		WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	T NO:		IORTHIN	3670	81.81	9	ASTING: <b>602725.013</b>
DATE STAR				1/15/	15	REW CHIEF:	DRILL RIG:			OORDIN	ATE SY	STEM:		wccs
DATE COMP	PLETED:			1/15/	15	OGGED BY:	HOLE SIZE:	4	in	IORIZON	TAL DA	ΓUM:	VE	ERTICAL DATUM:
COUNTY:				Ozauk	L	OG QC BY:  C. Wierzchowski	HAMMER TYPE:		S	TREAMB	ED ELE	VATION:	•	N/
STATION <b>206</b>	7+00M	eqD	OFFSET	30'	Т	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	s	URFACE	ELEVA <sup>*</sup>	ΓΙΟN:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
ss		M	2-4-2-4	- 1 -		24" TOPSOIL							HSA	
1	12	23	(6)	- 2 -	<i>b</i> . \	SILTY FINE SAND, brown, moist to v	et, loose							
SS 2	21	M 19	1-3-3-4 (6)	- 4 -				SM						
				- 6 - - 7 <sub>\subseteq}</sub>										
				- 8 -		8.0SILTY MEDIUM TO COARSE SAND gravel, loose	gray/brown, wet, trace		_					
SS 3	20	W 17	2-7-2-11 (9)	- 9 - <u>B</u>				SM						
1	1			10		10.0 End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
$\overline{}$	ATED	ENICC	UNTERED	DURIN	NG D	RILLING: 7.2ft. 超	CAVE - IN DEPTH AT (		NI:	9.5ft.				WET [ DRY [
$\nabla \mid w$	AIER		ONILILL	DOM	100	1.11 1.21. 1.21. 1.21.	ONVE INDEFINITY	JOIVII LL I IO	14.	g.oit.				DRY (
			L AT COMP			NMR I	CAVE - IN DEPTH AFT			NMR				DRY [ WET [ DRY [

1/23/15   1/23	MISCONSIN. V	/I Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	MP172
143   15   15   15   15   15   15   15   1	NOFTRINED N	ladison	i, WI 53704	ĭ. Į			D:	T							1 of 1
AET				I-4	43										
1/23/15		:					AET		JECT NO:			3769		B EAS	STING: 603374.221
1/23/16   OCUMITY   OCUMING   OCUM				1/23/	15		MD								wccs
Standard	D:		1/23/	15		AET			4 in				VEF	RTICAL DATUM:	
2165+50HighA 15 Rt   15 Rt   22   3-3-2-5   2   2   10   17   4-7-5-10   4   5   2   19   17   4-7-5-10   4   5   2   19   17   4-7-5-10   4   5   2   19   17   4-7-5-10   4   5   5   10   17   4-7-5-10   4   5   5   10   17   4-7-5-10   4   5   5   10   17   4-7-5-10   4   5   17   4-7-5-10   4   17   4-7-5-10				Ozauke	ee	C. W	Vierzchowski								NA
12" TOPSOIL  12" TOPSOIL  13" SILTY CLAY, brown/gray mottled, moist, trace sand, stiff  1.30  Hard  4.5	2165+5	HighA	OFFSET	15'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTION	N:   S	SURFACE	ELEVA	TION:		
SS 19 M 4-7-5-10 4- 1	SAMPLE TYPE NUMBER RECOVERY (in)	(RQD) Moisture	BLOW COUNTS (N VALUE)			and Each	d Geological (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)			Notes
SS 19 M 4-7-5-10 4		1 M 22	3-3-2-5 (5)	- 2 -	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1.0	gray mottled, mo	ist, trace sand, stiff		1.30			H	ISA	
	SS 2 1		4-7-5-10 (12)	- 4 -		Hard				4.5					
SS 3 21 M 4-12-8-16 9 4.5				- 7 -					CL						
10.0	SS 3 2		4-12-8-16 (20)	9 -				40.05		4.5					
End of Boring at 10.0 ft.				. •		E	⊨nd of Boring at	1υ.υ π.							
WATER LEVEL & CAVE-IN OBSERVATION DATA						WATER LEVF	L & CAVE-II	N OBSERVATION	DATA						
▼ WATER ENCOUNTERED DURING DRILLING: NE                              MR		R ENC	OUNTERED	DURIN	NG DI					ON:	NMR				WET DRY
▼ WATER LEVEL AT COMPLETION: NMR								-							WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES: 1) St						dary; gradual trans	sition between in-situ soil la	ers should be ex	kpectea	!.				

OF NO.	WI E	0ept. 2 Kin	of Transp sman Blv	portation	on	WISDOT PROJECT ID:		1229-04-01					G ID	: M	P173
MISDOT DE	Mad ROJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:		CONSULTANT PROJECT NO.			AGE NO:			LONGITUDE:	1 of
		MVIE:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				
ROADWAY							ET	DRILLING CONTRACTOR PROJECT NO	:		ORTHIN	3770	86.28	EASTING: 603	374.00
DATE STAF				11/05/	14		MD	DRILL RIG:			OORDIN				WCC
DATE COM	PLETED:			11/05/	14		ET	HOLE SIZE:	4	in	ORIZON			VERTICAL DATU	M:
COUNTY:			OFFSET	Ozauk	ee	OG QC BY:  C. Wierzchow OWNSHIP: RANGE: SECT	ski	HAMMER TYPE:	4 OFOTION		JRFACE		VATION:		N/
216	7+00Hi	ghA	OFFSET	15'	Rt '	OWNSHIP. RANGE. SECT	ION:	1/4 SECTION: 1/4 1	4 SECTION	1	JRFACE	ELEVA	I ION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologic Each Major Un	cal C	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	tes
				1 -		12" TOPSOIL  1.0  SILTY CLAY, black/dark gray, mo	oist, t	race sand, little organics,					F	ISA	
SS 1	15	M 22	0-2-1-3	- 2-		SUIL			CL						
ss	15	M	0-4-2-6	3 -		3.0 SILTY CLAY, brown/light brown,	moist	t, trace sand, very stiff		2.25					
2	15	21	(6)	5-						2.25					
				- 6 -					CL						
				8 -		Hard									
SS 3	23	M 17	3-10-8-15 (18)	5 - 9 -						4.5				Qu = 5.9	
1				10	<u> </u>	10.0 End of Borir	ig at	10.0 ft.							
							J	<u> </u>							
						WATER LEVEL & CAV	E-IN	OBSERVATION DAT	Α						
							100							_	
<u> </u>	/ATER	ENCC	DUNTERED	DURI	NG D	RILLING: NE		CAVE - IN DEPTH AT COM	/IPLETIC	N:	NMR				WET [ DRY [ WET [ DRY [

S NISCONSIN	WI D	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	MP174
OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:					AGE NO:				1 of '
WISDOT PRO		ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY N						RILLING CONTRACTOR:  AET	Т 📗	ORILLING CONTRACTOR PROJECT NO	): 		IORTHIN	3770	86.2	31 E	ASTING: 603334.00
DATE STAR				11/05/	14	REW CHIEF: MD	D	ORILL RIG:			OORDIN				wcc
DATE COMP	LETED:			11/05/	14	OGGED BY: AET	т 📗	HOLE SIZE:	4	in	IORIZON				ERTICAL DATUM:
COUNTY:				Ozauk	ee	og qc BY:  C. Wierzchowski	ci 📗	HAMMER TYPE:			TREAME				N.
TATION <b>2167</b>	7+00Hi	ghA	OFFSET	25'	Lt T	OWNSHIP: RANGE: SECTION:	l:	1/4 SECTION: 1/4 1	/4 SECTION	: s	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Ori	igin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				- 1 -	7. 7.0 7. 7.0 7. 7.0	12" TOPSOIL  1.0  SILT, black, moist, trace sand, some	e cla	ay, little organics, medium						HSA	
SS 1	14	M 21	1-3-2-5 (5)	- 2-					SM						
SS 2	16	M 20	2-3-2-5 (5)	- 4 -		3.0 SILTY CLAY, brown, moist, trace sai	and {	& gravel, stiff		1.75					
				- 6 -					CL						
SS 3	24	M 17	3-10-8-13 (18)	- 8 - - 9 -		Very stiff				3.5					Qu = 5.8
				.5		End of Boring at	at 10	J.U πt.							
						WATER LEVEL & CAVE-I	-JN	OBSERVATION DAT	A						
<u></u>	ATFRI	ENCC	UNTERED	DURIN	NG D			CAVE - IN DEPTH AT COI		DN.	NMR				WET [ DRY [
			L AT COMP			NMR I		CAVE - IN DEPTH AFTER			NMR				DRY   WET   DRY
						resent the approximate boundary; gradual tran	-								אַע

119814   1200	- OEF	SCONSIN.	WI [	Dept.	of Transp	ortati	on	WISDOT P	ROJECT ID:		1229	-04-01				BOF		G IE	<b>)</b> :	MP175
1.42   1.00244   1.0024	ARTIMERS	OF TRANSPOR	Mad	lison					TRUCTURE ID:	:										1 of 1
AFT				ME:		I-	43													
1106/14   1006/15   1006	ROA	ADWAY N	IAME:				D	RILLING CONTRACT	OR:	AET		ACTOR PROJE	CT NO:				3772		66 E	ASTING: 603358.805
11/05/14   11/05/14						11/05/	14			MD										wccs
SS   16 M   1-42-6   2   2   2   3   17 CLAV   light brown to brown, most, trace sand, vary stiff			LETED:			11/05/	14			AET				4	in					ERTICAL DATUM:
Scali / Rock Description   Scali / Rock Descri						Ozauk	ee			ierzchowski										NA
SS   16 M   1-4-2-6   2	STA	TION <b>2168</b>	3+40Hi	ghA	OFFSET		0	OWNSHIP:	RANGE:	SECTION:	1/4 SEC	CTION:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA.	TION:		
SS 16 M 14.2.6 2 2 2 3		SAMPLE I 7PE NUMBER	RECOVERY (in) (RQD)		BLOW COUNTS (N VALUE)	Depth (ft)			and Each	Geological (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)			
SS   16 M   1.4.2.6   2   2.5				20			71 1 <sup>N</sup>	30" TOPS	OIL										HSA	
SS 24 M 2-6-2-8 - 4		1	16	М	1-4-2-6 (6)			2.5 SILTY CLA	AY, light brov	wn to brown, m	oist, trace sand,	very stiff			3.25					
SS 23 M 3-10-7-13 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						T 3 -	V//	Hard												
SS 23 M 3-10-7-13 9    End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	24		2-6-2-8 (8)										4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION: NMR WET LEVEL AT COMPLETION: NMR WATER LEVEL AT COMPLETION: NMR WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	01 OZAUKEE CO.GPJ 143 9/21/15					- 7 -								CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60(GINT/1229-04-	SS 3	23		3-10-7-13 (17)	9 -		10.0	_	and of Paris	10.04				4.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	401-14					. •			Ei	nd of Boring at	10.0 ft.									
WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3/1229-0-							WATF	R LFVFI	& CAVF-I	N OBSERVA	ATION F	ATA							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	₹ Z	7 W.	ATER	ENC	DUNTERED	DURII	NG D							LETIC	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAL	_																		WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	NO	OTES: 1								ary; gradual tran	sition between in-	situ soil laye	ers should	d be exp	ected.					

WISDOT PR			sman Blvo	и.								BOF				MP176
WISDOT PR			WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		ME:		1-4	I3	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWAY	NAME:				DF	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3773	35.93	38 E	ASTING: <b>603323.49</b> 1
DATE STAR	TED:			11/06/1	14 CF	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:		wccs
DATE COMP	PLETED:			11/06/1	LC	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
COUNTY:				Ozauke	LC	og QC BY:  C. Wierzcho		HAMMER TYPE:				TREAME	ED ELE	VATION	:	N/A
STATION 216	9+50Hi	αhΔ	OFFSET	35'	TO	DWNSHIP: RANGE: SE	ECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA	TION:		
		9 (						1								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolo Each Major I	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				+ 1 <del>-</del>	<u>11 11 11 11 11 11 11 11 11 11 11 11 11 </u>	12" TOPSOIL  1.0  SILTY CLAY, brown/light brow	/n mottl	ed, moist, trace sand, stiff			-				HSA	
SS 1	14	M 19	0-2-2-2 (4)	- 2 -							2.0					
SS 2	13	M 19	2-3-3-4 (6)	- 4 -		Very stiff					3.8					
ZAUREE CO.GST 143 ØZITIB				- 6 -						CL						
SOUTES CALL THE STATE THE THE THE THE THE THE THE THE THE T	23	W 19	2-6-4-8 (10)	- 9 -		Gray/brown  10.0  End of Bo	oring at	10.0 ft.			3.75					
10-10-10-10-10-10-10-10-10-10-10-10-10-1																
43/122						WATER LEVEL & CA	VE-II	N OBSERVATION D	ATA							
y V	ATER I	ENCC	UNTERED	DURIN	IG DI	RILLING: 8.2ft.	Ĭ <u>≅</u> I	CAVE - IN DEPTH AT	СОМРІ	LETIC	N:	9.4ft.				WET DRY
▼ w	ATER I	LEVE	L AT COMP	PLETION	<b>N</b> :	NMR		CAVE - IN DEPTH AF	TER 0 H	HOUR	S:	NMR				WET DRY
NOTES:						esent the approximate boundary; gradurement Recorded	ual trans	ition between in-situ soil layei	rs should	be exp	ected.					

Machine   Mach	S U 3	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOI		G ID	):	MP177
Martin   M	OFTRANSO	Mad	ison					):								1 of 1
Martin   M			ME:		I-	43										ONGITUDE:
March   Company   Compan								AET		ECT NO:			3774		3 E	ASTING: <b>603351.84</b>
Solid   Face					11/06/	14		MD								wccs
CAMPATION   CAMP	DATE COMP	LETED:			11/06/	14	OGGED BY:	AET	HOLE SIZE:			HORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
## A STATE AND PROPERTY OF THE	COUNTY:			1	Ozauk	ee	OG QC BY:	/ierzchowski	HAMMER TYPE:		:	STREAM	BED ELE	VATION:		N/
SS   11	STATION <b>217</b> (	)+40Hi	ghA	OFFSET	5'	Lt		SECTION:	1/4 SECTION:	1/4 1/4 SECTIO	N:	SURFACE	ELEVA	TION:		
SS 111 M 24-3-6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Each	d Geological (	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   17   M   3-3-3-5   4	1	11	18	2-4-3-6 (7)	- 1 -		2.7								HSA	
2					3 -		SILTY CLAY, brown,	moist, trace san	d, very stiff							
SS   23   M   3-9-7-11   9	SS 2	17		3-3-3-5 (6)							2.2	5				
SS 3 23 M 3-9-7-11 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR WET DRY WATER LEVEL AT COMPLETION: NMR CAVE - IN DEPTH AFTER 0 HOURS: NMR					- 6 -					CI						
WATER LEVEL & CAVE-IN OBSERVATION DATA   VARIABLE ENCOUNTERED DURING DRILLING: NE   VARIABLE ENCOUNTERED DURING DRILLING: NE  VARIABLE EVEL AT COMPLETION: NMR  VARIABLE EVEL EVEL AT COMPLETION: NMR  VARIABLE EVEL EVEL EVEL EVEL EVEL EVEL EVEL E	SS 3	23		3-9-7-11 (16)			10.0				4.5	;				
▼     WATER ENCOUNTERED DURING DRILLING:     NE     ☑     CAVE - IN DEPTH AT COMPLETION:     NMR     WET DRY       ▼     WATER LEVEL AT COMPLETION:     NMR     □     CAVE - IN DEPTH AFTER 0 HOURS:     NMR     WET DRY					10 -		E	End of Boring at	10.0 ft.							
▼     WATER ENCOUNTERED DURING DRILLING:     NE     ☑     CAVE - IN DEPTH AT COMPLETION:     NMR     WET DRY       ▼     WATER LEVEL AT COMPLETION:     NMR     □     CAVE - IN DEPTH AFTER 0 HOURS:     NMR     WET DRY							WATER I FVF	I & CAVF-II	N OBSERVATION I	DATA						
▼   WATER LEVEL AT COMPLETION:   NMR   ■   CAVE - IN DEPTH AFTER 0 HOURS:   NMR   WET DRY	▽ w	ATER	ENCC	UNTERFO	DURIN	NG D					ION:	NMR				WET [
								1954								DRY WET
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								darv: gradual trans								DKY [

OF WIS	CONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP178
AHTTMERS	TRANSPOR	Mad	lison,	, WI 53704			WISDOT STRUCTURE ID:						AGE NO				1 of 1
		DJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
ROA	DWAY N	IAME:				D	RILLING CONTRACTOR:	ΕT	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	ig: <b>3775</b>	536.10	67 E	ASTING: <b>603352.629</b>
DATE	START	TED:			11/06/	14 °	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	NATE SY			wccs
DATE	COMP	LETED:			11/06/	L	OGGED BY:	ET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	L	OG QC BY:  C. Wierzchows		HAMMER TYPE:				TREAME	BED ELE	VATION	:	NA
STAT	10N 2171	+50Hi	αhΔ	OFFSET	<u>uu</u>		OWNSHIP: RANGE: SECTION	ON:	1/4 SECTION:	1/4 1/4 S	ECTION:	S	URFACE	ELEVA	TION:		
			<u> </u>						1								
HAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock [ and Geologic Each Major Uni	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						1/ 7/	9" TOPSOIL									HSA	Ì
	SS 1	12	M 19	2-4-3-4 (7)	- 1 - - 2 - - 3 -		SILTY LOAM, dark brown/black, r medium  Very stiff	mois	t, trace organic matter,		CL-ML						
$\mathbb{N}$																	
$\mathbb{R}$	SS 2 SS	13	M 18	4-4-6-4 (10)	4 -	44	4.0 MEDIUM TO COARSE SAND, bro	own	moist, trace silt & gravel,			2.25					
M	SS 2A		M 10	(17)			loose		, ,								
					- 5 - 6 7 8 -		Wet, very loose										
	SS 3	10	W 16	1-0-1-0 (1)	- 9 - 10-												
							:										
					11 -						SP						
.GPJ 143 8/21/15					- 12 - - 13 -		FINE TO MEDIUM										
1 60/GINT/1228-04-01 OZAUKEE CC	SS 4	24	W 16	0-0-0-0 (0)	- 14 <i>-</i> 15 												
DQUNTIES/OZAUKERI-431/226.04-01 - 143 - SILVERSPRING DR TO STH 60/GINT/1226-04-01 OZAUKEE OO GPJ. 143 927/15           DQUNTIES/OZAUKEE         IA	SS	<b>A</b> 1	ı w		- 16 - - 17 <u>-</u> - 18 -		18.0 18.1 Possible weathered bedrock - refu	اجور				-					
229-04-0	1		5						184#0==>/								
EN143/1:	1,	A TT-	<b>-</b> 1.6	N. IN ITTE	D. 15.	10 -	WATER LEVEE & CAN						4=				WET 🗆
OZAUKEE	+			DUNTERED				<u> </u>	CAVE IN DEPTH AT				17.3f	t.			WET  DRY  WET
INTIES/OZ				L AT COMF			NMR	tron	CAVE - IN DEPTH AF				NMR				WET □ DRY □
7,000							resent the approximate boundary; gradual t urement Recorded	u af 18	шон ветмеен ш-ыш son тауег	s snould	ne exp	occied.					

WISDOT PRO	Mad	- 13116	sman Blvo	4.								3OF				MP179
			WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
TOO A DIAMANA		ME:		I-4	3	DNSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				NGITUDE:
ROADWAYN	NAME:				DF	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	T NO:			ORTHIN	3776	52.02	8 EA	STING: <b>603360.61</b> 3
DATE START	TED:			11/06/1	4 CF	REW CHIEF:	MD	DRILL RIG:			C	OORDIN	ATE SY	STEM:		wccs
DATE COMP	PLETED:			11/06/1	LO	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	ГИМ:	VE	RTICAL DATUM:
COUNTY:				Ozauke	LO	G QC BY:		HAMMER TYPE:		•		REAMB	ED ELE	VATION:		N/
STATION 2172	2+65Hi	αhΔ	OFFSET	15' R	TC	WNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SU	JRFACE	ELEVA	ΓΙΟΝ:		10
		9.0.						l								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				- 1 <del> </del>		12" TOPSOIL  1.0 SILTY CLAY, brown, moist, tra	ce san	d & gravel very stiff							HSA	
SS 1	15	M 31	2-4-2-5 (6)	- 2-			00 00.	a a gratos, voly out			2.25					
SS 2	9	M 23	3-4-3-5 (7)	3 -		Stiff					1.5					
				5 - 6 -						CL						
				- 7 -		Hard										
SS 3	23	M 17	4-9-6-11 (15)	- 9 -		10.0					4.5					
	_1			<del>' 10 '</del>		End of Bo	ring at	10.0 ft.								
						WATER LEVEL & CA	_	N OBSERVATION D	ATA							
$\nabla$ w	ATER I	ENCC	UNTERED	DURIN	G DF	RILLING: NE	Ĭ <u>ĕ</u>	CAVE - IN DEPTH AT (	COMPLI	ETIOI	N:	NMR				WET DRY
$\mathbf{V} \mid \mathbf{W}$	ATER I	LEVE	L AT COMP	LETION	l: Ī	NMR	ĪĒ	CAVE - IN DEPTH AFT	ER 0 H	OURS	S: 1	NMR				WET [ DRY [
<u> </u>				ooil turos			ıal trans	sition between in-situ soil layers	s should h	he exn	acted					

OFF DE STANDERS OF THE STANDER	WI [	Dept. 2 Kin	of Transp Sman Blv	portati d.	on	WISDOT PROJECT ID:	1229-04-01	_				G ID:	: MP180
MISDOT !	Mad PROJECT NA	lison	, WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			1 of
ROADWA		AVIC.		I-	43	PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJE	ECT NO:		ORTHIN			EASTING:
DATE STA						REW CHIEF:	DRILL RIG:	CT NO.			3785 ATE SYS	85.222	603334.14
	MPLETED:			11/06/	14	OGGED BY:	HOLE SIZE:				TAL DAT		VERTICAL DATUM:
COUNTY:				11/06/	14	OG QC BY:	HAMMER TYPE:	4	in		ED ELE\		
	82+00Hi		OFFSET	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:			ELEVAT		N/
218	82+00Hi	ghA		35'	Rt								
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method Notes
					710	15" TOPSOIL						Н	ISA
1				+ 1 -	<u>' '</u>	1.3							
1						SILTY CLAY, dark brown, moist, with POSSIBLE FILL, hard	n sand, trace gravel,						
∥ ss	3 13	М	3-5-5-7	- 2 -					4.5				
∬ 1 ∬ SS		22 M	(10)					CL	4.5				
/	١	15											
					4	3.0							
1						SILTY CLAY, brown, moist, trace sa	nd, hard						
SS		M 15	3-8-6-10 (14)	- 4 -					4.5				
\		'	(14)										
				5-									
				- 6 -									
								CL					
				- 7 -									
				+ 8 -		Gray/brown							
∭ ss	3 00	М	5-15-11-1	6 <sub>- 9</sub> .					4.5				
3		16	(26)	\[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					4.5				
! \													
		1				10.0							
				10		End of Paring a	40.00						
				10		End of Boring a	ι 10.0 π.						
				10		WATER LEVEL & CAVE-		DATA					
<u> </u>	WATER	ENCO	DUNTERE	D DURII	NG D	WATER LEVEL & CAVE-	N OBSERVATION D		N:	NMR			WET C DRY F
			DUNTEREI			WATER LEVEL & CAVE-	N OBSERVATION [	COMPLETIO		NMR NMR			WET E DRY E WET U DRY E

WISCONSIN 3	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01			BOF	RIN	G ID	):	MP181
OF TRANSPOR	Mad	ison,	, WI 53704			WISDOT STRUCTURE ID:				AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR: AET	DRILLING CONTRACTOR PROJECT	NO:			3786	84.51	<b>4</b>	ASTING: 603349.169
DATE STAR				11/06/	14	REW CHIEF: MD	DRILL RIG:			OORDIN				WCC
DATE COMP	PLETED:			11/06/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON'				ERTICAL DATUM:
COUNTY:				Ozauk	е	og qc BY: <b>C. Wierzchowski</b>				TREAMB				N
STATION <b>218</b> 3	3+00Hi	ghA	OFFSET	50'	Rt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1	/4 1/4 SECTION:	S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
				- 1 -	11 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	12" TOPSOIL  1.0  SILTY CLAY, brown/dark brown, moi POSSIBLE FILL, hard	st, trace sand & gravel,						HSA	
SS 1	7	M 23	2-6-4-9 (10)	- 2 -				CL	4.5					
SS 2	3	M 21	3-7-8-7 (15)	- 4 -		5.0			4.5					
				- 6 -		5.0SILTY CLAY, light brown, moist, trac	e sand, hard	CL						
SS 3	23	M 16	5-15-9-17 (24)	- 9 -		10.0			4.5					
				10		End of Boring at	10.0 ft.							
						MATERIEVE: A CANE:	N ODOEDVATION 5	т.						
	/ATCS	-NO	NINTERE -	DI ID.	10.5	WATER LEVEL & CAVE-I				N 12 45				WET [ DRY [
7	$\wedge$	=NCC	UNTERED	DURIN	ıG DI	RILLING: NE   <u> </u> 超	CAVE - IN DEPTH AT C	OMPLETIC	N:	NMR				VVEI L
_			L AT COMP	V ==:-		NMR _	CAVE - IN DEPTH AFTE	-D 0 116::-		NMR				WET [ DRY [

Wao.	SCONSIN 35	350°	ept.	of Transp sman Blve	ortati	on	WISDO	T PROJECT	ID:			1229-04-01					RIN	G II	<b>)</b> :	MP182
ATTMEN	OFTRANSPOR	Mac	ison	, WI 53704	ĭ.			T STRUCTU	JRE ID:							AGE NO				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:				CONSU	LTANT PROJECT NO:			L	ATITUDE	E:		L	ONGITUDE:
RO	ADWAY N	NAME:				D	RILLING CONTRA	CTOR:		AET	DRILLI	IG CONTRACTOR PRO	DJECT NO:		N	ORTHIN	ig: <b>3788</b>	309.5	26 E	ASTING: <b>603329.24</b> 4
DA	TE STAR	TED:			11/07/	14 °	REW CHIEF:			MD	DRILL	RIG:			С	OORDIN	NATE SY	STEM:		wccs
DA	TE COMP	LETED:			11/07/	L	OGGED BY:			AET	HOLE S	IZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauk	L	OG QC BY:		: Wierzo	chowski	HAMM	R TYPE:				TREAME	BED ELE	VATION	l:	N/
STA	ATION 218/	1+25Hi	αhΛ	OFFSET	30'	Т	OWNSHIP:	RANGE		SECTION:		1/4 SECTION:	1/4 1/4	SECTION	S	JRFACE	ELEVA	TION:		10
			91.5 (																	
i i	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			E	and Ged	Rock Des ological ( or Unit / (	Origin	for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	6	M 19	2-6-5-6 (11)	- 1 -		1.0		ght brown/	gray mottle	ed, moi	st, trace sand, stif	f	CL-ML	2.0				HSA	
	SS 2	18	M 13	3-8-5-10 (13)	- 4 -		3.0 SILTY C	CLAY, ligh	nt brown, n	noist, trace	e sand	& gravel, hard			4.20					
OZAUKEE CO. GPJ 143 8/21/15					- 6 -									CL						
SOUNTENOZAVARENIASI ZSEGGOTI - 13 - SILVERSPRING DR. I O SI H BOIGN 17 ZSEGGOTI OZAVARE CO.GFO 143 8/7/19	SS 3	24	M 18	3-8-6-11 (14)	- 9 -		Brown		Fades	f Doring at	40.05				4.5					
4-D1-									Ena of	f Boring at	ιυ.υπ									
87229-0 87229-0							\/\ <b>\</b> T	FRIF	VFI 8. (	CAVE	N OP	SERVATION	ΠΔΤΛ							
Z	7 \_\_\/	ATFR	FNCC	OUNTERED	וום וח	NG D		NE	V LL CX \	CAVE-II		'E - IN DEPTH A			N.	NMR				WET DRY
Z SYUCZAUK	_			L AT COMF			NMR	146		125Z		'E - IN DEPTH A				NMR				DRY WET DRY
	-							nximata h	oundan: a	radual trans		tween in-situ soil la				INIVIE				DRY [
							resent the appro urement Record		ouriuary, gi	i auuai li afi	SILIOII DE	ween nr-snu son la	iyerə əriddi	ia ne ext	Jecieu.					

CONSIDER	A SCONSIN	WII	Dept.	of Transp	ortati	on	WISDOT PROJI	ECT ID:		1229-04-01					RING	G IE	):	MP183
143   Section   143   Sectio	OFTRANS	Mac	lison	, WI 53704	u. 1			CTURE ID:										1 of 1
AFT   More   M			AME:		I-	43												ONGITUDE:
11/05/14   11/05/14								А	ET		CT NO:				3751		98 E	ASTING: 603348.402
A   100					11/05/	14			MD						IATE SY	STEM:	·	wccs
SS   13   M   C/O   C	DATE CO	IPLETED:			11/05/	/14	OGGED BY:	A	EΤ	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
Section   Sect	COUNTY:				Ozauk	ee I	OG QC BY:	C. Wierzchow	ski	HAMMER TYPE:			ST	TREAME	ED ELE	VATION	: '	NA
Solit Resk Demonstration and Goological Origin for Each Major Unit / Comments   Solit Resk Demonstration and Goological Origin for Each Major Unit / Comments   Solit Resk Demonstration and Goological Origin for Each Major Unit / Comments   Solit Resk Demonstration and Goological Origin for Each Major Unit / Comments   Solit Resk Demonstration   Solit Resk Demonstratio	STATION 214	18+50H	ghB	OFFSET	50'	Rt	OWNSHIP: RAI	NGE: SECTI	ON:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SI	JRFACE	ELEVA	TION:		
SS 13 M 2-4-3-6 2 2 3.3 SILTY CLAY, brown, molest, little sand, trace gravel, very stiff  SS 16 M 3-4-3-8 4 SILTY CLAY, brown, molest, little sand & gravel, very stiff  SS 16 M 3-4-3-8 4 SILTY CLAY, brown, molest, little sand & gravel, very stiff  CL.M. 2.75  CL.M. 2.75  CL.M. 2.75  SILTY CLAY, brown, molest, little sand, trace gravel, very stiff  CL.M. 2.75  CL.M. 2.75  CL.M. 2.75  CL.M. 2.75  SILTY CLAY, brown, molest, little sand, trace gravel, very stiff  CL.M. 2.75  CL.M. 2.7	SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Geologic	al (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 13 M 2-4-3-8 2			28		1.	1 7	<i>i</i> ,										HSA	
SS 16 M 3-4-3-8 - 4	SS 1 SS	13	M	2-4-3-6 (7)			CLAYEY SILT gravel, very st		wn,	moist, little sand, trace	C	CL-ML	2.75					
SS 22 M 3-8-6-13 9	SS 2	16			- 4 -			brown, moist, trace	san	d & gravel, very stiff			3.25					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.					- 7 -							CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA	SS 3	22		3-8-6-13 (14)			10.0						3.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.					10-			End of Borin	g at	10.0 ft.								
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY							WATER I	_EVEL & CAV	E-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	VATER	ENCC	DUNTERED	DURII	NG D						ETIO	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	<u> </u>									-								WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	NOTES	: 1) Stratif	ication	lines between	soil type	es rep	resent the approximat	e boundary; gradual	trans									5

OED	SCONSIN.	350°	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT	· ID:	1229-04-01				RIN	G IE	):	MP184
MATHERS	OF TRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STRUCTU	JRE ID:				PAGE N				1 of 1
		OJECT NA	AME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:			LATITU				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	ECT NO:		NORTH	37	5334.	16 E	ASTING: <b>603346.63</b> 1
DAT	TE STAR	TED:			11/05/	14 C	REW CHIEF:	MD	DRILL RIG:			COORI	INATE S	YSTEM:		wccs
DAT	TE COMP	LETED:			11/05/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZ	ONTAL DA	ATUM:	V	ERTICAL DATUM:
COI	JNTY:				Ozauk	ee Lo	OG QC BY:	C. Wierzchowski	HAMMER TYPE:			STREA	MBED ELE	VATION	:	N/
STA	TION <b>215</b> (	)+00Hi	ghB	OFFSET	40'	Rt T	OWNSHIP: RANGE	: SECTION:	1/4 SECTION:	1/4 1/4 SEC	ΓΙΟΝ:	SURFA	CE ELEVA	ATION:		
L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	Soil / Rock Des and Geological ( ach Major Unit / (	Origin for		USCS / AASHTO Strength Qp	(tst) Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	11	M 28	2-3-2-4 (5)	- 2 -		1.0	CLAYEY SILT, gray/	brown, moist, trace sand,		2.	0			HSA	Qu = 1.5
	SS 2	14	M 19	2-3-3-5 (6)	- 4 -		Reddish brown				1.2	25				
OUT CAUREE CO. OT 145 ØZ 1/15					- 6 -		Very stiff				CL					
SOOTHER LAST SECTION OF TO SIT ORIGINALIZE SECTION OF TO SIT ORIGI	SS 3	18	M 18	3-7-5-9 (12)	- 9 -		10.0				3.2	25				
-101					10			End of Boring at	10.0 ft.							
±0-622-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\/EL	N OBSERVATION [	)						
Z See.	7 \ \	٨ΤΕΡ	ENICC	OUNTERED	י טו וטיי	אכי ביי		VEL & CAVE-II	CAVE - IN DEPTH AT		TION	NM				WET F
	_			L AT COMF			NMR	max	CAVE - IN DEPTH AT			NM				WET DRY DRY DRY DRY
N/								oundary: gradual trans	ition between in-situ soil laye				`			DRY
ğ (V							esent the approximate bi irement Recorded	oaridary, graduar irans	nuon between in-altu auli läyt	o oi iouiu Di	- CAPCUI	.u.				

#ISCONSIN	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP185
OF TRANS	<sup>®</sup> Mac	lison	, WI 53704	ŭ. 		WISDOT STRUCTURE ID:						AGE NO				1 of 1
	PROJECT NA	AME:		l-	43	CONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
ROADWA							ΕT	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3754	134.6	03	ASTING: <b>603340.795</b>
DATE STA				11/05/	14		ΙD	DRILL RIG:					NATE SY			wccs
	MPLETED:			11/05/	14	OGGED BY:	ΕT	HOLE SIZE:		4	in		ITAL DA			ERTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY:  C. Wierzchows	ski	HAMMER TYPE:					BED ELE		l:	NA
STATION 21	51+00Hi	ghB	OFFSET	25'	Rt T	OWNSHIP: RANGE: SECTIO	ON:	1/4 SECTION:	1/4 1/4 SE	CTION	S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				+ 1 -	1/2 1/2 1/2 1/2	12" TOPSOIL  1.0  SILTY CLAY, red/gray mottled, mo	-:	de la constantina de							HSA	A
SS 1		M 26	1-5-3-6 (8)	- 2-		SILTY CLAY, red/gray motiled, mc	JISI,	uace sand, sun			2.0					
SS 2	3 13	M 19	2-6-4-9 (10)	- 4 -		Brown, very stiff					2.75					
				- 6 - - 7 -						CL						
SS 3		M 19	4-9-7-11 (16)	- 9 -		Gray/brown, trace gravel  A-6(6)					4.0	38	25			
			I	<del>' 10</del>	1//	End of Boring	g at	10.0 ft.			1				1	1
						WATER LEVEL & CAVE		N OBSERVATION D	DATA							
			DUNTERED					CAVE - IN DEPTH AT				NMR				WET DRY
			L AT COMF			14001		CAVE - IN DEPTH AF				NMR				WET DRY
NOTES						resent the approximate boundary; gradual tr urement Recorded	rans	ition between in-situ soil laye	rs should	be ex	pected.					

· OED	SCONSIN 30	350°	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP186
HTMEN	OFTRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:						AGE NO:				1 of 1
		OJECT NA	ME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:			ORTHIN	3755	36.5	15   [	ASTING: 603325.338
	TE STAR				11/05/	14	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
	TE COMP	LETED:			11/05/	14	OGGED BY:	AET	HOLE SIZE:		<b>4</b> i	in	ORIZON				ERTICAL DATUM:
	UNTY:				Ozauke	e	DG QC BY: C. Wierzo	howski	HAMMER TYPE:						VATION		NA
STA	110N 2152	2+00Hi	ghB	OFFSET		0	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SU	JRFACE	ELEVA	TION:		
i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geo Each Majo	ock Des ological ( or Unit / (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	15	M 16	2-5-3-8 (8)	- 1 -	\(\frac{\partial \text{\ti}\text{\texi}\text{\text{\texi}\text{\text{\texit}\text{\texit{\texit}\text{\texit{\texit{\text{\texit}\texi{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\ti	12" TOPSOIL  1.0  SILTY CLAY, gray/brown, n	noist, trace	e sand & gravel, very stiff			2.90				HSA	
	SS 2	17	M 16	2-8-5-9 (13)	- 4 -		Hard					4.2					
11 OZAUKEE CO.GPJ 143 B21/15	I				- 6 - - 7 -		Very stiff				CL						
200/NIESOZANKELI-JA3/1229-04-01 - 143 - SIVJEKSPRING DR. 10 STH 80/GIN 1722-04-01 (0ZAUKEE 0D.GPJ - 143 8/2/15	SS 3	23	M 18	4-7-5-10 (12)	- 9 -		10.0	Davier	40.06			4.0					
401 - 14					. •		End of	Boring at	10.0 π.								
31229-0							WATER LEVEL & C	7.A\/F.II	N OBSERVATION D	ΔΤΔ							
Z	7 w	ATFR	FNCC	OUNTERED	DURIN	ום או			CAVE - IN DEPTH AT		FTION	۸.	NMR				WET DRY
Siozauk Z	_			L AT COMF			NMR	184	CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
	-						esent the approximate boundary; gr	adual trans					. TIVIL				DRY [
							rement Recorded			S S. ISSIG D	. J UNPO	. J.Ju.					

OED.	SCONSIN 35	350°	ept.	of Transp sman Blv	ortati	on	WISDOT PRO	OJECT ID:		1229	-04-01				BOF		G IE	):	MP189
HTIMES	OFTRANS	Mad	ison	, WI 53704				RUCTURE ID:							AGE NO:				1 of 1
		OJECT NA	ME:		I-	43	CONSULTANT:			CONSULTANT PRO					ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:					RILLING CONTRACTO	R:	AET	DRILLING CONTRA	ACTOR PROJE	CT NO:			ORTHIN	3762	235.17	76 E	ASTING: 603335.227
DAT	TE START	ΓED:			1/23/	15	CREW CHIEF:		MD	DRILL RIG:				С	OORDIN	IATE SY	STEM:		wccs
DAT	TE COMP	LETED:			1/23/	15	OGGED BY:		AET	HOLE SIZE:			4	in	ORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COI	JNTY:			1	Ozauk	L	OG QC BY:	C. Wierz	zchowski	HAMMER TYPE:				S	TREAME	BED ELE	VATION	:	NA
STA	TION 2159	+00Hi	ghB	OFFSET	25'	Lt	OWNSHIP: F	RANGE:	SECTION:	1/4 SEC	CTION:	1/4 1/4 SI	ECTION:	S	URFACE	ELEVA <sup>*</sup>	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Ge Each Ma	Rock Des eological ( jor Unit / (	cription Origin for Comments			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	4	M 177	1-4-2-5 (6)	- 1 -		3.0											HSA	
	SS 2	20	M 17	3-5-4-7 (9)	- 4 -		CLAYEY SIL	LT, light brown	n, moist, trad	ce sand, stiff				1.75					
OZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -								CL-ML						
DOUNTIES/OZAUKEEI-43/1226-04-01 - 143 - SILVERSPRING DR TO STH ØNGINTIZ220-04-01 OZAUKEE CO GPJ 143 827/15	SS 3	17	M 17	4-8-4-10 (12)	- 9 -		Brown, hard							4.20					
+01-143					10			End o	of Boring at	10.0 ft.									
11229-04							\\\\\\\	)   Ε\/Ε  Ω	CΔ\/E.II	N OBSERV	ΔΤΙΩΝ Γ	ΊΔΤΛ							
Z KEEN439	7 \ \	ΔΤΕΡ	ENICC	DUNTERED	ייםו וח י	אופ ה			CAVE-II	CAVE - IN D			I ETIC	NI:	NMR				WET DRY
SYOZAUK	_			L AT COMF			NMR		■   TEĞE	CAVE - IN E					NMR				DRY DRY DRY DRY
NO PAGE							resent the approxim	nate boundarv	aradual trans										DRY [
Ö.							urement Recorded		g. 44441 li Ul li		Jon laye	. J JiiJuiu	~~ on	. JJ.OU.					

Misconsil	€ 350	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G II	<b>D</b> :	MP193
OFTRANS	* Mac	lison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:						AGE NO				1 of 1
	PROJECT N	AME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADWA						RILLING CONTRACTOR:	ΞT	DRILLING CONTRACTOR PROJEC	CT NO:			IORTHIN	3758	358.4	<b>24</b>	ASTING: <b>603133.033</b>
DATE ST				12/17/	14 C	REW CHIEF:	ID	DRILL RIG:				COORDIN				wccs
DATE CO	MPLETED:			12/17/	14	OGGED BY:	T	HOLE SIZE:		4	in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUNTY				Ozauk	L	OG QC BY:  C. Wierzchowsl	ki	HAMMER TYPE:			S	TREAME	BED ELE	VATION	l:	N/
STATION <b>21</b>	55+20H	ghC	OFFSET	25'	Rt	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SE	CTION	: S	URFACE	ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geologica Each Major Unit	il C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				- 1 -		1.0 SILTY CLAY, light brown, moist, tra	ace	coarse sand, stiff							HSA	<b>A</b>
SS 1		M 22	0-3-1-3 (4)	- 2 -		Trace sand, hard					1.5					
SS 2	5 17	M 18	1-5-3-7 (8)	- 4 -							4.25	j				
				- 6 -						CL						
SS 3		M 17	6-12-9-15 (21)	- 9 -		Brown, trace sand		40.08			4.5					
				. •		End of Boring	at	10.0 π.								
						WATER LEVEL & CAVE		N ORSERVATION D	ΔΤΔ							
$\overline{\mathbf{v}}$	٨/٨٢٢	ENIC	DUNTERED	יוםו וח י	וכ ה			CAVE - IN DEPTH AT		ETIC	JVI.	NMR				WET [
			L AT COMF				<b>■</b> 254	CAVE - IN DEPTH AT				NMR				WET DRY DRY DRY DRY
						NMR resent the approximate boundary; gradual tra	=									DRY
NOTES						resent the approximate boundary; gradual tra urement Recorded	ai IS	nion between in-situ soli läyel	s sriouid	ne ex	occied.	•				

Mead of the state	WI E	ept. Kin	of Transp sman Blv	ortation	on	WISDOT PROJECT ID:	1229-04-01					3 ID:	MP194
WISDOT PF	Mad	ison	, WI 53704	4	1	WISDOT STRUCTURE ID:  ONSULTANT:	CONCLUTANT PROJECT NO.			AGE NO:			1 of
		MVIE:		I-	43		CONSULTANT PROJECT NO:	۸۰					
ROADWAY						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT NO	):		ORTHING	37593	35.143	EASTING: 603057.54
DATE STAR				12/17/	14	REW CHIEF: MD	DRILL RIG:				ATE SYS		WCC
DATE COM	PLETED:			12/17/	14	OGGED BY:	HOLE SIZE:	4 i	n		TAL DATI		VERTICAL DATUM:
COUNTY:				Ozauk	ee	OG QC BY:  C. Wierzchowski	HAMMER TYPE:				ED ELEV		N/
STATION <b>215</b>	6+00Hi	ghC	OFFSET	47'	Lt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1	/4 SECTION:	Sl	JRFACE	ELEVATI	ION:	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	9	M 18	1-3-2-5	- 1 -		1.0  CLAYEY SILT, light gray/brown mottle stiff	ed, moist, trace sand, very		2.6			HS	SA
SS 2	20	M 18	2-7-5-10 (12)	- 4 -		Light brown, trace gravel			3.75				
				- 6 -				CL-ML					
SS 3	23	M 18	4-12-10-1 (22)	6 <sub>-9</sub> -		Gray/brown, trace gravel	10.0 ft		3.5				
						End of Boring at	IU.U II.						
						WATER LEVEL & CAVE-I	N OBSERVATION DAT	Α					
	/ATED	FNCC	DUNTERED	) Di Ibir	IG D		CAVE - IN DEPTH AT COI		J·	NMR			WET [ DRY [
$\triangle$ $\wedge$	IAIPP	_, , , , , , ,	/ U : 4 : L :   \L'L	, DOINI	· O D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2/17 11 DEI 111 AT COI		•.	· AIAIL /			DRY [
			L AT COM	DI ETIO	NI:	NMR	CAVE - IN DEPTH AFTER	U HUI IDG	. 1	NMR			WET [ DRY [

· 080	SCONSIN.	WI E	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:	1229-04-01					G IE	):	MP196
HTTMERS	OF TRANS	Mad	ison	, WI 53704			WISDOT STRUCTURE ID:	Loonous Tarres and a series			AGE NO			1.	1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:	27.110		ATITUDI				ONGITUDE:
	DWAYN						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJE	CTNO:		IORTHIN	3762	288.44	14   <sup>E</sup>	ASTING: 603123.901
	E START				12/17/	14	REW CHIEF: MD	DRILL RIG:			OORDIN				wccs
	E COMP	LETED:			12/17/	14	OGGED BY:	HOLE SIZE:		4 in	IORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:  C. Wierzchowski	HAMMER TYPE:					VATION	:	NA
STA	TION <b>2159</b>	+50Hi	ghC	OFFSET	35'	Rt T	OWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION	1: S	URFACE	ELEVA	TION:		
	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	19	M 17	1-6-4-10 (10)	- 1 -		12" TOPSOIL  1.0  SILTY CLAY, light brown, moist, trace	e sand, hard		4.5				HSA	
	SS 2	23	M 15	4-10-7-13 (17)	- 4 -				CL	4.5					
04-01 OEAONALE COCON 0 140 OE 010					- 6 -		8.0								
45 - SILVENSTRING DR 10 SITI BONSIN IN 1228-04-01 OZ	SS 3	24	M 15	4-9-6-12 (15)	- 8 - - 9 -		SILTY CLAY TO CLAYEY SILT, gray sand, very stiff  10.0  End of Boring at		CL-M	L 2.7					
1							End of Boiling at	10.0 It.							
							WATER LEVEL & CAVE-I	N OBSERVATION D	DATA						
	7 W	ATER	ENC	DUNTERED	DURIN	NG DI		CAVE - IN DEPTH AT		ON:	NMR				WET DRY
7	_			L AT COMP			NMR	CAVE - IN DEPTH AF			NMR				WET DRY DRY
- 1							resent the approximate boundary; gradual tran								ם ואנו
Š							urement Recorded								

OEDW WISCO	NSIN. 30IL	WI E	ept.	of Trans	portatio	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP199
AMON OF T	RANSO	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCULTANT DDG (TOT VO			AGE NO:			1	1 of 1
		DJECT NA	WE:		I-	43	ONSULTANT:	CONSULTANT PROJECT NO:	OT NO.		ATITUDE				ONGITUDE:
	WAY N						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJEC	NO:			3766	87.64	8   E/	ASTING: 603097.121
	START				12/17/	14	REW CHIEF: MD	DRILL RIG:			OORDIN			1,	WCCS
		ETED:			12/17/	14	OGGED BY:	HOLE SIZE:	4 i	n	ORIZON			VE	ERTICAL DATUM:
COUN				OFFSET	Ozauk	ee	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE:	THE ALL DESTROY		JRFACE		VATION:		NA.
STATIC	2163	+50Hi	ghC	OFFSET	26'	Rt '	OWNSHIP: RANGE. SECTION.	1/4 SECTION:	1/4 1/4 SECTION:	30	JRFACE	ELEVA	I ION.		<u> </u>
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	12	M 22	1-3-2-4 (5)	- 1 -		1.0  CLAY LOAM, red/gray/brown mottled	moist, stiff	CL-ML	1.6			F	<del>I</del> SA	
	SS 2	10	M 24	2-3-3-5 (6)	- 4 -		3.0 CLAYEY SILT, light brown/gray/brown medium sand, soft	n mottled, moist, trace		0.5					
					- 6 -				CL-ML						
	SS 3	21	M 18	5-11-7-1 <sub>4</sub> (18)			Gray/brown, trace fine sand, very stiff			4.0					
					.0		End of Boring at	10.0 ft.							
							WATER LEVEL & CAVE-I	N OBSERVATION D	ATA						
$\nabla$	W	ATER I	ENC	DUNTEREI	D DURIN	NG D		CAVE - IN DEPTH AT		<b>N</b> :	NMR				WET DRY
<u>A</u>	_			L AT COM			NMR <b>I</b>	CAVE - IN DEPTH AFT			NMR				DRY L WET C DRY C
							resent the approximate boundary; gradual trans	L							DKY L
							urement Recorded		20 0Apo						

OED .	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RIN	G II	<b>)</b> :	MP200
HTTMERS	OF TRANSPOR	Mad	ison	, WI 53704	u.  -		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROA	ADWAY N	IAME:				D	RILLING CONTRACTOR:	ĒΤ	DRILLING CONTRACTOR PROJEC	CT NO:		N	ORTHIN	G: <b>3770</b>	)41.2	19	ASTING: 603073.108
DAT	E STAR	ΓED:			12/17/	14 °	REW CHIEF:	ID	DRILL RIG:			C	OORDIN	IATE SY			wccs
DAT	E COMP	LETED:			12/17/	L	OGGED BY:		HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COL	JNTY:				Ozauk	L	og qc BY:  C. Wierzchowsl		HAMMER TYPE:				TREAME	ED ELE	VATION	:	N/A
STA	TION 2167	′+00Hi	ahD	OFFSET	Ozaaki		OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 S	ECTION:	s	URFACE	ELEVA	TION:		147-
			giib						l .	-							
L de la company	SAMPLE I TE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geologica Each Major Unit	al C	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	19	M 27	1-3-2-3 (5)	- 1 -		36" TOPSOIL									HSA	
	SS 2	20	M 20	1-3-3-5 (6)	- 4 -		CLAY LOAM, gray/brown/reddish b				CL-ML	2.0					
-0401 OZAUKEE CO.GPJ 143 8/21/16					- 6 -		CLAYEY SILT, light brown/gray mo stiff  Dark brown to black, little gravel, sti		d, moist, trace sand, very		CL-ML						
3 - SILVERSPRING DR TO STH 60/GINT/1228-	SS 3	5	M 23	3-9-6-10 (15)	- 9 -		10.0					1.25					
+101 +					10		End of Boring	at '	10.0 ft.								
1229-04							WATER LEVEL & CAVE	: IN	I OBSEDI/ATION D	ΛΤΛ							
Z KEN143.	7 \ \	٨ΤΕΡ	ENICC	אוואדבייביי	י רו ורוי	10.0			CAVE - IN DEPTH AT		I ETIC	NI.	VIV 4D				WET F
⋖ ——				DUNTERED									NMR				WET DRY DRY DRY DRY
NTIES/OZ				L AT COMF				en o	CAVE - IN DEPTH AFT				NMR				DRY
							resent the approximate boundary; gradual tra urement Recorded	ari\$	ıuon between iri-sitü soli läyel	ธ ธ <i></i> กเดนได้	ue exp	Jecied.					

March   Marc	Wisco	NSIN.	WI [	Dept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP201
143   1217/14	HTTM OF T	RANSO	Mad	ison													1 of 1
Martin   M				ME:		I-	43				TNO						
1217174   00000000									AET		T NO:			3772	240.73	32   <sup>E</sup>	ASTING: 603086.849
Country   Coun						12/17/	14		MD								WCC
Care   Continue   Care   Car			LETED:			12/17/	14		AET		4	in					ERTICAL DATUM:
2   2   2   2   2   2   2   2   2   2						Ozauk	ee	C. Wierzo	howski								N/
SS 13 M 1-3-2-4 2 SIT to stiff to stiff 1.5 SILTY CLAY, brown, moist, trace sand & gravet, very stiff 1.5 SILTY CLAY, brown, moist, trace sand & gravet, very stiff 1.5 SILTY CLAY, brown, moist, trace sand, stiff 1.5 SILTY	STATI	ON <b>2169</b>	+00Hi	ghD	OFFSET		ο   Τ	DWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	S	JRFACE	ELEVA	TION:		I
SS 12 M 1-3-2-4 2	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ged	ological C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
Very stiff  SS 21 M 3-9-7-12 9 A-6(4)  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATE			13	M 22	1-3-2-4 (5)		<u>1</u> /21/	1.0 CLAYEY SILT, dark brown/g	gray, mois	t, trace sand & gravel, very	CL-ML					HSA	
Very stiff  SS 21 M 3-9-7-12 9 A-6(4)  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET CAVE-IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	12	M 28	2-3-3-4 (6)	- 4 -		5.0_ SILTY CLAY, brown, moist,	trace san	d, stiff							
SS 21 M 3-9-7-12 9 A-6(4)  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						- 7-		Vanadiff			CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	21		3-9-7-12 (16)	- 9 -		A-6(4)	D-sir	40.05		3.4	35	21			
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR       WET DRY         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.						. •		End of	Boring at	10.0 π.							
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY         ✓       WATER LEVEL AT COMPLETION: NMR       ☑       CAVE - IN DEPTH AFTER 0 HOURS: NMR       NMR       WET DRY         NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								WATER LFVFI & (	CAVF-II	N OBSERVATION DA	ATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\nabla$	W	ATER	ENCC	DUNTERED	DURIN	NG DI					N:	NMR				WET [ DRY [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		_															WET [ DRY [
CONTRACTOR OF THE CONTRACTOR O									radual trans	ition between in-situ soil layers	should be exp	ected.					

OF NISCONSIN	WI [	Dept. 2 Kin	of Transı sman Blv	portatio	on	WISDOT PROJECT ID:		1229-04-01					G ID	:	MP202
OFTRANS	Mad ROJECT NA	lison	, WI 5370	4	1	WISDOT STRUCTURE ID:		CONCULTANT PROJECT V.C.			AGE NO:			LONG	1 of 1
		AME:		1-4	13	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE			LONGITUE	DE:
ROADWAY						RILLING CONTRACTOR:	ET	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3774	40.06	EASTING:	603103.162
DATE STA				12/17/	14		1D	DRILL RIG:			OORDIN				wccs
DATE COM	IPLETED:			12/17/	14	OGGED BY:	ET	HOLE SIZE:	4	in	ORIZON			VERTICAL	. DATUM:
STATION	′1+00Hi	ah D	OFFSET	Ozauke	e	OG QC BY:  C. Wierzchows OWNSHIP: RANGE: SECTION	ki 🗆	HAMMER TYPE: 1/4 SECTION: 1/4 1/4 S	ECTION:		JRFACE		VATION:		NA
21/		gnb			U										
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock D and Geologica Each Major Unit	al Oi	rigin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					$\frac{\overline{J_1 I_1^{\Lambda}}}{\overline{J_1 J_1^{\Lambda}}}$	12" TOPSOIL							F	ISA	
				1 -		1.0 SILTY CLAY, light brown/brown, m	noist,	trace sand, stiff							
SS 1	12	M 20	2-4-3-5 (7)	- 2 -						2.0					
				- 3 -		Hard									
SS 2	22	M 16	3-7-4-9 (11)	- 4 -						4.5					
				5-											
				- 6 -					CL						
				- 7 -											
				8 -											
SS 3	24	M 17	4-11-8-14 (19)	<sup>‡</sup> - 9-						4.5				Qu =	3.9
				10	<u> </u>	10.0 End of Boring	at 1	0.0 ft.							
						WATER LEVEL & CAVE									
<u></u>								COULTVATION DATA							WET F
	VATFR	ENCC	)UNTERFI	) DURIN	IG D	RILLING: NF	<u>5</u> 4 I	CAVE - IN DEPTH AT COME	LETIC	N.	NMR				<u> </u>
<b>▼</b>   v	VATER VATER		L AT COM				<b>■</b>	CAVE - IN DEPTH AT COMP CAVE - IN DEPTH AFTER 0			NMR NMR				WET DRY DRY DRY DRY

A / 5	3502	ept. 2 Kin	of Transp sman Blv	ortatio d.	n∟	WISDOT PROJECT ID:	1229-04-01				RING	iD:	MP203
AUCD OF TRANSPORT	Mad	ison	, WI 53704	Ĭ.	0.5	WISDOT STRUCTURE ID:	CONCULTANT PROJECT VIC			GE NO:			1 of
WISDOT PR		ME:		I-4	3	NSULTANT:	CONSULTANT PROJECT NO:			TITUDE:			LONGITUDE:
ROADWAY						ILLING CONTRACTOR: AET	DRILLING CONTRACTOR PROJECT	NO:		RTHING	377	639.4	EASTING: 603119.47
DATE STAR				12/17/1	4	EW CHIEF: MD	DRILL RIG:				ATE SYST		WCC
DATE COMP	PLETED:			12/17/1	4	GGED BY:	HOLE SIZE:	4 in			AL DATU		VERTICAL DATUM:
COUNTY: STATION 217	3+00Hi	ahD	OFFSET	Ozauke	е	G QC BY:  C. Wierzchowski  WNSHIP: RANGE: SECTION:	HAMMER TYPE:  1/4 SECTION: 1	1/4 1/4 SECTION:			ELEVATION		N/
		<u> </u>											
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological 0 Each Major Unit / 0	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
				, ,	1 1 <sub>2</sub> 3	12" TOPSOIL						HS	SA
				1		1.0 SILTY CLAY, light brown/gray mottlec	, moist, trace sand, hard						
ss	12	M	1-6-4-8	- 2 -					.5				
1		17	(10)										
				3 }									
SS 2	18	M 16	3-8-6-10 (14)	- 4 -				4	.5				
				- 5-				CL					
				- 6									
				- 7									
				8 -									
SS 3	20	M 17	4-11-8-14 (19)	9 -				4	.25				
				10		10.0 End of Boring at	10 0 ft						
						WATER LEVEL & CAVE-II							14/2
\ /   \ \A	ATER		DUNTERED			<u> </u>	CAVE - IN DEPTH AT C			MR			WET [ DRY [ WET [ DRY [
_				PLETION	. N	NMR J	CAVE - IN DEPTH AFTE			MR.			VVEI [

· OED	SCONSIN 30	350°	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJEC	CT ID:	1229-04-0	)1					G IE	):	MP204
HTMEN	OF TRANSPOR	Mac	lison	, WI 53704	ĭ.		WISDOT STRUC	TURE ID:					AGE NO:				1 of 1
		OJECT NA	AME:		l-	43	ONSULTANT:		CONSULTANT PROJECT N				ATITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET		ROJECT NO:			ORTHIN	3785	37.99	97 E	ASTING: 603137.08
	TE STAR				12/17/	14	REW CHIEF:	MD					OORDIN				wccs
	TE COMP	LETED:			12/17/	14	OGGED BY:	AET			4 i	n 📗	ORIZON				ERTICAL DATUM:
	UNTY:				Ozauk	ee	OG QC BY:	C. Wierzchowski							VATION		N/
STA	110N 2182	2+00Hi	ghD	OFFSET	20'	Lt T	OWNSHIP: RANG	GE: SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SL	JRFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock De and Geological Each Major Unit /	Origin for		USCS / AASHTO	Strengtn യp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	13	M 17	0-5-2-6 (7)	- 2 -		1.0	ght brown/gray mottle	d, moist, trace sand &			4.5				HSA	
	SS 2	22	M 17	3-8-6-12 (14)	- 4 -							4.5					
1 OZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -		Brown, very stif	<del>-</del>			CL						
200/NIESOZANKELI-JA3/1229-04-01 - 143 - SIVJEKSPRING DR. 10 STH 80/GIN 1722-04-01 (0ZAUKEE 0D.GPJ - 143 8/2/15	SS 3	24	M 17	5-11-7-12 (18)	- 9 -		Brown, very sur				,	3.25					
- 101					10			End of Boring a	10.0 ft.								
1229-04							\/\ATED		N OBSERVATIO	N DATA							
Z KEN 433	7 \	ΔΤΕΡ	ENICO	DUNTERED	יוםו וח נ	ופ הי		EVEL & CAVE-			ETION	ı.	NMR				WET DRY
Stozauk	_			L AT COMF			NMR		CAVE - IN DEPTH				NMR				DRY DRY DRY DRY
	-							boundary: aradual tran	sition between in-situ soil				VIVII				DRY [
							urement Recorded			. a, c. o or louid i	UNPC	J.JU.					

OED WIS	CONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT	Γ PROJEC	CT ID:			1229-04-01	1			BO		G II	<b>)</b> :	MP205
MATTHERY	FTRANSPOR	Mad	lison	, WI 53704	u. 			T STRUCT	TURE ID:							AGE NO				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:					TANT PROJECT NO:				ATITUDI				ONGITUDE:
ROA	DWAY N	IAME:				D	RILLING CONTRA	CTOR:		AET	DRILLING	G CONTRACTOR PR	OJECT NO:		١	IORTHIN	ig: <b>3786</b>	38.0	08 E	ASTING: 603119.141
DATE	START	TED:			12/12/	14	REW CHIEF:			MD	DRILL RI	G:			C	COORDIN				wccs
DATE	COMP	LETED:			12/12/	L	OGGED BY:			AET	HOLE SIZ	ZE:			in ⊦	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COU	NTY:				Ozauk	L	OG QC BY:		C Wior	zchowski	HAMMER	R TYPE:				TREAME	BED ELE	VATION	l:	N/A
STAT	TION 2183	3+00Hi	ahD	OFFSET	38'	Т	OWNSHIP:	RANG		SECTION:		1/4 SECTION:	1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		147-
	2100		9.1.5												Т					
SAMPI E TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)				and Ge	Rock Des eological ( ijor Unit /	Origin f	or		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	17	M 28	1-3-2-4 (5)	- 1 -	15 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<sup>7</sup> 41.0		jht brown/s	gray mottled	d, moist,	trace sand, very	у		2.5				HSA	
	SS 2	16	M 20	1-4-3-5	- 3 -										2.25					Qu = 1.7
OZNOREC CO.GFO 145 GZ 175					- 6 -		Gray/bro	own, har	rd					CL						
OOMTIGOOGAAREE HAD ZESPOND 1143 'SILVENSTRING AN 'O SIN OOMTILIZESPOND CAAAREE CO.O'O' 1449 SEZIND  S. 1/4 1/5	SS 3	24	M 14	5-12-10-16 (22)	3 <sub>- 9</sub> -		10.0								4.5					
1									End o	of Boring at	10.0 ft.									
177							\ <b>\</b> / \ T	EDIF	=\/⊏I	CAVE	N OP	SERVATION	1 D V T V							
	14/	ATED	ENIC	DUNTERED	י רו וריי	VIC P		ER LE	_v⊏L &	CAVE-I	1				)NI-	NMR				WET F
	+							INE		<u> </u>	+	E - IN DEPTH								WET DRY DRY DRY DRY
<u>7</u>				L AT COMF			NMR	ovir t-	hour-d	arad::21 f::		E - IN DEPTH				NMR				DRY
NO.							resent the appro urement Record		ьоипааry; <sub>!</sub>	yrauuai tran	siliori det	ween in-situ soil la	ay <del>e</del> rs snou	и ре ех	pecied.					

Mary of	3503	ρερι. 2 Kin	of Transp sman Blv	ortatio d.	on _	WISDOT PROJECT ID:	1229-04-01					3 ID:	MP206
WISDOT PF	Mad	ison	, WI 53704	ī		WISDOT STRUCTURE ID:	CONSULTANT DROJECT NO.			AGE NO:			1 of
		MVIE:		J-4	13	DNSULTANT:	CONSULTANT PROJECT NO:			ATITUDE			
ROADWAY						RILLING CONTRACTOR:  AET	DRILLING CONTRACTOR PROJECT NO:				3787	38.006	EASTING: 603122.20
DATE STAR				12/12/	14	REW CHIEF: MD	DRILL RIG:				ATE SYS		WCC:
DATE COM	PLETED:			12/12/	14	OGGED BY:	HOLE SIZE:	4	in		TAL DAT		VERTICAL DATUM:
COUNTY:			OFFSET	Ozauke	e	OG QC BY:  C. Wierzchowski  DWNSHIP: RANGE: SECTION:	HAMMER TYPE:	05051011			ED ELEV		N/
218	4+00Hi	ghD	OFFSET	35'	Lt	DWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4 1/4	SECTION:	I St	JRFACE	ELEVAT	ION:	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	5	M 32	1-3-3-3 (6)	- 1 - - 2 -		36" TOPSOIL						H	SA
SS 2	11	M 22	1-3-3-5 (6)	- 3 -		3.0 SILTY CLAY, reddish brown, moist, li	tle sand, trace gravel, stiff	CL	2.0				
				- 6 -		SILTY CLAY, light brown to brown, m hard	oist, trace sand & gravel,	CL					
SS 3	24	M 17	4-10-7-12 (17)	9 -		10.0	10.0 <del>f</del>		4.5				
						End of Boring at	IV.V II.						
						WATER LEVEL & CAVE-I	N OBSERVATION DATA						
						RILLING: NE	CAVE - IN DEPTH AT COM						WET [
<u> </u>	/ATER	ENCC	UNTERED	DURIN	IG DE	TILLING. INC	DAVE - IN DELITION ON	PLETIO	N:	NMR			WET [ DRY [ WET [ DRY [

OEP.	SCONSIN 35	350°	ept.	of Transp sman Blv	ortatio	n	WISDOT PROJECT	ID:	1229-04-01				3OF		G IE	):	MP207
ATTRICK	OFTRANSPOR	Mad	lison	, WI 53704	۵. ا		WISDOT STRUCTU	JRE ID:					GE NO:				1 of 1
		OJECT NA	ME:		<b> -</b> 4	13	ONSULTANT:		CONSULTANT PROJECT NO:				TITUDE				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJ	ECT NO:			ORTHIN		37878	34 E	ASTING: <b>603132.229</b>
	TE STAR				12/12/	14	REW CHIEF:	MD	DRILL RIG:				OORDIN				wccs
	TE COMP	LETED:			12/12/	14	OGGED BY:	AET	HOLE SIZE:		4 ir	า	ORIZON'				ERTICAL DATUM:
	UNTY:				Ozauke	e		C. Wierzchowski	HAMMER TYPE:				REAMB			:	NA
STA	ATION <b>218</b> 4	1+46Hi	ghD	OFFSET	25'	Lt T	DWNSHIP: RANGE	: SECTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SU	IRFACE	ELEVA	TION:		
	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	E	Soil / Rock Des and Geological C ach Major Unit / C	Origin for		USCS / AASHTO	Sulengui යා (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	24	M 15	1-3-2-3 (5)	- 1 -		1.0	wn, moist, trace san	d & gravel, very stiff		:	2.5				HSA	A
	SS 2	24	M 18	3-6-5-9 (11)	- 4 -		Hard				4	4.5					
4-01 OZAUKEE CO.GPJ 143 8/21/15					- 6 -						CL						
SOUNTESIOZAUKEEL43/125-04-01 - 1.43 - SILVERSPRING DR TO STH BÜGIN 1/122-04-01 OZAUKEE CO.GFJ 1.43 BZ/1/15	SS 3	24	M 18	5-10-8-11 (18)	- 9 -		10.0				,	4.5					
4-01-143					10			End of Boring at	10.0 ft.								
81229-0v							WATERIE	\/FL & CΔ\/F_II	N OBSERVATION I	ΠΑΤΔ							
Z Kee 143	7 \_\_\/	ATFR	FNCC	DUNTERED	DIIBIN	וט טו		VEL & CAVE-II	CAVE - IN DEPTH AT		TION		NMR				WET DRY
Stozauk	_			L AT COMF			NMR		CAVE - IN DEPTH AT				NMR				DRY WET DRY
N N	-							oundary; gradual trans	sition between in-situ soil laye								טאץ ר
							rement Recorded	. , , g									

ABO.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJE	ECT ID:	1229-04-01				BOF		G IE	):	MP208
HALIMEN	OF TRANSPOR	Mad	lison	, WI 53704	u. !		WISDOT STRU	CTURE ID:					AGE NO				1 of 1
		OJECT NA	ME:		I-4	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDI				ONGITUDE:
	ADWAY N					DI	RILLING CONTRACTOR:	AET		JECT NO:			IORTHIN	3877	723.6	55 E	ASTING: 603164.454
DA	TE STAR	ΓED:			1/27/	15 CI	REW CHIEF:	MD				C	OORDIN	NATE SY	STEM:		wccs
DA	TE COMP	LETED:			1/27/	15	OGGED BY:	AET	HOLE SIZE:		4	in	IORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	UNTY:				Ozauke	LC	OG QC BY:	C. Wierzchowski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	N/
STA	TION <b>2274</b> +	-00CT	НСА	OFFSET	100'	Rt T	OWNSHIP: RAN	NGE: SECTION:	1/4 SECTION:	1/4 1/4 SE	ECTION:	S	URFACE	ELEVA:	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		Soil / Rock Des and Geological Each Major Unit /	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	12	M 24	0-4-1-4 (5)	- 1 -		1.0	orown, moist, trace sar	nd, stiff			2.0				HSA	
	SS 2	13	M 24	2-4-3-7 (7)	- 4 -		Very stiff					3.25					
4.01 OZAUKEE CO.GPJ 143 921/15					- 6 -		Hard				CL						
DOUNTIESIOZAUKEEL43/1229-04-01 - 143 - SILVERSPRING DR TO STH ØNGINNT228-04-01 OZAUKEE OD GPJ 143 82/1/5	SS 3	24	M 16	4-12-7-15 (19)	- 9 -		10.0		10.04			4.5					
4-01-					.5			End of Boring at	10.0 ft.								
41229-04							\\/\\\ TED	F\/FI & C^\/E !	N OBSERVATION	ΠΔΤΛ							
Z   KEE  43	7 \_\_\	ATFR	FNC	DUNTERED	DIIBIN	וט טו		LEVEL & CAVE-I	CAVE - IN DEPTH A		FTIC	N.	NMR				WET DRY
Siozauk	_			L AT COMF			NMR	<u> </u>	CAVE - IN DEPTH A				NMR				DRY DRY DRY DRY
N/	-							e boundarv: gradual tran	sition between in-situ soil la								DRY [
ğ (**)							esent the approximati irement Recorded		oon botteen in oliu soli laj	S. S. S. IOUIU	~~ <del>~</del>						

A DEPM	ONSIN. 30E	WI E	ept. Kin	of Trans sman Bl	portati vd.	on	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP209
AMON OF	TRANSTO	Mad	ison	, WI 5370	)4		WISDOT STRUCTURE ID:		CONCULTANT DOO 1507 VO			AGE NO:			1.	1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				
	WAY N						PRILLING CONTRACTOR:	T	DRILLING CONTRACTOR PROJEC	T NO:		ORTHIN	388	3076.3	35 E	ASTING: <b>603054.54</b>
	START				1/27/	15	CREW CHIEF:	D	DRILL RIG:				IATE SY			wccs
		LETED:			1/27/	15	OGGED BY:	T	HOLE SIZE:	4	in		ITAL DA			ERTICAL DATUM:
COUN				I	Ozauk	ee	og QC BY:  C. Wierzchows	ki	HAMMER TYPE:					VATION:		N/
<b>2</b>	277+	-60CT	HCA	OFFSET	25'	Rt '	OWNSHIP: RANGE: SECTION	N:	1/4 SECTION:	1/4 1/4 SECTION:	I	JRFACE	ELEVA	I ION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Do and Geologica Each Major Unit	I C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	9	M 23	0-2-0-4	1 -		12" TOPSOIL  1.0  CLAYEY SILT, light brown mottled,	, mo	pist, stiff	CL-ML	1.70				HSA	
	SS 2	24	M 16	2-6-4-8 (10)	3 -		3.0 SILTY CLAY, brown, moist, trace s	ano	d & gravel, hard		4.10					
					- 6					CL						
	SS 3	19	M 19	5-8-6-9 (14)	8 -		Very stiff				3.10					
			19	(17)	10		10.0 End of Boring									
_							WATER LEVEL & CAVE									=
$\overline{\Sigma}$	+			DUNTERE				<u></u>	CAVE - IN DEPTH AT (			NMR				WET DRY
$ar{ar{\Lambda}}$				L AT COM					CAVE - IN DEPTH AFT			NMR				WET DRY
NOT							resent the approximate boundary; gradual tra urement Recorded	ans	ition between in-situ soil layers	s should be exp	ected.					

OF WISC	ONSIN.	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJE	ECT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP210
AHT MERKY OF	TRANSPOR	Mad	ison	, WI 53704			WISDOT STRUG	CTURE ID:						AGE NO				1 of 1
WISD	OT PRO	DJECT NA	ME:		I-	43	ONSULTANT:			CONSULTANT PROJECT NO:			L	ATITUDI	E:		LC	ONGITUDE:
ROAL	OWAY N	AME:				D	RILLING CONTRACTOR:		AET	DRILLING CONTRACTOR PROJE	ECT NO:		N	ORTHIN	IG: 3883	310.04	45 E	ASTING: <b>602992.242</b>
DATE	START	ED:			1/27/	15 °	REW CHIEF:		MD	DRILL RIG:			С	OORDIN	NATE SY			wccs
DATE	COMP	LETED:			1/27/	L	OGGED BY:		AET	HOLE SIZE:		4	in H	ORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COUN	NTY:				Ozauk	L	OG QC BY:	C. Wierzch		HAMMER TYPE:				TREAME	BED ELE	VATION	:	N/A
STAT	ION	·00CTI	1CV	OFFSET	OZUUN		OWNSHIP: RAN	IGE: S	SECTION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	URFACE	ELEVA	TION:		107-
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Ro and Geole Each Major	ogical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					_ 1 -	1) 7 7 1) 7 7 7 7	1.0										HSA	
	SS 1	14	M 22	0-4-2-6 (6)	- 2 -		MEDIUM TO 0 little silt, loose		D, brown	(gray, moist, trace gravel,								
	SS 2	10	M 12	3-2-2-3 (4)	- 4 -							SP						
0.GPJ 143 821/15					- 6 -													
OUNTIESOZALKERI-43/1226-04-01-143-SILVERSPRING DR TO STH 60/GINT/1228-04-01/0ZALKEE CO.GPJ 143 92/11/5	SS 3	11	M 17	4-7-6-11 (13)	- 8 - - 9 -		8.0 SILTY CLAY, 9	gray/brown, mo	oist, trace	e sand & gravel, very stiff		CL	3.5					
143 - SILVERSP					10		10.0	End of B	Boring at	10.0 ft.								
29-04-01 -									J = 4									
143/122							WATER L	EVEL & C	AVE-II	OBSERVATION I	DATA							
A PKEE	W	ATER	ENC	DUNTERED	DURI	NG D	RILLING: NE		騷	CAVE - IN DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
ES/OZA	W	ATER	LEVE	L AT COMF	PLETIO	N:	NMR		■	CAVE - IN DEPTH AF	TER 0 I	HOUF	RS:	NMR				WET DRY
NO.							resent the approximate urement Recorded	e boundary; grad	dual trans	iition between in-situ soil laye	ers should	be ex	pected.					

MISCONSIN TO	WI E	ept.	of Transp sman Blvo	ortati	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP211
OF TRANSPO	Mad	ison,	WI 53704			WISDOT STRUCTURE ID:	Lancas			AGE NO:				1 of 1
	ROJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT I	NO:			3885	07.43	4 E	ASTING: <b>602960.03</b> 1
DATE STAF				11/18/	14	REW CHIEF:	DRILL RIG:			OORDIN				wccs
DATE COM	PLETED:			11/18/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON'			VE	ERTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY: <b>C. Wierzchowski</b>	HAMMER TYPE:			TREAMB				N/
STATION <b>2282</b>	+00CTI	НСА	OFFSET		0	OWNSHIP: RANGE: SECTION:	1/4 SECTION: 1/4	4 1/4 SECTION:	SU	URFACE	ELEVAT	ΓΙΟΝ:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit /	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
		10		1 -	7/7	17" TOPSOIL							HSA	
\ <del>                                    </del>	+			-	<i>,</i>	; 1.4 FINE TO MEDIUM SAND, dark brow	n, moist, little gravel, trace							
SS 1 SS 1A		M 57 M	2-2-3-1 (5)	- 2-		silt, loose	, 3 ,	SP						
SS 2	10	W 21	1-1-2-2 (3)	- 4 -		MEDIUM TO COARSE SAND, browr silt, trace gravel, very loose	, wet, some gravel, trace							
				- 6 - ⊻ - 7 -				SP						
SS 3	16	W 11	5-8-9-7 (17)	- 8 -		8.0  MEDIUM TO COARSE SAND, brown silt, medium dense		SP						
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-I	N ODSEDVATION DA	ΤΛ					—	
	/ATED	ENICO	UNTERED	חוחיי			CAVE - IN DEPTH AT CO		NI:	7.5ft.	—	—	—	WET F
_ <u>∠</u>   <b>V</b> ′			L AT COMP			RILLING: 6.4ft.	CAVE - IN DEPTH AT CO							WET [ DRY [ WET [ DRY [
<b>▼</b> v	/ATED									NMR				VV □ 1

MISCONSIN B	350°	ept.	of Transp sman Blvo	ortatio	on	WISDOT PROJECT ID:		1229-04-01			BOF		G ID	):	MP212
OF TRANSPOR	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:					AGE NO:				1 of 1
WISDOT PR		ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
ROADWAY						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJECT N	NO:		ORTHIN	38	8608	.8	ASTING: 602965.507
DATE STAR				11/18/	14	REW CHIEF:	MD	DRILL RIG:			OORDIN				wccs
DATE COMP	PLETED:			11/18/	14		AET	HOLE SIZE:	4	in	ORIZON			VE	ERTICAL DATUM:
COUNTY:				Ozauk	ee	og qc by: C. Wierzcho	wski	HAMMER TYPE:			TREAME				NA
STATION <b>2283</b>	+00CT	HCA	OFFSET	20'	Rt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION: 1/4	4 1/4 SECTION	S	URFACE	ELEVA <sup>*</sup>	ΓΙΟΝ:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rocl and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 1	13	M 43	2-8-5-11 (13)	- 1 -		36" TOPSOIL								HSA	
SS 2	15	M 9	2-11-8-12 (19)			MEDIUM GRAVEL, brown/gray medium dense	, mois	t, some sand, trace silt,							
				- 6 -					GP						
SS 3	23	M 18	3-9-6-12 (15)	- 8 - - 9 -		SILTY CLAY, gray/brown, mois			CL	3.5					
					_									_	
						WATER LEVEL & CA	VE-II	N OBSERVATION DA	TA						
_	/ATER	ENCC	DUNTERED	DURI	NG DI	RILLING: NE	Ĭ <u>ĕ</u>	CAVE - IN DEPTH AT CO	OMPLETIC	N:	NMR				WET DRY
Δ̄ M	/ATER	LEVE	L AT COMF	PLETIO	N:	NMR	Ē	CAVE - IN DEPTH AFTE	R 0 HOUF	:S:	NMR				WET DRY
						esent the approximate boundary; gradu urement Recorded	al trans	sition between in-situ soil layers s	should be ex	ected.					

March   Mar	· OER	SCONSIN.	WI [	ept.	of Transp	ortatio	n	WISDOT PROJECT ID:		1229-04-01				30F		G IE	):	MP213
Martin	MATTHER	OFTRANSIO	Mad	ison	, WI 53704													1 of 1
AST   Market   Mark				ME:		l-4	13											
1/1/3/14									AET		CT NO:				3854		)1   [	ASTING: 603209.887
Section   Sect						11/13/	14		MD									wccs
SS   24   M   \$1.0.1.3.2.5   4   M   \$1.0.1.3.2.5   4   M   \$1.0.1.3.2.5   4   M   \$1.0.0.4.13   2   M   \$1.0.0.4.13   3   M   \$1.	DA	TE COMP	PLETED:			11/13/ <sup>-</sup>	14	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	V	ERTICAL DATUM:
2251-59CTHCB 38 R1  38 R1  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description and Geological Origin for Each Major Unit / Comments  Soil / Rock Description  Soil / Rock De						Ozauke	e	C. Wierzch	owski									N/
SS   7   M   3-10-4-13   2   2   10   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     SS   7   M   3-10-4-13   2   4   4.5     SS   21   M   6-19-13-25   4   4   4.5     SS   24   M   4-9-7-11   9   4.5     WATER ELEVEL & CAVE-IN OBSERVATION DATA   WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER ELEVEL & CAVE-IN OBSERVATION DATA   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL & CAVE-IN OBSERVATION DATA   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL & CAVE-IN OBSERVATION DATA   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5     WATER LEVEL AT COMPLETION   NMR   SILTY CLAY, brown, moist, trace sand & gravel, hard   4.5	STA	ATION <b>2251</b> +	-50CT	нсв	OFFSET	35'	Rt T	OWNSHIP: RANGE: S	ECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SS   7   M   3-10-4-13   2		SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Geolo	ogical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
1		SS		M	3-10-4-13	1 -		1.0	ace san	d & gravel, hard							HSA	
2			/		(14)	2							4.5					
SS 24 M 4-9-7-11 9 Very stiff    SS 3 24 M 4-9-7-11 9		SS 2	21		6-19-13-25 (32)	4							4.5					
SS 24 M 4-9-7-11 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	ZAUREE CO. GF0 143 @Z [7] 5					- 7 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	5 - SILVERSPRING DR TO STR COGIN 1/1228-04-010	SS 3	24		4-9-7-11 (16)			10.0	ode -	40.04			3.7					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.								End of B	oring at	ιυ.υ π.								
WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LOWER - IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	311229-							WATER LEVEL & CA	AVE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET ORY  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	z w	ATER	ENC	DUNTERED	DURIN	IG DI					ETIO	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAL T	_																DRY L
2) NE = Not Encountered; NMR = No Measurement Recorded	N	OTES: 1	1) Stratifi	cation	lines between	soil type	s repr	resent the approximate boundary; grad	dual trans									DKI L

MISCO	NSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT ID:		1229-04-01						G IE	):	MP214
HT OF TE	AMES OF	Mad	ison	, WI 53704	ĭ.		WISDOT STRUCTURE ID:						AGE NO				1 of 1
		JECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADV							RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	3867	727.86	33 E	ASTING: <b>603022.272</b>
DATE S					11/13/	14	REW CHIEF:	MD	DRILL RIG:					NATE SY			wccs
DATE (	COMPL	ETED:			11/13/	14	OGGED BY:	AET	HOLE SIZE:		4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
COUNT	ΓY:				Ozauk	ee	OG QC BY: C. Wierzo	howski	HAMMER TYPE:			S	TREAME	BED ELE	VATION		N/
STATIC 22	N 264+	00CTI	НСВ	OFFSET	15'	Lt	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / R and Gec Each Majc	lock Des blogical ( or Unit / (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	15	M 21	0-2-2-3	- 2 -		12" TOPSOIL  1.0  SILTY CLAY, reddish gray,	moist, trad	ce sand & gravel, stiff			1.25				HSA	
	SS 2	24	M 20	2-4-3-6 (7)	- 4 -		Very stiff					2.25					
					- 6 - - 7 -		Gray/brown, hard				CL						
\[ \frac{\sqrt{1}}{\sqrt{2}} \] NOTI	SS 3	24	M 17	3-8-7-11 (15)	- 9 -		10.0	Poring -1	40.0#			4.5	30	17			
					. •		End of	Boring at	1υ.υ π.								
							WATER LEVEL & C	.Δ\/F_II	N OBSERVATION D	)ΔΤΔ							
$\nabla$	\\//	TED.	FNCC	DUNTERED	DI IDIN	NG D		JAVE-II	CAVE - IN DEPTH AT		FTIO	N·	NMR				WET DRY
<b>∡</b>				L AT COMF			NMR	182	CAVE - IN DEPTH AF				NMR				DRY C WET C DRY C
NOT							resent the approximate boundary; gr	adual trans					INIVIE				DRY [
,,,,,,,							urement Recorded	adda ii di k		. J Si iouiu	JU UNA	Joieu.					

OED.	SCONSIN.	WI [	ept.	of Transp sman Blv	ortatio	on	WISDOT PRO	DJECT ID:		1229-04-	01				RIN	G II	<b>)</b> :	MP215
MATTHERS	OF TRANSPOR	Mad	lison,	, WI 53704	u. 		WISDOT STR	RUCTURE ID:						AGE NO				1 of 1
WIS	DOT PRO	OJECT NA	ME:		<b> -</b> -	43 C	ONSULTANT:			CONSULTANT PROJECT	NO:		L	ATITUDE	E:		LC	ONGITUDE:
ROA	ADWAY N	NAME:				D	RILLING CONTRACTOR	₹:	AET	DRILLING CONTRACTOR	PROJECT NO:		N	ORTHIN	IG: 386	927.	57 EA	ASTING: <b>603042.76</b>
DAT	E STAR	TED:			11/13/	14 C	REW CHIEF:		MD	DRILL RIG:			С	OORDIN	NATE SY			WCCS
DAT	E COMP	LETED:			11/13/	L	OGGED BY:		AET	HOLE SIZE:			in H	ORIZON	ITAL DA	TUM:	VE	ERTICAL DATUM:
COL	JNTY:					L	OG QC BY:	C Mior		HAMMER TYPE:				TREAME	BED ELE	VATION	:	N/A
STA	TION	-00CT	ICD	OFFSET	Ozauk		OWNSHIP: R	ANGE:	SECTION:	1/4 SECTION:	1/4 1/4	SECTION	: SI	JRFACE	ELEVA	TION:		N.A
	22001	10001	СБ			<u> </u>												
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and Ge Each Maj	Rock Des eological ( jor Unit / (	cription Origin for Comments		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					1 -		1.0		st trace cla	, little gravel, soft							HSA	
	SS 1	13	M 12	1-2-2-2 (4)	- 2 -		3.0	, brown, mois	i, ildoo ola	, into grave, sort		SM						
	SS 2	21	M 19	2-4-3-6 (7)	- 4 -		SILTY CLAY	, gray/brown,	moist, trace	e sand, very stiff			3.0					
OZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -							CL						
SOUNTESOCANCECI-L43/1229-04-01-143 - SIVEKSPRING DR TO STH 80/GIN 1722-04-01 OZAUKEE OD GPJ 143 872/15	SS 3	24	M 15	3-5-4-6 (9)	- 9 -		10.0	-	of Doving	40.04			2.25					
10401								End o	of Boring at	τυ.υ π.								
3/1229-0							WATER	IFVFI &	CAVF-II	N OBSERVATION	ATAO NO							
<u> </u>	7 \_\_\	ATFR	FNCC	UNTERED	DI IDIN	וט טו		LL V LL X	UAVE-II	CAVE - IN DEPT		DI ETIC	N.	NMR				WET DRY
Stozauk Z				L AT COMF			NMR		125g	CAVE - IN DEPT				NMR				DRY DRY DRY DRY DRY
								ate houndans	aradual trans	sition between in-situ so				INIVIE				DRY [
							urement Recorded	alo bouridary, g	g, adda II al II	maon between in-situ St	rayerə əriUUl	u ne ex	JOUIGU.					

Mode	MISCONS	₩ W	Dept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01				RIN	G IE	):	MP216
143	ATTEN OF THAT	🧗 Ma	idison	i, WI 53704	u. ‡			):								
AFT   Market   Mark			NAME:		I-	43										
11/13/14   11/13/14	ROADW	AY NAME:					RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	ECT NO:			3871	126.30	65 E	ASTING: <b>603076.009</b>
11/13/14					11/13/	14		MD								
SS   11   M   0.3-2-6   2   15 TOPSOIL   SS   11   M   0.3-2-6   2   15 TOPS	DATE CO	OMPLETED			11/13/	′14 <sup>L</sup>	OGGED BY:	AET	HOLE SIZE:	4	in	ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
ST   2588-900CTHCB   STEET   25 Re   TOWNSH'   SAVE   BOTTON   THE SETTON   THE SETTON   SAVE   S	COUNTY	<b>/</b> :			Ozauk	ee	OG QC BY:	/ierzchowski	HAMMER TYPE:		S.	TREAME	BED ELE	VATION	:	NA
SS   11   M   0-32-6   - 2   15° TOPSOIL   18° TOPSOIL	STATION 22	8+00C	тнсв	OFFSET	25'	Rt T		SECTION:		1/4 1/4 SECTION:	SI	JRFACE	ELEVA <sup>*</sup>	TION:		
SS 11 M 0-32-6 - 2	SAMPLE TYPE	RECOVERY (in)	(Noisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and	d Geological (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS   19   M   2-5-3-7   - 4					1 -	\(\bar{1}\) \(\bar	1.3 FINE TO MEDIUM SII	LTY SAND, brov gravel, loose	wn/yellow/red mottled,						HSA	
SS   19   M   2-5-3-7   4	∭ s	1   '' S	36 M					own, moist, trac	e sand, very stiff	SM						
SS 24 M 3-8-6-11 9	S	S 19		2-5-3-7 (8)							3.25					
SS 24 M 3-8-6-11 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR ORY ORY ORY ORY ORY ORY ORY ORY ORY OR					- 7 -					CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	S	S 3 24			- 9 -						3.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.				_	10		E	nd of Boring at	10.0 ft.							
✓       WATER ENCOUNTERED DURING DRILLING: NE       ☑       CAVE - IN DEPTH AT COMPLETION: NMR       NMR       WET DRY							WATER LEVFI	L & CAVE-II	N OBSERVATION I	DATA						
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	$\Box$	WATE	R ENC	OUNTERED	DURII	NG D					N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	1															WET [
	NOTE	S: 1) Stra	tification	lines between	soil type	es rep	resent the approximate bound	lary; gradual trans								DIV. [

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  AET  DRILLING CONTRACTOR:  AET  DATE STARTED:  11/13/14  DATE COMPLETED:  11/13/14  LOGGED BY:  LOGGED BY:  LOGGED BY:  LOGGED BY:  HAMMER TYPE:  STREAMBED ELEVATION:  LATITUDE:  LONGITUDE:  AET  AET  AIN  STREAMBED ELEVATION:  STREAMBED ELEVATION:	MISCO	WSIN.	WI E	ept.	of Transp	ortati	on	WISDOT F	PROJECT ID:		1229-04	1-01			BOI		G IE	<b>)</b> :	MP217
FIGURE   11/13/14	HIN OFT	RANSTO	Mad	ison					STRUCTURE ID	):									1 of 1
SS   12   M   T-7-4-14   - 2   SS   12   M   T-7-19-15-22   4   - 3   Cores (Cores (				ME:		I-	43												
11/13/14									FOR:	AET		OR PROJECT	NO:			3873		46 E	ASTING: 603119.251
THATISTA   COUNTY   COUNTY   COUNTY   CANADER   CANADE						11/13/	14			MD									wccs
STATION OF SET 60' Rt TOWNSHIP NAME  SOII / Rock Description and Geological Origin for Each Major Unit / Comments  SS 12 M 1-7-4-14 28 SS 1A 12 M 1-7-4-14 28 SS 1A 14 M 15 SS 1A 14 M 15 SS 1A 15 M 16 SS 1A 15 M 1			ETED:			11/13/	14			AET				4 in					ERTICAL DATUM:
SS   12   M   17-4-14   2   SS   12   M   7-19-15-22   4   SS   12   M   7-19-15-22   2   2   M   7-19-15-22   4   SS   12   M   7-19-15-22   4   SS   13   SS   SS   SS   SS   SS   SS						Ozauk	ee			/ierzchowski								:	NA.
SS   12   M   1-7-4-14   2   2   3   3   4   5   5   6   -	STATIO <b>2</b> 2	<sup>ON</sup> 270+	00CTI	НСВ	OFFSET	60'	Rt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTIO	N: 1	/4 1/4 SECTIO	N: S	SURFACE	ELEVA	TION:		
SS   12   M   1-7-4-14   2   MEDIUM TO COARSE SAND, brown/light brown, moist, some gravel, trace silt, medium dense   SS   12   M   7-19-15-22   4   SP   SP   SP   SP   SP   SP   SP	SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			and Each	d Geological (	Origin for		USCS / AASHTO	Strength Qp	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 12 M 10 1-7-4-14 (11) 2 - 2   Gravel, trace silt, medium dense   SS 12 M 7-19-15-22 4 - 5 - 6   SP   SP   SP						- 1 -	1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	1.3		E SAND, brown	light brown, moist,	some						HSA	
SS 2 12 M 7-19-15-22 4 - 5- 5 6 -		1 SS	12	28 M	1-7-4-14 (11)	2		gravel, tra	ce silt, medi	ium dense	3								
- 6 -		SS 2	12		7-19-15-22 (34)	<sup>2</sup> - 4 -		Dense					SF						
SILTY CLAY, gray/brown, moist, trace sand, very dense  CL 2.5  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AT COMPLETION: 9.7ft.  WATER LEVEL AT COMPLETION: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET CAVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	01170					- 6 -													
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	10.00																		
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	SEVERATING ON LOSIN OCCIONING SEVERAL DEADER	SS 3	23		3-7-5-9 (12)	¥		SILTY CLA	AY, gray/bro	own, moist, trace	e sand, very dense		CL	2.5					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER LEVEL AT COMPLETION: NMR  WET LOVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	2		<u> </u>		ı	<del>' 10</del>	<i>V</i> /_	/ <sub>1</sub> 10.0	E	End of Boring at	10.0 ft.				1		ı		1
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER ENCOUNTERED DURING DRILLING: 8.9ft.  WATER LEVEL AT COMPLETION: NMR	140-677							\ <b>\</b> / \ T =	ם ו ביירי	I & C ^ \ / \ ''	I OBSEDVAT	ION DA	т,						
WATER LEVEL AT COMPLETION: NMR  WET  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET  DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	7	W/A	ATFR	=NC(	)UNTERED	DURI	NG D							ON.	9 7ft				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	¥ \ <b>T</b>								.vit.										DRY DRY WET [
	NOT								imate bound	lary; gradual trans									DRY L

AIISCONSIN.	WI E	ept. 2 Kin	of Trans sman Blv	portation	on	WISDOT PROJECT ID:	1229-04-01				ING	ID:	MP219
NISDOT D	Mad ROJECT NA	ison,	WI 5370	4		WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:			SE NO:			1 of '
ROADWAY		MVIE:		l-	43	ONSULTANT: RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT	ECT NO:		RTHING:			EASTING:
						AE	Γ	ECT NO:		3	: <b>38678</b> 4 TE SYSTI		602701.9
OATE STAF				1/28/	15	REW CHIEF:  MI OGGED BY:	DRILL RIG:  HOLE SIZE:				AL DATU		VERTICAL DATUM:
COUNTY:	PLETED.			1/28/	15	AE OG QC BY:	HAMMER TYPE:	4 in			D ELEVA		VERTICAL DATOM.
			OFFSET	Ozauk	ee	C. Wierzchowski OWNSHIP: RANGE: SECTION	i	1/4 1/4 SECTION:			LEVATIO		N/
2265	+00CTI	HCC		30'	Lt				1				
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock De and Geological Each Major Unit	Origin for	USCS / AASHTO	(tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders Drilling Method	Notes
				1 -		1.0 SILTY CLAY, dark brown to light	wn, moist, trace sand, stiff					HS	6A
SS 1	13	M 20	1-4-2-5 (6)	- 2-				1	.5				
SS 2	19	M 16	1-3-3-4 (6)	- 4 -				2	2.0				
1				- 6 -				CL					
				- 7 -		Gray/brown, very stiff							
SS 3	23	M 18	4-6-4-7 (10)	- 9 -		10.0		3	3.0				
				10		End of Boring a	t 10.0 ft.						
						WATER LEVEL & CAVE	IN OBSERVATION I	DATA					
<u> </u>	/ATER	ENCC	UNTERE	D DURIN	NG D	RILLING: NE	CAVE - IN DEPTH AT	COMPLETION:	N	IMR			WET [ DRY [

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  AET  DRILLING CONTRACTOR:  AET  DATE STARTED:  12/10/14  COUNTY:  LOGGED BY:  LOGG C BY:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  NORTHING:  386990.29  602706.95  COORDINATE SYSTEM:  WCCS  HORIZONTAL DATUM:  VERTICAL DATUM:  STREAMBED ELEVATION:	OED A	SCONSIN 30	350°	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01					RING	G IE	):	MP221
1.43   27.1014   27.101	HIMER	OFTRANS	Mad	lison	, WI 53704	ĭ.												1 of 1
AFT				AME:		l-	43											
12/10/14   12/10/14									AET		CT NO:				386			ASTING: 602706.954
A   1   12   10   10   10   10   10   10						12/10/	14		MD									wccs
Section   Sect			LETED:			12/10/	14		AET			4	in					ERTICAL DATUM:
SS   12   M   1-8:5-4   2   2   2   10   10   10   10   10						Ozauk	ee	C. Wierzcho	wski								:	N/
1	STA	TION <b>2267</b> +	-00CT	нсс	OFFSET	50'	Lt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SEC	TION:	SU	JRFACE	ELEVA	TION:		
SS   12   M   1-8-5-4   2 -	L C	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 17 M 2-3-2-3 4 SILTY CLAY, gray/brown, moist, trace sand, stiff  7 CL  SS 2 17 M 2-6-5-7 9 Interest in the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary, gravatal transfero between soil types represent the approximate boundary.			12		1-8-5-4 (13)		7 V V	MEDIUM TO COARSE SAND, silt, medium dense	brown	, moist, some gravel, trace		SP					HSA	
SS 20 M 2-6-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETIO		SS 2	17			- 4 -		FINE SANDY CLAY, brown, mo			:	SC	0.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	THEO OF DESCRIPTION OF THE DEFINE					- 7 -		SILTI CLAT, gray/blowit, flice	ы, п <i>а</i>	a and, and		CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  ONTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 3	20			- 9 -							1.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: NE  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ WATER LEVEL AT COMPLETI						10		End of Bo	ring at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE								WATER LEVFL & CA	VE-II	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET I DRY  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7	7 w	ATER	ENCC	UNTERFO	DURIN	NG DI					MIT	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	7								1152-7									DRY C
	N	·							ual trans									אלו ב

OF NISCONSIN. VOIL	WI [	Dept. 2 Kin	of Trans sman Blv	portatio	n	WISDOT PROJECT ID:	1229-04-01					G ID		MP222
OFTRANS	Mac	lison	, WI 5370	4	-	WISDOT STRUCTURE ID:	CONCULTANT DOGUECT VIC			AGE NO:			Love	1 of 1
WISDOT PF		AME:		1-4	13	CONSULTANT:	CONSULTANT PROJECT NO:	0.		ATITUDE			LONGIT	
ROADWAY						ORILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT N	O:		ORTHIN	3870	85.01	B EASTIN	602670.076
DATE STAR				1/28/1	15	CREW CHIEF: MD	DRILL RIG:			OORDIN			LEDELO	wccs
DATE COM	PLETED:			1/28/1	15	OGGED BY:	HOLE SIZE:	4	in	ORIZON"			VERTIC	AL DATUM:
COUNTY: STATION 2268	+00CT	нсс	OFFSET	Ozauke	e	OG QC BY:  C. Wierzchowski  TOWNSHIP: RANGE: SECTION:	HAMMER TYPE:  1/4 SECTION: 1/4	1/4 SECTION:		JRFACE		VATION:		NA
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)		BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	15	W 45	0-2-1-4	2		12" TOPSOIL  1.0  SANDY LOAM, gray to dark gray, we	, little clay, soft	CL-ML				F	ISA	
SS 2	13	M 17	3-5-2-9 (7)	- 4 -		3.0 CLAYEY FINE SAND, light brown, mo	ist, loose							
				- 6 -		8.0		sc						
SS 3	19	M 17	3-6-4-8 (10)	- 9 -		SILTY CLAY, gray/brown, moist, trace		CL	2.75					
				-		End of Boring at	ιυ.υ π.							
						WATER LEVEL & CAVE-I	N OBSERVATION DAT	 ΓΑ						
$\nabla$ $\mathbf{v}$	VATER	ENC	DUNTEREI	D DURIN	IG DI		CAVE - IN DEPTH AT CC		<b>N</b> :	3ft.				WET DRY
						NMR				NMR				WET DRY
- 1						resent the approximate boundary; gradual trans				***				DK1 [_
▼ W	VATER	LEVE ication	L AT COM	PLETIO	N: s repr	WATER LEVEL & CAVE-I PRILLING: 3ft.	N OBSERVATION DAT CAVE - IN DEPTH AT CO CAVE - IN DEPTH AFTER	MPLETION	S: 1					

Check   Total   Check   Chec	9 E	SCONSIN.	WI [	ept.	of Transp	ortatio	on	WISDOT PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	MP223
1.43	AHTMERS	OF TRANSPOR	Mad	ison	, WI 53704	u. 												1 of 1
Second   Control   Contr				ME:		I-	43											
12/10/14   12/10/14	ROA	DWAY N	AME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:				3871		58 E	STING: <b>602631.32</b>
Second   S	DAT	E START	ED:			12/10/	14 C	REW CHIEF:	MD	DRILL RIG:			С	OORDIN	IATE SY	STEM:		wccs
SS   10   M   1-2-3-2   2-2-3-3   2-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3   3-3-3-3-	DAT	E COMP	LETED:			12/10/	14	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	TAL DA	TUM:	VE	ERTICAL DATUM:
SS   10   M   1-2-2-2   2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	COU	JNTY:				Ozauk	ee	C. Wierzcho	owski	HAMMER TYPE:			S.	TREAME	ED ELE	VATION	:	NA
SS   10   M   1-2-2-2   2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	STA	TION <b>2269+</b>	-00CTI	нсс	OFFSET	25'	Lt T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION:	1/4 1/4 SE	CTION:	SI	JRFACE	ELEVA	TION:		
SS   10   M   1-2-2-2   2   2   2   2   2   2   2   2	HONE HONE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)			and Geolog Each Major U	gical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
MEDIUM TO COARSE SAND, brown, moist to wet, some gravel, trace sit, loose  SS 8 M 1-5-3-9 - 4  8 8 8.0 SILTY CLAY, gray/brown, wet, trace to little sand, very stiff  SS 19 M 3-5-3-8 - 9  10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AFTER 0 HOURS: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL			10			- 2 -		3.0									HSA	
SS 19 M 3-5-3-8 9 SILTY CLAY, gray/brown, wet, trace to little sand, very stiff  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION:		SS 2	8		1-5-3-9 (8)	- 4 -		MEDIUM TO COARSE SAND,	brown	, moist to wet, some gravel,								
SILTY CLAY, gray/brown, wet, trace to little sand, very stiff  SS 19 M 3-5-3-8 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR	OZAUKEE CO.GPJ 143 8/21/15					- 7 - <u>▽</u>						SP						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	3 - SILVERSPRING DR TO STH 60/GINT/1229-04-01	SS 3	19		3-5-3-8 (8)			10.0				CL	2.75					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	24-01-14					-		End of Bo	ring at	1υ.υ π.								
WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	34229-0							WATER LEVEL & CA	VE-I	N OBSERVATION D	ATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		w	ATER	ENCC	UNTERED	DURIN	NG D					ETIO	N:	9.6ft.				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	SIOZAI	_								-				NMR				WET [ DRY [
2) NE = Not Encountered; NMR = No Measurement Recorded	NC	TES: 1							ual trans	sition between in-situ soil layer	rs should	be exp	ected.					

WISDOT PROJECT NAME:  I-43  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUDE:  AET  DRILLING CONTRACTOR PROJECT NO:  NORTHING:  387723.168  EASTING:  387723.168  CORDINATE SYSTEM:	OED.	SCONSIN 30	350°	ept.	of Transp	ortatio	n	WISDOT PROJECT ID:		1229-04-01					RIN	G IE	):	MP224
FIGURE   12/10/14	ATTMEN	OFTRANS	Mad	ison	, WI 53704	۵. ا												1 of 1
AET   More   M				ME:		<b>I-</b> 4	3											
12/10/14   12/10/14   10/10/16   12/10/14   10/10/16   12/10/14   10/10/16   12/10/14   10/10/16   10/10/16   12/10/14   10/10/16									AET		CT NO:				3877		8	ASTING: 602631.04
TOWNSHIP  OZAUKSE  OZ						12/10/1	4		MD									wccs
SCAULAGE  STATEMENT OF SET 0 TOWNSHP: NAME SCTION. 144 144 SCTION. SURFACE ELEVATION.  SOI! / Rock Description and Geological Origin for Each Major Unit / Comments  SSI 20 M 2-7-3-10 2 - 12* TOPSOIL  SSI 20 M 3-8-5-10 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	DA <sup>-</sup>	TE COMP	LETED:			12/10/1	4	OGGED BY:	AET	HOLE SIZE:		4		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
SS   20 M   3-8-5-10   - 4   - 6						Ozauke	e	C. Wierz	chowski									N/
SS 24 M 3-8-5-10 (13) - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	STA	TION <b>2274</b> +	-00CT	HCD	OFFSET		0	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SEC	CTION:	SU	JRFACE	ELEVA	TION:		
SS 2 24 M 3-8-5-10 4.0  SS 2 1 M 3-8-5-10 4.0  CL	L L	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge	ological (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 24 M 3-8-5-10 - 4 - 5 - 5 - CL			20		2-7-3-10 (10)	1		1.0	moist, trace	e sand, very stiff			3.65				HSA	
		SS 2	24		3-8-5-10 (13)	- 4 -							4.0					
SS 3 24 M 3-6-5-7 9 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR CAVE - IN DEPTH AT CAVE - IN DEPTH	OZAUNEE CU.ST3 143 ØZITIS					- 7 -						CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil lavers should be expected.	45 - SILVERSPRING DR TO STRI ROGIN IVIZZB-04-01	SS 3	24					10.0	f Boring of	10 O ff			2.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LOVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	1040							End o	i bulling at	10.0 It.								
WATER ENCOUNTERED DURING DRILLING: NE	137 1529-1							WATER LEVEL &	CAVE-I	N OBSERVATION Γ	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.	7	7 w	ATER	ENCC	DUNTERED	DURIN	G DI					ETIOI	N:	NMR				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary: gradual transition between in-situ soil layers should be expected.									1192									DRY L
	N	·							radual trans									ן זאט

OED A	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01					G IE	):	MP225
HTMERS	OF TRANSPOR	Mad	lison	, WI 53704	پ. ا		WISDOT STRUCTURE ID:		I a a u a u i i i i i i i i i i i i i i i			AGE NO:				1 of 1
		DJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:			ATITUDE				ONGITUDE:
	N YAWD							AET	DRILLING CONTRACTOR PROJECT NO:			ORTHIN	3884	18.45	53 E	ASTING: 602709.694
	E START				12/10/	14	REW CHIEF:	MD	DRILL RIG:			OORDIN				wccs
	E COMP	LETED:			12/10/	14		AET	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
	JNTY:				Ozauk	ee	og qc by: C. Wierzcho	wski	HAMMER TYPE:					VATION:		NA
STA	TION <b>2281+</b>	-00CT	HCD	OFFSET		0 T	OWNSHIP: RANGE: SEC	CTION:	1/4 SECTION: 1/4 1/4	4 SECTION	: S	JRFACE	ELEVA	TION:		
L	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geolog Each Major U	gical C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	18	M 31	1-3-1-7 (4)	- 1 -		36" TOPSOIL								HSA	
	SS 2 SS 2A	16	M 14 M 17	2-7-3-11 (10)	- 4 -		FINE TO MEDIUM SAND, dark clay, loose  4.0  FINE SANDY SILT, brown, moi			SP	- 4.0					
04-01 OZAUREE CO.(3F) 143 &Z1/15					- 6 - - 7 -		Gray/brown			SM						
- SILVERSPRING DR 10 STH 60/GIN 1/1228-04-0	SS 3	22	W 19	3-10-7-13 (17)	- 9 <u>k</u>		10.0				3.0					
- 143					10		End of Bor	ring at	10.0 ft.							<u> </u>
1229-04							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\/E !'	N OBSERVATION DATA	\						
Kee   43	7 147	٨ΤΕΡ	ENIC	DUNTERED	ייטו וט י	AC D		VE-II	CAVE - IN DEPTH AT COM		NI:	9.1ft.				WET □
Z SYUZAUK	_			L AT COMF			NMR	TIZES	CAVE - IN DEPTH AT CON			9.1π. NMR				WET  DRY  WET  DRY  DRY
≝⊨							resent the approximate boundary; gradu	_								DRY 🗌
							urement Recorded	/								

OEPA W	SCONSIN.	WI [	ept. Kin	of Transı ısman Blv	portation	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP226
HTMERS	OF TRANSPOR	Mad	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONCULTANT DDG (TOT VO			AGE NO:			1	1 of 1
		DJECT NA	ME:		I-	43	CONSULTANT:	CONSULTANT PROJECT NO:	OT NO.		ATITUDE				ONGITUDE:
	ADWAY N						ORILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	CT NO:			3886	17.92	4	ASTING: 602727.341
	E STAR				12/10/	14	CREW CHIEF: MD	DRILL RIG:			OORDIN				wccs
	E COMP	LETED:			12/10/	14	OGGED BY:	HOLE SIZE:	4 i	n	ORIZON			VE	ERTICAL DATUM:
	JNTY:				Ozauk	ee	OG QC BY:  C. Wierzchowski	HAMMER TYPE:					VATION:		NA
SIA	2283	-00CT	HCD	OFFSET	19'	Lt '	FOWNSHIP: RANGE: SECTION:	1/4 SECTION:	1/4 1/4 SECTION:	St	JRFACE	ELEVA	HON:		I
HONE TANKS	SAMPLE I TE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strengtn Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
	SS 1	1	M 23	2-8-6-8 (14)	1 -		36" TOPSOIL						ŀ	HSA	
	SS 2	20	M 10	8-6-8-6 (14)	- 3 -		3.0  FINE TO MEDIUM SAND, brown, moi medium dense	ist, little gravel, trace silt,	SP	3.0					
$\bigwedge$	SS 2A		M 17		5-		SILTY CLAY, light brown, moist, little	sand, trace gravel, very stiff	f						
					- 6 -				CL						
					7 -		8.0								
	SS 3	23	M 17	2-8-5-10 (13)	- 9 -		SILTY CLAY, brown, moist, trace san	d, hard	CL	4.5					
<u></u>					<del>' 10</del>	<u>, /</u>	End of Boring at	10.0 ft.	1 1						
							MATERIEVELOCAVE	N ODOEDVATION S	ATA						
_	7 \ 14.	A T C C	- NIO	OUNTERE	. D. 15	10.5	WATER LEVEL & CAVE-II			1.	NIP 4D				WET I
7	_			DUNTERED				CAVE IN DEPTH AT			NMR				WET DRY WET
<u>Ā</u>				L AT COM			NMR	CAVE - IN DEPTH AFT			NMR				WET DRY
NC							resent the approximate boundary; gradual trans surement Recorded	sition between in-situ soil layer	rs snould be expe	cted.					

DATE STARTED:  12/09/14  CREW CHIEF:  MD  DRILL RIG:  COORDINATE SYSTEM:  COUNTY:  Ozaukee  COUNTY:  Ozaukee  C. Wierzchowski  STATION  2285+75CTHCD  OFFSET  25' Lt  SOII / Rock Description  DRILL RIG:  COORDINATE SYSTEM:  VERTICAL DA  HOLE SIZE:  HAMMER TYPE:  STREAMBED ELEVATION:  SURFACE ELEVATION:  OFFSET  SOII / Rock Description  SOII / Rock Description	MP227	N	):	G IE							1229-04-01		ECT ID:	WISDOT PRO	on	ortatio	of Transp	ept.	WI E	ISCONSIN.	430
Part	1 of 1												CTURE ID:					ison,	Mad	OFTRANSIO	ARTW
AET	£														13	I		ME:			
12/09/14   12/09/14	02761.975	ASTING: 60	39 E		3889					;T NO:		T	AET								
12/09/14   AGE   A In   STREAMBED ELEVATION   STREAMBED ELEVATIO	wccs											ו כ	MD		14	12/09/	,				
Solity   S	ATUM:	ERTICAL DAT	VI	гим:	TAL DA	ORIZON		4 in	4		E SIZE:	т	AET	GGED BY:	14	12/09/			LETED:	TE COMP	D
SS   20   M   4-10-7-12   4   -6   -6   -6   -6   -6   -6   -6	N/											(i	C. Wierzchowski		e	Ozauk					
SS 20 M 4-10-7-12 4 A-6(4)  SS 20 M 4-10-7-12 4 A-6(4)  A-6(4)  L2*TOPSOIL  12*TOPSOIL  12*TOPSOIL  4.5  A-6(4)  HSA  4.5  CL				ΓΙΟΝ:	ELEVA	RFACE	SL	N:	ECTION	1/4 1/4 SE	1/4 SECTION:	:	NGE: SECTION:	WNSHIP: RA	Lt TO	25'	OFFSET	HCD	-75CTI	ATION <b>2285</b> +	S
SS 20 M 4-10-7-12 4 A-6(4)  SILTY CLAY, light brown, moist, trace sand, hard  4.5  A-6(4)  CL	Notes	N	<b>Drilling Method</b>	Boulders	Plasticity Index (%)	Liquid Limit (%)	Su engui യു (tsf)	Strength Qp	USCS / AASHTO		n for	Or	and Geological			Depth (ft)	BLOW COUNTS (N VALUE)	Moisture	RECOVERY (in) (RQD)	SAMPLE TYPE NUMBER	
SS 20 M 4-10-7-12 - 4 - A-6(4)  A-6(4)  CL			HSA				4.5	4			d, hard	ce s	light brown, moist, trac	1.0			2-6-3-9 (9)		20		
					20	35	4.3	4	CL					A-6(4)		- 4 -	4-10-7-12 (17)		20	SS 2	
														Very stiff		- 7 -	3-7-5-8 (12)		24	SS 3	KING DK TO SITI WINGINITIZZZ-U4-UT UZAUNEE UU.GFO 1-43 ØZITIG
														10.0							SILVERS
End of Boring at 10.0 ft.		1									ft.	at 10	End of Boring a	10.0		<del>└ 10</del>					- 43 - 5
																					0-40-6
WATER LEVEL & CAVE-IN OBSERVATION DATA										ATA	BSERVATION D	IN	EVEL & CAVE-	WATER							771122
₩ WATER ENCOUNTERED DURING DRILLING: NE ₩ CAVE - IN DEPTH AT COMPLETION: NMR	WET [ DRY [					NMR	: _	ON:	LETIC	COMP	AVE - IN DEPTH AT	1	₩ ₩	RILLING: NE	IG DE	DURIN	UNTERED	ENCC	ATER I	$Z \overline{\mathbf{w}}$	AUKEE
WATER LEVEL AT COMPLETION: NMR  □ CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET DRY					MR	: 1	RS:	HOUF	ER 0 I	AVE - IN DEPTH AFT	L		NMR	N:	LETIO	L AT COMP	EVE	ATER I	Z w	ES/OZ,
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded							cted.	kpect	be ex	s should	between in-situ soil layer	nsiti	e boundary; gradual trar								NOOUN1

WISDOT PROJECT NAME:  CONSULTANT:  CONSULTANT PROJECT NO:  LATITUDE:  LONGITUDE:  LONGITUD	o Wiscon	NSIN.	WI [	ept.	of Transp	ortati	on	WISDOT PR	OJECT ID:		1229-04-0	01			BO		G IE	<b>)</b> :	MP228
143   OFFILING CONTRACTOR PROJECT NO.   Notificial 400332.515   OSTING   OSTING PROJECT NO.   Notificial 400332.515   OSTING PROJECT NO.   Notificial 400332.515   OSTING PROJECT NO.   Notificial 400332.515   OSTING PROJECT NO.   OSTING PROJECT NO.   Notificial 400332.515   OSTING PROJECT NO.   Not	ATT OF THE	PANSO	Mad	ison	, WI 53704	u. 			RUCTURE ID:										1 of 1
DATE STAYRED   11/20/14   11/20/14   11/20/14   11/20/14   10/20/20/21   11/20/14   11				ME:		I-	43												
11/20/14   12/2014   12/2014   13/									PR:	AET		PROJECT NO:				4003		15	ASTING: 603255.266
AET						11/20/	14			MD									wccs
Section   Comment   Comm			ETED:			11/20/	14			AET			4	in					ERTICAL DATUM:
201-00STH60B   25 Rt						Ozauk	ee			rzchowski								:	N/
SS 18 M 1-5-3-8 (8) 1-5-3-8 (9) 1-6-3-8 (19)	STATIC <b>24</b> 0	ON 01+0	0STH	60B	OFFSET	25'	Rt T	OWNSHIP:	RANGE:	SECTION:	1/4 SECTION:	1/4 1/4	SECTION	: S	URFACE	ELEVA	TION:		
SS 18 M 1-5-3-8 2 18 M 19 1-5-3-8 - 4 - CL CL	SAMPLETYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	Seological (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 2 18 M 19 1-5-3-8 (8) - 4 - Qu = 4.1			15	M 22	1-4-2-5 (6)			1.0		n, moist, trace	e sand & gravel, very s	stiff		3.5				HSA	
		SS 2	18		1-5-3-8 (8)	- 4 -		Hard						4.5					Qu = 4.1
SS 3 24 M 4-7-6-10 9 4.0  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE CAVE - IN DEPTH AT COMPLETION: NMR CAYE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected.						- 7 -		Von eiff					CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected.		SS 3	24		4-7-6-10 (13)	- 9 -								4.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  CAVE - IN DEPTH AT COMPLETION: NMR  WET LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected.						10			End	of Boring at	10.0 ft.								
WATER ENCOUNTERED DURING DRILLING: NE   ☐ CAVE - IN DEPTH AT COMPLETION: NMR  ☐ WET DRY ☐ WATER LEVEL AT COMPLETION: NMR ☐ CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected.								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SIE//EI 1	& CΔ\/⊑.Ⅱ	N OBSERVATIO	N DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  WET I DRY!  WOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected.	abla	\\\\	ATFR	FNCC	UNTERED	DI IDI	NG D						DI FTIC	JN.	NMP				WET [
NOTES: 1) Stratification lines between soil types represent the approximate boundary gradual transition between in-situ soil layers should be expected	<u>*</u>								•		<del> </del>								DRY WET
	NOT								nate houndar	r gradual trans									DRY [

OEP.	SCONSIN.	WI [	Dept.	of Transp sman Blv	ortatio	on	WISDOT PROJECT	ID:	1229-04-01						G IE	):	MP229
MATHER	OFTRANSPOR	Mad	ison	, WI 53704			WISDOT STRUCTU	RE ID:					GE NO:				1 of 1
		OJECT NA	ME:		I-	43	ONSULTANT:		CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
RO	ADWAY N	IAME:				D	RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJE	CT NO:		NO	ORTHIN	G: <b>4005</b>	42.29	93 E	ASTING: 603267.771
DA	TE STAR	ΓED:			11/20/	14 C	REW CHIEF:	MD	DRILL RIG:			CC		IATE SY			wccs
DA	TE COMP	LETED:			11/20/	L	OGGED BY:	AET	HOLE SIZE:		4 ir		ORIZON	ITAL DA	TUM:	V	ERTICAL DATUM:
CO	JNTY:				Ozauk	L	OG QC BY:	C. Wierzchowski	HAMMER TYPE:		<del></del>		REAMB	ED ELE	VATION	: '	N/A
STA	TION	50STH	IENR	OFFSET	25'	T	OWNSHIP: RANGE:		1/4 SECTION:	1/4 1/4 SECT	ΓΙΟΝ:	SU	JRFACE	ELEVA"	TION:		147-
i i	SAMPLE IYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		Ea	Soil / Rock Des and Geological ( ach Major Unit / (	Origin for		USCS / AASHTO	Suengui Sp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					+ 1 -		1.0	k brown, moist, trace	e sand, stiff							HSA	
	SS 1	8	M 29	1-2-2-4 (4)	- 2 -						1	.25					
	SS 2	9	M 28	2-2-2-4 (4)	- 4 -							1.0					
AUREE CO.GFJ 143 8/21/15					- 6 -						CL						
SOUNTENOUZAUKEULASITZEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	SS 3	24	M 20	3-8-6-11 (14)	- 9 -		Brown, very stiff	End of Boring at	10.0 ft.			4.0					
-104-01								or borning at									
5371229							WATER LEY	VEL & CAVE-II	N OBSERVATION D	DATA							
Z	7 w.	ATER	ENCC	DUNTERED	DURIN	NG D			CAVE - IN DEPTH AT		TION	: 1	NMR				WET DRY
SOZAU				L AT COMF			NMR		CAVE - IN DEPTH AF				NMR				WET DRY
NO THE								oundary; gradual trans	ition between in-situ soil laye								טולו ב
3							rement Recorded		7-		,						

A John	3502	Pept. Kin	of Trans	portatio	on _	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP230
WISDOT PR	Mad	ison,	, WI 5370	4	1	WISDOT STRUCTURE ID:	CONCILI TANT DDO 1507 NO			AGE NO:			Lor	1 of
		WE:		I-4	13	ONSULTANT:	CONSULTANT PROJECT NO:	CT NO:		ATITUDE				IGITUDE:
ROADWAY						PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJE	CT NO:		ORTHIN	4011	09.48	) EAS	TING: 603340.34
DATE STAR				11/21/	14	REW CHIEF: MD	DRILL RIG:			OORDIN			Luca	WCC
DATE COMP	PLETED:			11/21/	14	OGGED BY:	HOLE SIZE:	4	in	ORIZON			VER	TICAL DATUM:
COUNTY:			OFFSET	Ozauke	e	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:		JRFACE		VATION:		N/
STATION <b>2408+</b>	25STH	60B	OTTOET	35'	Rt	TVIIOL. GEOTION.	W4 OEOTION.	INT INT OLOTION.	0,	JINI MOL	LLLVA	TION.		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				— 1 -		36" TOPSOIL						H	ISA	
SS 1	12	M 33	2-4-3-5 (7)	3 -		3.0 SILTY CLAY, brown/gray mottled, mo	ist, trace sand, stiff							
SS 2	12	M 25	5-5-4-5 (9)	5-					1.25					
				- 6 -				CL						
				8 -		8.0 SILTY CLAY, brown, moist, little grav	əl, stiff							
SS 3	4	M 14	3-5-6-6 (11)	- 9 -		10.0		CL	1.5					
				10		End of Boring at	10.0 ft.							
						WATER LEVEL & CAVE-II	N OBSERVATION F	)ATA						
√w	ATER I	ENCC	OUNTERE	D DURIN	IG D		CAVE - IN DEPTH AT		N:	NMR				WET [ DRY [
			L AT COM			NMR I	CAVE - IN DEPTH AF			NMR				DRY L WET [ DRY [
- 1						resent the approximate boundary; gradual trans								ואט

MISCH PRODUCTIONSE   1-43	MP231
143   DISTINGTON MARKER   DATE STATEMENT   11/21/14   DISTINGTON PRODUCT NO.   NORTHWAY   11/21/14   DISTINGTON PRODUCT NO.   NORTHWAY   11/21/14   DISTINGTON PRODUCT NO.   NORTHWAY   DISTINGTON PRODUCT NO.   DISTIN	1 of 1
DITE STAPPILID:   11/2/114   CHEW OFFIET    Ē:	
Marting   Mart	603360.424
SIGNATIVE   COUNTY    wccs	
SS   13   M   2-2-2-5   4     SS   13   M   2-2-2-5   4     SS   SS   SS   SS   SS   SS	DATUM:
20 Rt   3	NA
SS   11   M   2-4-2-4   2   2   2   2   2   2   2   2   2	
SS 11 M 2-4-2-4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Notes
SS 13 M 2-2-2-5 - 4 - 5 - 6 - 5 - 4 - 7 - 5 - 7 - 5 - 7 - 7 - 7 - 7 - 7 - 7	
8 - Wet	
10.0 End of Boring at 10.0 ft.	
WATER LEVEL & CAVE-IN OBSERVATION DATA	
□ WATER ENCOUNTERED DURING DRILLING: NE □ □ CAVE - IN DEPTH AT COMPLETION: NMR	WET DRY
▼ WATER LEVEL AT COMPLETION: NMR	WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	

WISSOT PROJECT NAME  RADIOWAY NAME	P232	М	):	G ID	RIN						1229-04-01		WISDOT PROJECT ID:	on	ortatio	of Transp	ept.	WI E	SCONSIN 35	OEP.
ROADWAYNAME:  DATE STARTED:  1/27/15  DATE CORPLETED:  1/27/15  DATE C	1 of 1										1					WI 53704	ison,	Mad	OF TRANS	AHTW
DATE STARTED:   1/27/15														43	I-		ME:			
THE COMPLETED:  1/27/15  1/27/	115.42°	STING: <b>603</b> 4	<b>1</b> EA		4014					CT NO:		AET								
1/27/15   COS	wccs											MD		15	1/27/					
STATION OF SECTION SECTION SECTION SUPPLIES SECTION SECTION SUPPLIES SECTION SECTION SUPPLIES SECTION SUPPLI	Л:	RTICAL DATU					1	1 in	4			AET		15	1/27/			LETED:		
2412-400STH60B 25 Rt    34 AL 3 AL	N/			/ATION:	ED ELE	REAMB	ST				HAMMER TYPE:	howski	c. Wierzc	e LO	Ozauk				UNTY:	C
SS   10   M   1-2-2-3   2   2   2   2   2   2   2   2   2				'ION:	ELEVA	RFACE	SL	l:	CTION	1/4 1/4 SE	1/4 SECTION:	SECTION:	RANGE:	Rt TO	25'	OFFSET	60B	00STH	ATION <b>2412+</b> (	S
SS 1 10 M 1-2-2-3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	es	Not	Drilling Method	Boulders	Plasticity Index (%)	Liquid Limit (%)	රය chengan යුව (tsf)	Strength Qp	USCS / AASHTO		Origin for	ological (	and Geo	Graphic	Depth (ft)	BLOW COUNTS (N VALUE)	Moisture	RECOVERY (in) (RQD)	SAMPLE IYPE NUMBER	
SS 8 M 26 1-2-2-3 (4) 1-2-2-3 5 1.25			-ISA										S" TOPSOIL			1-2-2-3 (4)		10		
							.25	1.2			sand, trace gravel, stiff	noist, little	LTY CLAY, brown/gray, n		- 4 -	1-2-2-3 (4)		8	SS 2	
- 7 -									CL						- 7-					
SS 3 15 M 3-6-4-6 (10) - 9 - 10.0									SM									15	SS 3	
End of Boring at 10.0 ft.											10.0 IL	Doming at	EIIQ OF							1
WATER LEVEL & CAVE-IN OBSERVATION DATA										АТА	N OBSERVATION D	CAVE-II	WATER LEVEL & (							Ī
□ WATER ENCOUNTERED DURING DRILLING: NE □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	WET [					NMR	:	ON:	ETIC	COMPL	CAVE - IN DEPTH AT		G: NE	IG DF	DURIN	UNTERED	ENCC	ATER I	<u>z</u>   w.	
▼ WATER LEVEL AT COMPLETION: NMR	WET [ DRY [					MR	1	RS:	IOUF	ΓER 0 H	CAVE - IN DEPTH AFT			N: 1	LETIO	L AT COMP	_EVEI	ATER I		_
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded							ted.	pecte	be ex	s should	sition between in-situ soil layer	radual trans								1

Machine   Mach	MISCON	NSIN.	WI E	ept.	of Transp	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	MP233
Martin   M	THE OF THE	ANTON	Mad	ison,	, WI 53704	u.  -											1 of 1
Martin   M				ME:		I-	43										
11/21/14									AET		NO:			4016		63 E	ASTING: 603485.861
Second   S						11/21/	14		MD								wccs
SS   18   W   3-6-9-8   9-1			ETED:			11/21/	14		AET		4	in					ERTICAL DATUM:
SS   12   M   3-3-3-4   4						Ozauk	ee	C. Wierz	chowski							:	NA
SS 12 M 2-4-3-4 2 3-7 (7) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24'	ON <b>14+0</b>	0STH	60B	OFFSET	35'	Rt T	OWNSHIP: RANGE:	SECTION:	1/4 SECTION: 1/	4 1/4 SECTION:	s	URFACE	ELEVA	TION:		
SS 12 M 24-34 2 30 FINE TO MEDIUM SAND, brown, moist, trace silt & gravet, bosse  SS 4 M 8 3-3-3-4 4 5 5 SP  - 6 - 7 \sqrt{2} 882 MEDIUM TO COARSE SAND, brown, wet, medium dense  SS 18 W 3-8-9-8 9 SP  - 6 - 7 \sqrt{2} 802 MEDIUM TO COARSE SAND, brown, wet, medium dense  WATER LEVEL & CAVE-IN OBSERVATION DATA	SAMPLETYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	and Ge	ological C	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
SS 4 M 3-3-3-4 4			12													HSA	
SS   18   W   3-6-9-8   9   10.0   End of Boring at 10.0 ft.	\$	SS 2	4		3-3-3-4 (6)	- 4 -			brown, moi	st, trace silt & gravel, loose							
SS 3 18 W 3-6-9-8 17 10.0 End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA   WATER ENCOUNTERED DURING DRILLING: 7.5ft.  WATER LEVEL AT COMPLETION: NMR  MEDIUM TO COARSE SAND, brown, wet, medium dense  SP  SP  CAVE - IN DEPTH AT COMPLETION: 8.1ft.  CAVE - IN DEPTH AFTER 0 HOURS: NMR						- 6 - - 7 - ∑		8.0			SP						
WATER LEVEL & CAVE-IN OBSERVATION DATA   ✓ WATER ENCOUNTERED DURING DRILLING: 7.5ft.  ✓ WATER LEVEL AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AT COMPLETION: NMR  ✓ CAVE - IN DEPTH AFTER 0 HOURS: NMR		SS 3	18					MEDIUM TO COARSE SA			SP						
▼       WATER ENCOUNTERED DURING DRILLING: 7.5ft.       Image: Cave - In Depth at Completion: 8.1ft.       WET DEPTH AT COMPLETION: 8.1ft.         ▼       WATER LEVEL AT COMPLETION: NMR       Image: Cave - In Depth After 0 Hours: NMR       NMR								End o	ı bulliğ at	IU.U II.							
▼       WATER ENCOUNTERED DURING DRILLING: 7.5ft.       Image: Cave - In Depth at Completion: 8.1ft.       WET DEPTH AT COMPLETION: 8.1ft.         ▼       WATER LEVEL AT COMPLETION: NMR       Image: Cave - In Depth After 0 Hours: NMR       NMR								WATER LEVEL &	CAVE-II	N OBSERVATION DA	TA						
▼ WATER LEVEL AT COMPLETION: NMR	$\Box$	WA	ATER	ENCC	UNTERED	DURI	NG D					N:	8.1ft.				WET DRY
	_	WA	ATER	EVE	L AT COMF	PLETIO	N:	NMR		CAVE - IN DEPTH AFTE	R 0 HOUR	S:	NMR				WET DRY
2) NE = Not Encountered; NMR = No Measurement Recorded		L ES: 1,	) Stratifi	cation	lines between	soil type	es repr		radual trans								5

3502 Kinsman Blvd. Madison, WI 53704  WISDOT PROJECT NAME:  I-43  ROADWAY NAME:  DRILLING CONTRACTOR:  DRILLING CONTRACTOR:  DRILL RIG:  CONSULTANT PROJECT NO:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LATITUDE:  LONGITU  401840.673  DRILL RIG:  DRILL RIG:  DRILL RIG:  DRILL RIG:  DRILL RIG:  HORIZONTAL DATUM:  VERTICAL  VERTICAL  TO STATE OF THE PROJECT NO:  AET  HOLE SIZE:  HORIZONTAL DATUM:  VERTICAL  VERTICAL  VERTICAL  VERTICAL  TO STATE OF THE PROJECT NO:  AET  HOLE SIZE:  HORIZONTAL DATUM:  VERTICAL  VERTIC	
I-43  ROADWAY NAME:  DRILLING CONTRACTOR:  DATE STARTED:  12/03/14  CREW CHIEF:  DATE COMPLETED:  LOGGED BY:  DRILL RIG:  DRILL RIG:  COORDINATE SYSTEM:  HOLE SIZE:  HORIZONTAL DATUM: VERTICAL  VE	603564.735
AET 401840.673 DATE STARTED: CREW CHIEF: DRILL RIG: COORDINATE SYSTEM:  DATE COMPLETED: LOGGED BY: HOLE SIZE: HORIZONTAL DATUM: VERTICAL	603564.735
12/03/14 MD DATE COMPLETED: LOGGED BY: HOLE SIZE: HORIZONTAL DATUM: VERTICAL	WCC
DATE COMPLETED: HOLE SIZE: HORIZONTAL DATUM: VERTICAL	
12/03/14   AET   4 in	AL DATUM:
COUNTY: LOG QC BY: HAMMER TYPE: STREAMBED ELEVATION:	N.A
STATION OFFSET TOWNSHIP: RANGE: SECTION: 1/4 SECTION: 1/4 1/4 SECTION: SURFACE ELEVATION:	
SAMPLE TYPE NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER (RQD) (RQD) (RQD) Moisture Moisture (RQD) (RQD) (RQD) (RQD) (RQD) ANORTS (N VALUE) (RSD) (RQD) (R) (R) (R) (R) Liquid Limit (%) Plasticity Index (%) Boulders Drilling Method	Notes
SS 7 M 1-3-2-2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
SS 2 13 M 2-3-2-4 (5) FINE TO MEDIUM SAND, brown, moist, trace silt, loose	
- 6 - SP SP Wet	
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: 7.1ft.  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	
- 00	
WATER LEVEL & CAVE-IN OBSERVATION DATA	
WATER ENCOUNTERED DURING DRILLING: 3.9ft.   ☑ CAVE - IN DEPTH AT COMPLETION: 7.1ft.	WET DRY
WATER LEVEL AT COMPLETION: NMR  □ CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.  2) NE = Not Encountered; NMR = No Measurement Recorded	

MARION	350	Jept. 2 Kin	of Transp sman Blv	portatic d.	m	WISDOT PROJECT ID:	1229-04-01				G ID:	MP235
WISDOT PR	Mad	lison	, WI 5370	4	1	WISDOT STRUCTURE ID:  ONSULTANT:	CONSULTANT PROJECT NO:		PAGE NO			1 of 1
		AME:		J-4	I3			NT NO.				
ROADWAY						RILLING CONTRACTOR:	DRILLING CONTRACTOR PROJEC	JI NO:	NORTHIN	4020	18.687	EASTING: 603654.272
DATE STAR				12/03/1	4	REW CHIEF: MD	DRILL RIG:		COORDIN			WCCS
DATE COMP	PLETED:			12/03/1	4	OGGED BY:	HOLE SIZE:	4 in	HORIZON			VERTICAL DATUM:
COUNTY:			OFFSET	Ozauke	e	OG QC BY:  C. Wierzchowski  OWNSHIP: RANGE: SECTION:	HAMMER TYPE: 1/4 SECTION:	1/4 1/4 SECTION:	STREAME			NA
STATION <b>2418+</b>	-00STH	160B	OLIGE	53'	₹t	IVANGE. SECTION.	174 SECTION.	174 174 SECTION.	JOIN ACE	LLLVAI	1014.	
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological ( Each Major Unit / (	Origin for	USCS / AASHTO	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Notes
SS 1	8	M 29	1-3-3-4 (6)	1 -		60" TOPSOIL					H	SA
SS 2	12	M-W 28	2-5-3-8 (8)	3 -		3.0  CLAYEY LOAM, dark brown to black, matter, medium	moist to wet, trace organic	CL-ML				
				- 6 - B		FINE TO MEDIUM SAND, brown, well medium dense	, little gravel, trace silt,	SP				
SS 3	18	W 15	4-10-8-14 (18)	1 9 -		10.0						
				10		End of Boring at	10.0 ft.					
						WATER LEVEL & CAVE-I	N OBSERVATION D	ATA				
∑w	/ATER	ENCC	DUNTERED	DURIN	IG D		CAVE - IN DEPTH AT		7.4ft.			WET  DRY
	/ATER	LEVE	L AT COMI	PLETIO	N:	NMR	CAVE - IN DEPTH AFT	ER 0 HOURS:	NMR			WET DRY
						resent the approximate boundary; gradual transurement Recorded	sition between in-situ soil layers	s should be expecte	ed.			

OEPMI OEPMI	ONSIN. 30E	WI E	ept. Kin	of Trans sman Bl	portation	on	WISDOT PROJECT ID:	1229-04-01					G ID	:	MP236
WICE	TRANSPOR	Mad DJECT NA	ison	, WI 5370	4		WISDOT STRUCTURE ID:	CONSULTANT PROJECT NO:			AGE NO:			- In-	1 of 1
	OT PRO		MVIE:		I-	43	ONSULTANT:  PRILLING CONTRACTOR:	DRILLING CONTRACTOR PROJECT NO:			ORTHIN				ONGITUDE:  ASTING:
	START						REW CHIEF:	DRILL RIG:			OORDIN	40	0508.		603069.176
		LETED:			12/01/	14	OGGED BY:	HOLE SIZE:			ORIZON'			lv	WCCS ERTICAL DATUM:
COUN					12/01/	14	OG QC BY:	HAMMER TYPE:	4 i	in			VATION:	ľ	
		00STH		OFFSET	Ozauk	ee T	C. Wierzchowski  OWNSHIP: RANGE: SECTION:		SECTION:		JRFACE				N/A
24	102+0	00STH	60C		25'	Lt									
SAMPLE TYPE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Des and Geological 0 Each Major Unit / 0	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	<b>Drilling Method</b>	Notes
					1 -	10 21 10 21	12" TOPSOIL 2 41.0						ŀ	-ISA	
	SS 1	15	M 23	1-2-2-4 (4)	- 2 -		SILTY CLAY, reddish brown, moist, lit	tle sand, stiff	CL	1.5					
					3 -		3.0  SILTY CLAY, brown, moist, trace san	d, medium							
	SS 2	15	M 29	1-2-2-3 (4)	- 4 -					0.75					
					- 6 -				CL						
					- 7 -		Very stiff								
	SS 3	7	M 19	3-9-8-12 (17)	2 - 9 -					3.3					
1					10	<u> </u>	10.0 End of Boring at	10.0 ft.							
							WATER LEVEL & CAVE-II	OBSERVATION DATA							
$\overline{\Delta}$	W	ATER	ENC	DUNTERE	D DURIN	NG D	RILLING: NE	CAVE - IN DEPTH AT COMP	PLETION	<b>N</b> :	NMR				WET DRY
$\bar{\mathbf{\Lambda}}$				L AT COM			NMR	CAVE - IN DEPTH AFTER 0			NMR				WET  DRY
NOT							resent the approximate boundary; gradual trans urement Recorded	ition between in-situ soil layers shoul	d be expe	ected.					

ANSCON	151W. U 30	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJE	CT ID:		1229-04-01					RIN	G IE	<b>)</b> :	MP237
THE OFTE	AMSTON	Mad	ison	, WI 53704			WISDOT STRUC	TURE ID:						AGE NO				1 of 1
		JECT NA	ME:		I-	43	ONSULTANT:			CONSULTANT PROJECT NO:				ATITUDE				ONGITUDE:
ROADW							RILLING CONTRACTOR:		AET	DRILLING CONTRACTOR PROJE	CT NO:			ORTHIN	4006	610.2 <sup>-</sup>	18	ASTING: 603040.589
DATE S					1/28/	15	REW CHIEF:		MD	DRILL RIG:					NATE SY			wccs
DATE C	OMPL	ETED:			1/28/	15	OGGED BY:		AET	HOLE SIZE:		4	· in	ORIZON	ITAL DA	TUM:	VI	ERTICAL DATUM:
COUNT	Y:				Ozauk	ee	OG QC BY:	C. Wierzchov	vski	HAMMER TYPE:			S	TREAME	BED ELE	VATION	:	N/
STATIO <b>240</b>	N <b>3+0</b>	0STH	60C	OFFSET	51'	Lt T	OWNSHIP: RANG	GE: SEC	TION:	1/4 SECTION:	1/4 1/4 S	ECTION	S	JRFACE	ELEVA	TION:		
SAMPLETYPE	NOMBEK	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)			Soil / Rock and Geologi Each Major Ui	ical (	Origin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	3	M 30	1-4-2-3 (6)	- 1 -		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										HSA	
5	SS 2	10	M 28	3-3-3-3 (6)	- 4 -		CLAYEY SAND	), reddish brown,	mois	; loose								
					- 6 -							SC						
	SS 3	5	M 15	6-7-5-9 (12)	- 9 -		Medium dense											
					10			End of Bori	ng at	10.0 ft.								
							\\/\TED	FVFL & CAN	/E. II	N OBSERVATION D	٦ΔΤΛ							
$\nabla$	\\/ \	ATED I	FNCC	UNTERED	DI IDI	NG D		LVLL & CAV	/E-II	CAVE - IN DEPTH AT		l FTIC	N.	NMR				WET DRY
<u>∡</u>				L AT COMF			NMR		1255gT	CAVE - IN DEPTH AT				NMR				DRY C WET C DRY C
NOTE								boundary: gradua	l trans	sition between in-situ soil laye				INIVIE				DRY [
							urement Recorded		Juli		. J Ji Juli	. ~0 01	. J J. J. J.					

dao.	SCONSIN 30	350°	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:		1229-04-01				RIN	G II	):	MP238
HTMER	OF TRANSPOR	Mac	lison	, WI 53704			WISDOT STRUCTURE ID:		T			AGE NO				1 of 1
		OJECT NA	ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:	T.110		ATITUD				ONGITUDE:
	ADWAY N						RILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	T NO:		NORTHIN	4008	305.2	49 E	ASTING: 603125.129
	TE STAR				12/01/	14	REW CHIEF:	MD	DRILL RIG:				NATE SY			wccs
DA	TE COMP	PLETED:			12/01/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZON	NTAL DA	TUM:	V	ERTICAL DATUM:
	UNTY:				Ozauk	ee Lo	og QC BY: <b>C. Wierzch</b> o	owski	HAMMER TYPE:		S	TREAME	BED ELE	VATION	:	N/
STA	ATION <b>2405+</b>	00STH	160C	OFFSET	12'	Rt T	OWNSHIP: RANGE: SE	CTION:	1/4 SECTION:	1/4 1/4 SECTIO	N: S	URFACE	ELEVA	TION:		
	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Roc and Geolog Each Major U	gical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
	SS 1	4	M 16	1-3-2-5 (5)	- 1 -		1	noist, F	POSSIBLE FILL, medium	CL					HSA	
	SS 2 SS 2A	12	M 28 M 19	2-4-4-5 (8)	- 4 -		3.5 SILTY CLAY, dark brown to bla	ack, mo	oist, little sand, very stiff		3.8 2.8					
OZAUKEE CO.GPJ 143 8/21/15					- 6 - - 7 -		8.0			CL						
200N/IES/02/AKEEI-43/1229-04-01 - 143 - SIVURSPRING DR 10 SIH 80/GIN 1722-04-01 0ZAUKEE 00 / GPJ 143 87/175	SS 4	22	M 17	5-12-8-17 (20)			SILTY CLAY TO CLAYEY SILT			CL	4.5					
101-143					10 -		End of Bo	oring at	10.0 ft.							
1229-04							WATER LEVEL & CA	\/ <b>=</b> !!	N OBSEDVATION D	ΔΤΔ						
Z KEN 433	7 \	ΔΤΕΡ	FNC	OUNTERED	יוםו וח י	ופ הי			CAVE - IN DEPTH AT		ON:	NMR				WET DRY
Stozauk	_			L AT COMF			NMR	I IISSE	CAVE - IN DEPTH AT			NMR				DRY DRY DRY DRY
	-						resent the approximate boundary; gradu	ual trans								DRY [
							urement Recorded	u ant	settisettiin oka soii layets	DO G.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-				

SE NOONSIN	WI [	ept.	of Transp sman Blv	ortati	on	WISDOT PROJECT ID:	1229-04-01				ВО		G IE	):	MP239
OFTRANS	Mad	lison,	, WI 53704			WISDOT STRUCTURE ID:					PAGE NO				1 of 1
WISDOT PR		AME:		I-	43	CONSULTANT:		CONSULTANT PROJECT NO:			LATITUE				ONGITUDE:
ROADWAY						PRILLING CONTRACTOR:	AET	DRILLING CONTRACTOR PROJEC	CT NO:		NORTHI	4010	005.62	29	ASTING: 603125.484
DATE STAR				12/01/	14	CREW CHIEF:	MD	DRILL RIG:			COORDI				wccs
DATE COMP	PLETED:			12/01/	14	OGGED BY:	AET	HOLE SIZE:		4 in	HORIZO				ERTICAL DATUM:
COUNTY:				Ozauk	ee	og QC BY:  C. Wierzo	chowski	HAMMER TYPE:			STREAM			:	NA
STATION <b>2407+</b>	00STH	60C	OFFSET		0	OWNSHIP: RANGE:	SECTION:	1/4 SECTION:	1/4 1/4 SECT	ION:	SURFAC	E ELEVA	TION:		
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)		and Geo Each Majo	Rock Des ological ( or Unit / (	cription Origin for Comments		Strength Qp	(tsf) Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				_ 1 -			noist, very	stiff						HSA	
SS 1 SS 1A	9	M 7 M 16	4-2-2-4 (4)	- 2 -		Cit Inner				3.	0				
SS 2	16	M 21	3-6-2-6 (8)	- 4 -		Silt lenses				3.2	27				
UKEE CO.GPJ 143 921/15				- 6 -						CL					
COUNTIESOZAMKERI-43/1229-04-01-1-43-SILVERSPRING DR TO STH 60/GHT/1229-04-01/02AUKEE CO.GPJ 143 8/21/15  S. S. S. M. M. M. S. S. W. M. M. S. S. S. S. M. M. M. S.	24	M 21	4-7-5-8 (12)	- 9 -		Gray, trace gravel  10.0  End of	f Boring at	10.0 ft.		2.2	25				
-04-04-															
43/122						WATER LEVEL &	CAVE-II	N OBSERVATION D	ATA						
w ⊈	ATER	ENCC	UNTERED	DURII	NG D	RILLING: NE	園	CAVE - IN DEPTH AT	COMPLE	TION:	NMF	!			WET DRY
W V	ATER	LEVE	L AT COMF	PLETIO	N:	NMR	■	CAVE - IN DEPTH AFT	TER 0 HC	URS:	NMR				WET DRY
NOTES:						resent the approximate boundary; guurement Recorded	radual trans	sition between in-situ soil layer	rs should be	expecte	ed.				

Automorphic	OEP.	SCONSIN.	WI [	Dept.	of Transp	ortati	on	WISDOT I	PROJECT ID:		1229-04-01				BOF		G IE	<b>)</b> :	MP240	
A	MATHER	OFTRANSIO	Mad	lison					STRUCTURE ID:											1 of 1
1200144   1200144   1200145   1200144   1200145   1200				AME:		I-	43													
12-0114   12-0144   12-0									TOR:	AET		ITRACTOR PROJE	CT NO:				4012		78 E	ASTING: 603139.219
1201/14   1201	DA	TE STAR	TED:			12/01/	/14 G	CREW CHIEF:		MD	DRILL RIG:				С	OORDIN	IATE SY	STEM:		wccs
SECOND   Control   Cont	DA	TE COMP	LETED:			12/01/	/14	OGGED BY:		AET	HOLE SIZE:			4		ORIZON	TAL DA	TUM:	VI	ERTICAL DATUM:
Section	CO	UNTY:					L	OG QC BY:	C. Wie	rzchowski	HAMMER TYPI	<u>:</u>			S	TREAMB	ED ELE	VATION	:	N/
Solid   Force   Description   Solid   Page	STA	ATION <b>2409+</b> (	00STH	160C	OFFSET	8'	Rt 1	OWNSHIP:		SECTION:		SECTION:	1/4 1/4 S	ECTION:	SI	JRFACE	ELEVA	TION:		
SS   12   M   4-2-2-3   2   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SS   17   M   3-5-4-7   4   SS   17   M   3-5-4-7   5   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SS   17   M   3-5-4-7   5   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   SS   17   M   3-5-4-7   4   SILTY CLAY, brown, moist, trace sand, very stiff   SS   SS   SS   SS   SS   SS   SS	i i	SAMPLE I YPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic		and G	Geological (	Origin for			USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS   17   M   3-5-4-7   4						<u> </u>	<u>, 1 ()</u>	1.3		oist, trace sar	d, very stiff								HSA	
Gray/brown, very stiff  SS 23 M 4-7-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT C		1 SS	12	33 M	4-2-2-3 (4)			Hard							3.3					
Gray/brown, very stiff  SS 23 M 4-7-5-7 9  End of Boring at 10.0 ft.  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.		SS 2	17		3-5-4-7 (9)										4.3					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER LEVEL & CAVE-IN DEPTH AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	NUKEE CO.GFU 143 8/21/15					- 6 -								CL						
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET LORY  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	143 - SILVERSPRING DR TO STH BUGIN WZZB-04-01 OZ	SS 3	23						·	d of Boring at	10.0 ft.				3.0					
WATER LEVEL & CAVE-IN OBSERVATION DATA  WATER ENCOUNTERED DURING DRILLING: NE  WATER ENCOUNTERED DURING DRILLING: NE  WATER LEVEL AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WATER LEVEL AT COMPLETION: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	-04-01																			
WATER ENCOUNTERED DURING DRILLING: NE  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  CAVE - IN DEPTH AT COMPLETION: NMR  WET DRY  WATER LEVEL AT COMPLETION: NMR  WET DRY  WOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	43/1226							WATE	R LEVEL	& CAVE-I	N OBSEF	RVATION E	DATA							
WATER LEVEL AT COMPLETION: NMR  CAVE - IN DEPTH AFTER 0 HOURS: NMR  NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Ž	<u>z</u>   w.	ATER	ENCC	DUNTERED	DURII	NG D	RILLING: N	1E	<b>B</b>	CAVE - II	N DEPTH AT	COMP	LETIC	N:	NMR				WET DRY
NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.	Z Z	_	ATER	LEVE	L AT COMF	PLETIC	N:	NMR			CAVE - II	N DEPTH AF	TER 0	HOUR	S:	NMR				WET [
2) NE = Not Encountered; NMR = No Measurement Recorded	N									y; gradual tran	sition betweer	in-situ soil laye	ers should	d be exp	ected.					

OED (	CONSIN.	WI [	ept.	of Transp sman Blve	ortati	on	WISDOT PROJECT ID:		1229-04-01			BOF		G IE	):	MP241
ATT MONTO	OF TRANSPOR	Mad	ison	, WI 53704	۵. ا		WISDOT STRUCTURE ID:					AGE NO:				1 of 1
		OJECT NA	ME:		l-	43	ONSULTANT:		CONSULTANT PROJECT NO:	7.110		ATITUDE				ONGITUDE:
	N YAWD.							AET	DRILLING CONTRACTOR PROJEC	T NO:		ORTHIN	401	280.	61 E	ASTING: 603139.079
	E STAR				12/01/	14	REW CHIEF:	MD	DRILL RIG:			OORDIN				wccs
		LETED:			12/01/	14		AET	HOLE SIZE:	4	in	ORIZON				ERTICAL DATUM:
	INTY:				Ozauk	ee	OG QC BY:  C. Wierzchov	wski	HAMMER TYPE:			TREAME			:	NA
STA <sup>*</sup>	TION <b>409+</b>	75STH	60C	OFFSET	8'	Rt T	OWNSHIP: RANGE: SEC	TION:	1/4 SECTION:	1/4 1/4 SECTION:	S	JRFACE	ELEVA	ΓΙΟΝ:		
SAMDI E TVDE	NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock and Geologi Each Major U	ical (	Origin for	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
					+ 1 -		1.3 MEDIUM TO COARSE SAND, Is	orown	moist. trace gravel & silt.						HSA	
$\bigvee$	SS 1 SS 1A	14	M 7 M 25	5-3-2-2 (5)	- 2 -		POSSIBLE FILL, loose			SP						
	SS 2	19	M 21	3-4-3-6 (7)	- 4 -		CLAYEY SILT, brown, moist, tra	ace sa	nd, very stiff		3.25					
					- 6 - ⊻ - 7 -					CL-ML						
	SS 3	16	W 12	2-3-5-4 (8)	- 8 - - 9 -		FINE SAND, gray, moist, trace s			SP						
					-		End of Bori	ing at	ιυ.υ π.							
H							WATER LEVEL & CA\	/E-II	N OBSERVATION D	ATA						
$\nabla$	w	ATER	ENCC	DUNTERED	DURI	NG D			CAVE - IN DEPTH AT (		N:	7.3ft.				WET   DRY
4				L AT COMF			NMR		CAVE - IN DEPTH AFT			NMR				WET DRY
-	TES: 1	1) Stratifi	cation	lines between	soil type	es repi	resent the approximate boundary; gradua	al trans								5
<u></u>	2	2) NE = I	Not En	countered; NN	ΛR = No	Meas	urement Recorded		•							

# Appendix C

**Laboratory Testing** 

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 10/11/14

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Station: 1342+00 Location: 30' Rt Grd. Elev:

Boring No: 33 Sample No. 3 Depth: 8

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Brown Silty Clay, Trace Sand

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC	LIMIT,PL	
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	11	15	19	21	28	
DISH & WET SOIL	31.15	31.31	29.94	20.17	19.97	
-DISH & DRY SOIL	27.11	27.42	26.48	19.49	19.31	
=WT. OF WATER (A)	4.04	3.89	3.46	0.68	0.66	
DISH & DRY SOIL	27.11	27.42	26.48	19.49	19.31	
-WT. OF DISH	14.48	14.49	14.61	14.71	14.43	
=WT. OF DRY SOIL (B)	12.63	12.93	11.87	4.78	4.88	
(A) MOIST = X 100 (B)	31.99	30.09	29.15	14.23	13.52	
NO. OF BLOWS	20	20	35			
formula:I LIQUID LIMIT, LL	1.03 31.10	1.03 29.25	0.96 30.50			
	AVG LIQU	JIDLIMIT	30.28	AVG PL	13.88	
PLASTICITY INDEX,	PI = LL-P	L	16.40			

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/10/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Station: 2010+00 Location: 0 Grd. Elev:

Spled By: AET Tested By: TLP Nat. Mois: 16%

Soil Classification: Brown Silty Clay, trace fien Sand & Gravel, POSSIBLE FILL

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	1	18	23	26	31
DISH & WET SOIL	29.05	26.28	24.81	19.09	18.61
-DISH & DRY SOIL	25.35	23.39	22.38	18.53	18.11
=WT. OF WATER (A)	3.70	2.89	2.43	0.56	0.50
DISH & DRY SOIL	25.35	23.39	22.38	18.53	18.11
-WT. OF DISH	14.76	14.64	14.54	14.70	14.64
=WT. OF DRY SOIL (B)	10.59	8.75	7.84	3.83	3.47
(A) MOIST = X 100 (B)	34.94	33.03	30.99	14.62	14.41
NO. OF BLOWS	20	30	35		
formula:1 LIQUID LIMIT, LL	1.03 33.96	0.98 33.85	0.96 32.43		
	AVG LIQU	JIDLIMIT	33.41	AVG PL	14.52
PLASTICITY INDEX,	PI = LL-P	<b>L</b>		18.90	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/10/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Station: 2070+00 Location: 9' Lt Grd. Elev:

Boring No: \_\_\_\_\_ 44 \_\_\_\_ Sample No. \_\_\_\_ 1 \_\_\_ Depth: \_\_\_\_ 1

Spled By: AET Tested By: TLP Nat. Mois: 4%

Soil Classification: Brown Silty Clay

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC	LIMIT,PL		
TRIAL NO.:	1	2	3	1	2		
DISH NO.:	12	15	22	28	30		
DISH & WET SOIL	28.98	31.30	28.08	19.31	19.98		
-DISH & DRY SOIL	24.92	26.59	24.46	18.61	19.21		
=WT. OF WATER (A)	4.06	4.71	3.62	0.70	0.77		
DISH & DRY SOIL	24.92	26.59	24.46	18.61	19.21		
-WT. OF DISH	14.58	14.50	14.59	14.43	14.59		
=WT. OF DRY SOIL (B)	10.34	12.09	9.87	4.18	4.62		
(A) MOIST = X 100 (B)	39.26	38.96	36.68	16.75	16.67		
NO. OF BLOWS	20	25	35				
formula:I LIQUID LIMIT, LL	1.03 38.17	1.00 38.97	0.96 38.37				
	AVG LIQU	JIDLIMIT	38.51	AVG PL	16.71		
PLASTICITY INDEX,	PI = LL-P		21.80				

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/10/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Spled By: AET Tested By: TLP Nat. Mois: 17%

Soil Classification: Light brown mottled Silty Clay to Clayey Silt, trace fine Sand

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	7	11	19	32	35
DISH & WET SOIL	33.30	32.79	26.12	19.73	20.33
-DISH & DRY SOIL	29.15	28.91	23.88	19.15	19.67
=WT. OF WATER (A)	4.15	3.88	2.24	0.58	0.66
DISH & DRY SOIL	29.15	28.91	23.88	19.15	19.67
-WT. OF DISH	14.59	14.49	14.60	14.43	14.47
=WT. OF DRY SOIL (B)	14.56	14.42	9.28	4.72	5.20
(A) MOIST = X 100 (B)	28.50	26.91	24.14	12.29	12.69
NO. OF BLOWS	13	24	35		
formula:I	1.08	1.00	0.96		
LIQUID LIMIT, LL	26.27	26.77	25.25		
	AVG LIQU	JIDLIMIT	26.10	AVG PL	12.49
PLASTICITY INDEX,	PI = LL-P			13.61	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/10/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Station: 2170-00 Location: 20' Lt Grd. Elev:

Boring No: \_\_\_\_\_\_ 54 \_\_\_\_ Sample No. \_\_\_\_ 3 \_\_\_ Depth: \_\_\_\_ 8'

Spled By: AET Tested By: TLP Nat. Mois: 16%

Soil Classification: Brown-light brown mottled Silty Clay, trace Sand & Gravel

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	9	14	16	33	36
DISH & WET SOIL	30.35	29.00	33.37	19.95	19.43
-DISH & DRY SOIL	26.21	25.22	28.52	19.28	18.79
=WT. OF WATER (A)	4.14	3.78	4.85	0.67	0.64
DISH & DRY SOIL	26.21	25.22	28.52	19.28	18.79
-WT. OF DISH	14.71	14.54	14.58	14.62	14.46
=WT. OF DRY SOIL (B)	11.50	10.68	13.94	4.66	4.33
(A) MOIST = X 100 (B)	36.00	35.39	34.79	14.38	14.78
NO. OF BLOWS	20	25	35		
formula:I LIQUID LIMIT, LL	1.03	1.00 35.41	0.96 36.40		
	AVG LIQU	JIDLIMIT	35.60	AVG PL	14.58
PLASTICITY INDEX,	PI = LL-P			21.02	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/10/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Boring No: 66 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 16%

Soil Classification: Gray brown mottled Silty Clay, trace Sand

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LIQUID LIMIT, LL			PLASTIC LIMIT,PL	
TRIAL NO.:	1	2	3	1	2
DISH NO.:	4	6	10	27	34
DISH & WET SOIL	32.75	25.14	30.39	18.37	18.05
-DISH & DRY SOIL	27.92	22.38	26.35	17.93	17.54
=WT. OF WATER (A)	4.83	2.76	4.04	0.44	0.51
DISH & DRY SOIL	27.92	22.38	26.35	17.93	17.54
-WT. OF DISH	14.67	14.65	14.72	14.67	13.95
=WT. OF DRY SOIL (B)	13.25	7.73	11.63	3.26	3.59
(A) MOIST = X 100 (B)	36.45	35.71	34.74	13.50	14.21
NO. OF BLOWS	20	25	30		
formula:I	1.03	1.00	0.98		
LIQUID LIMIT, LL	35.44	35.72	35.60		
	AVG LIQU	JIDLIMIT	35.58	AVG PL	13.85
PLASTICITY INDEX,	PI = LL-P			21.73	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/11/15

Road: I-43 (Mainline) Limits: N Milwaukee County Line to STH 60

Station: 2400+00 Location: 0 Grd. Elev:

Boring No: \_\_\_\_\_\_ Sample No. \_\_\_\_ 2 \_\_\_ Depth: \_\_\_\_ 3'

Spled By: AET Tested By: TLP Nat. Mois: 22%

Soil Classification: Brown Silty Clay, trace Sand

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC LIMIT,PL	
TRIAL NO.:	1	2	3	1	2
DISH NO.:	32	33	34	35	36
DISH & WET SOIL	31.75	33.18	29.63	18.47	18.83
-DISH & DRY SOIL	26.79	28.08	25.47	17.96	18.27
=WT. OF WATER (A)	4.96	5.10	4.16	0.51	0.56
DISH & DRY SOIL	26.79	28.08	25.47	17.96	18.27
-WT. OF DISH	14.43	14.62	13.96	14.47	14.46
=WT. OF DRY SOIL (B)	12.36	13.46	11.51	3.49	3.81
(A) MOIST = X 100 (B)	40.13	37.89	36.14	14.61	14.70
NO. OF BLOWS	16	25	33		
formula:I LIQUID LIMIT, LL	1.06 37.94	1.00	0.96 37.51		
	AVG LIQU	JIDLIMIT	37.79	AVG PL	14.66
PLASTICITY INDEX,	PI = LL-P	L		23.13	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 337+00 Location: 15' Lt Grd. Elev:

Boring No: SR46 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 20%

Soil Classification: Brown mottled Silty Clay, trace Sand & Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LIQUID LIMIT, LL			PLASTIC	PLASTIC LIMIT,PL	
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	34	27	15	11	10	
DISH & WET SOIL	32.42	31.90	29.53	19.27	20.15	
-DISH & DRY SOIL	27.38	27.32	25.74	18.65	19.47	
=WT. OF WATER (A)	5.04	4.58	3.79	0.62	0.68	
DISH & DRY SOIL	27.38	27.32	25.74	18.65	19.47	
-WT. OF DISH	13.95	14.67	14.51	14.50	14.73	
=WT. OF DRY SOIL (B)	13.43	12.65	11.23	4.15	4.74	
(A) MOIST = X 100 (B)	37.53	36.21	33.75	14.94	14.35	
NO. OF BLOWS	20	27	35			
formula:I LIQUID LIMIT, LL	1.03	0.99 36.59	0.96 35.31			
	AVG LIQU	JIDLIMIT	36.13	AVG PL	14.64	
PLASTICITY INDEX,	PI = LL-P			21.48		

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1339+02 Location: 17' Rt Grd. Elev:

Boring No: SR53 Sample No. 4 Depth: 8

Spled By: AET Tested By: TLP Nat. Mois: 13%

Soil Classification: Brown Clayey Silt, trace fine Sand & Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L PLASTIC		LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	12	9	6	4	1
DISH & WET SOIL	30.33	31.57	34.92	20.93	20.75
-DISH & DRY SOIL	27.81	28.93	31.83	20.28	20.11
=WT. OF WATER (A)	2.52	2.64	3.09	0.65	0.64
DISH & DRY SOIL	27.81	28.93	31.83	20.28	20.11
-WT. OF DISH	14.59	14.72	14.65	14.69	14.77
=WT. OF DRY SOIL (B)	13.22	14.21	17.18	5.59	5.34
(A) MOIST = X 100 (B)	19.06	18.58	17.99	11.63	11.99
NO. OF BLOWS	20	25	35		
formula:I LIQUID LIMIT, LL	1.03 18.53	1.00 18.59	0.96 18.82		
	AVG LIQU	JIDLIMIT	18.64	AVG PL	11.81
PLASTICITY INDEX,	PI = LL-P	L		6.84	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1339+02 Location: 17' Rt Grd. Elev:

Boring No: SR53 Sample No. 5 Depth: 13

Spled By: AET Tested By: TLP Nat. Mois: 22%

Soil Classification: Gray Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	LIMIT,PL	
TRIAL NO.:	1	2	3	1	2
DISH NO.:	20	17	13	5	3
DISH & WET SOIL	32.50	30.94	30.00	19.91	19.82
-DISH & DRY SOIL	27.78	26.80	26.24	19.25	19.17
=WT. OF WATER (A)	4.72	4.14	3.76	0.66	0.65
DISH & DRY SOIL	27.78	26.80	26.24	19.25	19.17
-WT. OF DISH	14.59	14.60	14.78	14.72	14.65
=WT. OF DRY SOIL (B)	13.19	12.20	11.46	4.53	4.52
(A) MOIST = X 100 (B)	35.78	33.93	32.81	14.57	14.38
NO. OF BLOWS	20	27	35		
formula:I LIQUID LIMIT, LL	1.03 34.79	0.99 34.29	0.96 34.33		
	AVG LIQUID LIMIT		34.47	AVG PL	14.48
PLASTICITY INDEX,	PI = LL-P	<b>L</b>		19.99	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT.LOST				
LOSSON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1343+56 Location: 20' Rt Grd. Elev:

Boring No: SR54 Sample No. 6 Depth: 18'

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Gray/Brown Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LI	QUID LIMIT, L	L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	29	25	21	8	2	
DISH & WET SOIL	30.07	29.73	28.56	19.34	19.36	
-DISH & DRY SOIL	25.98	25.82	25.03	18.75	18.75	
=WT. OF WATER (A)	4.09	3.91	3.53	0.59	0.61	
DISH & DRY SOIL	25.98	25.82	25.03	18.75	18.75	
-WT. OF DISH	14.62	14.61	14.71	14.77	14.64	
=WT. OF DRY SOIL (B)	11.36	11.21	10.32	3.98	4.11	
(A) MOIST = X 100 (B)	36.00	34.88	34.21	14.82	14.84	
NO. OF BLOWS	19	25	35			
formula:I LIQUID LIMIT, LL	1.04 34.77	1.00	0.96 35.79			
,	AVG LIQU	IDLIMIT	35.15	AVG PL	14.83	
PLASTICITY INDEX,	PI = LL-PI	_		20.32		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Boring No: \_\_\_\_\_ SR55 \_\_\_\_ Sample No. \_\_\_ 2 \_\_\_ Depth: \_\_\_ 3

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Brown mottled Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	1	5	R	B1	K
DISH & WET SOIL	26.78	28.74	24.97	16.27	16.82
-DISH & DRY SOIL	22.46	24.06	21.37	15.56	16.06
=WT. OF WATER (A)	4.32	4.68	3.60	0.71	0.76
DISH & DRY SOIL	22.46	24.06	21.37	15.56	16.06
-WT. OF DISH	11.31	10.91	10.90	10.87	10.93
=WT. OF DRY SOIL (B)	11.15	13.15	10.47	4.69	5.13
(A) MOIST = X 100 (B)	38.74	35.59	34.38	15.14	14.81
NO. OF BLOWS	20	29	35		
formula:I LIQUID LIMIT, LL	1.03 37.66	0.98 36.31	0.96 35.97		
	AVG LIQU	JID LIMIT	36.65	AVG PL	14.98
PLASTICITY INDEX,	PI = LL-P	L	,	21.67	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/19/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1320+00 Location: 20' Rt Grd. Elev:

Boring No: SR56 Sample No. 3 Depth: 6'

Spled By: AET Tested By: TLP Nat. Mois: 17%

Soil Classification: Brown Silty Clay, trace Sand & Gravel, Hard

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LI	IQUID LIMIT, L	.L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	1	5	B1	K	R	
DISH & WET SOIL	26.80	25.70	24.94	15.23	16.17	
-DISH & DRY SOIL	22.65	21.79	21.27	14.67	15.47	
=WT. OF WATER (A)	4.15	3.91	3.67	0.56	0.70	
DISH & DRY SOIL	22.65	21.79	21.27	14.67	15.47	
-WT. OF DISH	11.32	10.91	10.87	10.95	10.92	
=WT. OF DRY SOIL (B)	11.33	10.88	10.40	3.72	4.55	
(A) MOIST = X 100 (B)	36.63	35.94	35.29	15.05	15.38	
NO. OF BLOWS	20	25	34			
formula:I LIQUID LIMIT, LL	1.03 35.61	1.00 35.95	0.96 36.78			
	AVG LIQU	JIDLIMIT	36.11	AVG PL	15.22	
PLASTICITY INDEX,	PI = LL-P	_		20.89		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/19/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1325+00 Location: 20' Rt Grd. Elev:

Boring No: SR57 Sample No. 5 Depth: 11'

Spled By: AET Tested By: TLP Nat. Mois: 20%

Soil Classification: Gray Silty Clay, trace Gravel, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2
DISH NO.:	29	28	23	8	3
DISH & WET SOIL	31.43	27.60	29.62	19.17	19.87
-DISH & DRY SOIL	26.91	24.20	25.88	18.62	19.22
=WT. OF WATER (A)	4.52	3.40	3.74	0.55	0.65
DISH & DRY SOIL	26.91	24.20	25.88	18.62	19.22
-WT. OF DISH	14.63	14.42	14.54	14.77	14.66
=WT. OF DRY SOIL (B)	12.28	9.78	11.34	3.85	4.56
(A) MOIST = X 100 (B)	36.81	34.76	32.98	14.29	14.25
NO. OF BLOWS	16	25	35		
formula:I LIQUID LIMIT, LL	1.06 34.80	1.00 34.78	0.96 34.51		
	AVG LIQU	JIDLIMIT	34.69	AVG PL	14.27
PLASTICITY INDEX,	PI = LL-P			20.42	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/19/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1325+00 Location: 20' Rt Grd. Elev:

Boring No: SR57 Sample No. 6 Depth: 13'

Spled By: AET Tested By: TLP Nat. Mois: 22%

Soil Classification: Gray Silty Clay, trace Gravel, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	35	34	33	2	1	
DISH & WET SOIL	30.05	29.46	29.21	20.16	20.54	
-DISH & DRY SOIL	25.86	25.47	25.61	19.46	19.83	
=WT. OF WATER (A)	4.19	3.99	3.60	0.70	0.71	
DISH & DRY SOIL	25.86	25.47	25.61	19.46	19.83	
-WT. OF DISH	14.49	13.97	14.62	14.65	14.77	
=WT. OF DRY SOIL (B)	11.37	11.50	10.99	4.81	5.06	
(A) MOIST = X 100 (B)	36.85	34.70	32.76	14.55	14.03	
NO. OF BLOWS	17	30	35			
formula:I LIQUID LIMIT, LL	1.05 35.10	0.98 35.55	0.96 34.27			
	AVG LIQU	JIDLIMIT	34.98	AVG PL	14.29	
PLASTICITY INDEX,	PI = LL-P			20.68		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT.LOST				
LOSSON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/19/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1334+00 Location: 9' Rt Grd. Elev:

Boring No: SR59 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 23%

Soil Classification: Gray Silty Clay, trace fine Gravel, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	36	27	26	13	12	
DISH & WET SOIL	31.42	30.25	28.82	19.94	19.98	
-DISH & DRY SOIL	26.86	26.15	25.20	19.29	19.31	
=WT. OF WATER (A)	4.56	4.10	3.62	0.65	0.67	
DISH & DRY SOIL	26.86	26.15	25.20	19.29	19.31	
-WT. OF DISH	14.47	14.68	14.71	14.79	14.59	
=WT. OF DRY SOIL (B)	12.39	11.47	10.49	4.50	4.72	
(A) MOIST = X 100 (B)	36.80	35.75	34.51	14.44	14.19	
NO. OF BLOWS	20	25	35			
formula:I LIQUID LIMIT, LL	1.03 35.78	1.00 35.76	0.96 36.11			
	AVG LIQU	JIDLIMIT	35.88	AVG PL	14.32	
PLASTICITY INDEX,	PI = LL-P			21.56		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/19/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 1343+00 Location: 7' Rt Grd. Elev:

Boring No: SR61 Sample No. 3 Depth: 8'

Spled By: TLP Nat. Mois: 19%

Soil Classification: Gray mottled Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	25	22	20	17	5	
DISH & WET SOIL	31.85	30.12	33.23	20.54	20.76	
-DISH & DRY SOIL	27.28	26.16	28.60	19.77	20.00	
=WT. OF WATER (A)	4.57	3.96	4.63	0.77	0.76	
DISH & DRY SOIL	27.28	26.16	28.60	19.77	20.00	
-WT. OF DISH	14.61	14.60	14.61	14.62	14.74	
=WT. OF DRY SOIL (B)	12.67	11.56	13.99	5.15	5.26	
(A) MOIST = X 100 (B)	36.07	34.26	33.10	14.95	14.45	
NO. OF BLOWS	20	30	34			
formula:1 LIQUID LIMIT, LL	1.03 35.06	0.98 35.10	0.96 34.49			
	AVG LIQU	JIDLIMIT	34.89	AVG PL	14.70	
PLASTICITY INDEX,	PI = LL-P			20.19		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/20/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 23+00 Location: 35' Rt Grd. Elev:

Boring No: SR65 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 21%

Soil Classification: Brown mottled Silty Clay to Clayey Silt, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	30	21	18	6	4	
DISH & WET SOIL	30.51	27.87	27.51	19.18	19.09	
-DISH & DRY SOIL	25.87	24.11	23.93	18.55	18.46	
=WT. OF WATER (A)	4.64	3.76	3.58	0.63	0.63	
DISH & DRY SOIL	25.87	24.11	23.93	18.55	18.46	
-WT. OF DISH	14.60	14.71	14.64	14.66	14.67	
=WT. OF DRY SOIL (B)	11.27	9.40	9.29	3.89	3.79	
(A) MOIST = X 100 (B)	41.17	40.00	38.54	16.20	16.62	
NO. OF BLOWS	17	30	35			
formula:1 LIQUID LIMIT, LL	1.05 39.22	0.98 40.99	0.96 40.32			
	AVG LIQU	JIDLIMIT	40.17	AVG PL	16.41	
PLASTICITY INDEX,	PI = LL-P			23.77		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/20/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Boring No: \_\_\_\_\_ Sample No. \_\_\_\_ 3 \_\_\_ Depth: \_\_\_\_ 8'

Spled By: AET Tested By: TLP Nat. Mois: 17%

Soil Classification: Gray mottled Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2
DISH NO.:	36	35	34	17	5
DISH & WET SOIL	32.60	28.07	26.54	19.61	19.89
-DISH & DRY SOIL	27.62	24.44	23.32	19.00	19.27
=WT. OF WATER (A)	4.98	3.63	3.22	0.61	0.62
DISH & DRY SOIL	27.62	24.44	23.32	19.00	19.27
-WT. OF DISH	14.48	14.49	13.97	14.62	14.74
=WT. OF DRY SOIL (B)	13.14	9.95	9.35	4.38	4.53
(A) MOIST = X 100 (B)	37.90	36.48	34.44	13.93	13.69
NO. OF BLOWS	14	25	30		
formula:I	1.08	1.00	0.98		
LIQUID LIMIT, LL	35.25	36.50	35.29		
	AVG LIQU	JIDLIMIT	35.68	AVG PL	13.81
PLASTICITY INDEX,	PI = LL-P	L		21.87	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/20/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Boring No: \_\_\_\_\_ Sample No. \_\_\_\_ 4 \_\_\_ Depth: \_\_\_\_13'

Spled By: AET Tested By: TLP Nat. Mois: 22%

Soil Classification: Gray Silty Clay, trace fine Sand, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L PLASTIC		LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	32	25	22	20	12
DISH & WET SOIL	31.50	30.54	26.33	20.23	21.19
-DISH & DRY SOIL	27.33	26.82	23.67	19.54	20.36
=WT. OF WATER (A)	4.17	3.72	2.66	0.69	0.83
DISH & DRY SOIL	27.33	26.82	23.67	19.54	20.36
-WT. OF DISH	14.45	14.64	14.61	14.65	14.59
=WT. OF DRY SOIL (B)	12.88	12.18	9.06	4.89	5.77
(A) MOIST = X 100 (B)	32.38	30.54	29.36	14.11	14.38
NO. OF BLOWS	15	25	35		
formula:I LIQUID LIMIT, LL	1.07 30.37	1.00 30.55	0.96		
	AVG LIQU	JIDLIMIT	30.55	AVG PL	14.25
PLASTICITY INDEX,	PI = LL-P	L		16.30	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/20/15

Road: I-43 (Side Roads) Limits: N Milwaukee County Line to STH 60

Station: 11+90 Location: 20' Lt Grd. Elev:

Boring No: SR78 Sample No. 2 Depth: 3'

Spled By: AET Tested By: TLP Nat. Mois: 29%

Soil Classification: Dark brown Silty Clay, with organics, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LIQUID LIMIT, LL			PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	29	27	26	13	1	
DISH & WET SOIL	29.71	25.28	21.24	18.95	18.69	
-DISH & DRY SOIL	24.64	21.85	19.24	18.29	18.06	
=WT. OF WATER (A)	5.07	3.43	2.00	0.66	0.63	
DISH & DRY SOIL	24.64	21.85	19.24	18.29	18.06	
-WT. OF DISH	14.64	14.68	14.72	14.80	14.76	
=WT. OF DRY SOIL (B)	10.00	7.17	4.52	3.49	3.30	
(A) MOIST = X 100 (B)	50.70	47.84	44.25	18.91	19.09	
NO. OF BLOWS	20	29	35			
formula:I LIQUID LIMIT, LL	1.03 49.29	0.98 48.80	0.96 46.29			
	AVG LIQU	JIDLIMIT	48.13	AVG PL	19.00	
PLASTICITY INDEX,	PI = LL-P	L		29.13		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/11/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2088+00 Location: 70' Lt Grd. Elev:

Boring No: MP32 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Light brown Silty Clay, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LI	IQUID LIMIT, L	L	PLASTIC	PLASTIC LIMIT,PL	
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	12	15	16	22	28	
DISH & WET SOIL	30.44	30.13	32.74	18.48	18.70	
-DISH & DRY SOIL	25.95	25.96	27.94	17.99	18.14	
=WT. OF WATER (A)	4.49	4.17	4.80	0.49	0.56	
DISH & DRY SOIL	25.95	25.96	27.94	17.99	18.14	
-WT. OF DISH	14.58	14.51	14.59	14.61	14.44	
=WT. OF DRY SOIL (B)	11.37	11.45	13.35	3.38	3.70	
(A) MOIST = X 100 (B)	39.49	36.42	35.96	14.50	15.14	
NO. OF BLOWS	19	25	35			
formula:I LIQUID LIMIT, LL	1.04 38.14	1.00	0.96 37.62			
	AVG LIQU	JIDLIMIT	37.40	AVG PL	14.82	
PLASTICITY INDEX,	PI = LL-P			22.58		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/11/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2099+00 \_\_\_\_ Location: 90' Rt Grd. Elev: \_\_\_\_

Boring No: MP37 Sample No. 2 Depth: 3'

Spled By: AET Tested By: TLP Nat. Mois: 27%

Soil Classification: Gray/red/nrown mottled Clayey Silt, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LIQUID LIMIT, LL			PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2	
DISH NO.:	1	6	27	30	31	
DISH & WET SOIL	32.55	28.29	28.85	18.34	18.66	
-DISH & DRY SOIL	26.84	23.94	24.35	17.83	18.08	
=WT. OF WATER (A)	5.71	4.35	4.50	0.51	0.58	
DISH & DRY SOIL	26.84	23.94	24.35	17.83	18.08	
-WT. OF DISH	14.76	14.65	14.66	14.59	14.63	
=WT. OF DRY SOIL (B)	12.08	9.29	9.69	3.24	3.45	
(A) MOIST = X 100 (B)	47.27	46.82	46.44	15.74	16.81	
NO. OF BLOWS	20	25	32			
formula:1 LIQUID LIMIT, LL	1.03 45.95	1.00 46.84	0.97 48.00			
	AVG LIQU	JIDLIMIT	46.93	AVG PL	16.28	
PLASTICITY INDEX,	PI = LL-P			30.66		

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/11/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2277+00 Location: 75' Lt Grd. Elev:

Boring No: MP106 Sample No. 2 Depth: 3'

Spled By: AET Tested By: TLP Nat. Mois: 14%

Soil Classification: Brown Silty Clay, trace Sand, hard

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	LIMIT,PL	
TRIAL NO.:	1	2	3	1	2
DISH NO.:	14	19	18	23	26
DISH & WET SOIL	32.40	33.93	35.01	18.53	19.62
-DISH & DRY SOIL	28.00	29.27	30.23	18.06	19.02
=WT. OF WATER (A)	4.40	4.66	4.78	0.47	0.60
DISH & DRY SOIL	28.00	29.27	30.23	18.06	19.02
-WT. OF DISH	14.55	14.64	14.59	14.54	14.70
=WT. OF DRY SOIL (B)	13.45	14.63	15.64	3.52	4.32
(A) MOIST = X 100 (B)	32.71	31.85	30.56	13.35	13.89
NO. OF BLOWS	16	23	34		
formula:I LIQUID LIMIT, LL	1.06	1.01 31.52	0.96 31.85		
	AVG LIQU	JIDLIMIT	31.43	AVG PL	13.62
PLASTICITY INDEX,	PI = LL-P			17.81	_

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/17/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 344+00(Port) Location: 130' Rt Grd. Elev:

Boring No: MP158 Sample No. 2 Depth: 3'

Spled By: AET Tested By: TLP Nat. Mois: 27%

Soil Classification: Reddish brown Silty Clay, trace Sand, stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2
DISH NO.:	19	23	26	35	36
DISH & WET SOIL	31.75	29.87	28.27	17.65	18.24
-DISH & DRY SOIL	25.57	24.51	23.55	17.17	17.66
=WT. OF WATER (A)	6.18	5.36	4.72	0.48	0.58
DISH & DRY SOIL	25.57	24.51	23.55	17.17	17.66
-WT. OF DISH	14.61	14.54	14.70	14.47	14.46
=WT. OF DRY SOIL (B)	10.96	9.97	8.85	2.70	3.20
(A) MOIST = X 100 (B)	56.39	53.76	53.33	17.78	18.13
NO. OF BLOWS	20	27	30		
formula:I LIQUID LIMIT, LL	1.03 54.81	0.99 54.33	0.98 54.65		
	AVG LIQUID LIMIT		54.60	AVG PL	17.95
PLASTICITY INDEX,	PI = LL-P	L		36.65	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/17/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2151+00 Location: 25' Rt Grd. Elev:

Boring No: MP185 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Gray/Brown Silty Clay, trace Gravel, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L PLASTIC LIMIT,PL		
TRIAL NO.:	1	2	3	1	2
DISH NO.:	16	18	22	30	31
DISH & WET SOIL	28.97	26.61	31.22	19.65	20.61
-DISH & DRY SOIL	24.94	23.36	26.79	19.11	19.87
=WT. OF WATER (A)	4.03	3.25	4.43	0.54	0.74
DISH & DRY SOIL	24.94	23.36	26.79	19.11	19.87
-WT. OF DISH	14.58	14.64	14.60	14.60	14.64
=WT. OF DRY SOIL (B)	10.36	8.72	12.19	4.51	5.23
(A) MOIST = X 100 (B)	38.90	37.27	36.34	11.97	14.15
NO. OF BLOWS	19	29	32		
formula:I LIQUID LIMIT, LL	1.04 37.57	0.98	0.97 37.56		
LIGOID LIWITI, LL	AVG LIQU		37.72	AVG PL	13.06
PLASTICITY INDEX,	PI = LL-P			24.66	

## LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Boring No: \_\_\_\_\_\_ Sample No. \_\_\_\_ 3 \_\_\_ Depth: \_\_\_\_ 8'

Spled By: AET Tested By: TLP Nat. Mois: 19%

Soil Classification: Brown Clayey Silt, trace Sand, very stiff

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	.L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	36	35	31	22	18
DISH & WET SOIL	28.99	30.07	25.55	18.50	17.87
-DISH & DRY SOIL	25.23	26.01	22.82	18.00	17.47
=WT. OF WATER (A)	3.76	4.06	2.73	0.50	0.40
DISH & DRY SOIL	25.23	26.01	22.82	18.00	17.47
-WT. OF DISH	14.46	14.46	14.64	14.60	14.63
=WT. OF DRY SOIL (B)	10.77	11.55	8.18	3.40	2.84
(A) MOIST = X 100 (B)	34.91	35.15	33.37	14.71	14.08
NO. OF BLOWS	20	24	35		
formula:I LIQUID LIMIT, LL	1.03 33.94	1.00 34.98	0.96 34.92		
	AVG LIQU	JIDLIMIT	34.61	AVG PL	14.40
PLASTICITY INDEX,	PI = LL-P	L		20.22	

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2264+00 Location: 15' Lt Grd. Elev:

Boring No: MP214 Sample No. 3 Depth: 8'

Spled By: AET Tested By: TLP Nat. Mois: 17%

Soil Classification: Gray/brown Silty Clay to Clayey Silt, trace Sand & Gravel, hard

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	L	IQUID LIMIT, L	L	PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	30	26	19	16	14
DISH & WET SOIL	28.55	32.80	29.42	19.90	19.69
-DISH & DRY SOIL	25.26	28.57	26.02	19.32	19.11
=WT. OF WATER (A)	3.29	4.23	3.40	0.58	0.58
DISH & DRY SOIL	25.26	28.57	26.02	19.32	19.11
-WT. OF DISH	14.59	14.71	14.61	14.58	14.57
=WT. OF DRY SOIL (B)	10.67	13.86	11.41	4.74	4.54
(A) MOIST = X 100 (B)	30.83	30.52	29.80	12.24	12.78
NO. OF BLOWS	19	23	32		
formula:I	1.04	1.01	0.97		
LIQUID LIMIT, LL	29.78	30.20	30.80		
	AVG LIQU	JIDLIMIT	30.26	AVG PL	12.51
PLASTICITY INDEX,	PI = LL-P	= LL-PL 17.76			

# LOSS ON IGNITION, LOI.

TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSS ON IGNITION =X 100				
3.00 Grm				

#### SAMPLE DESCRIPTION

Project ID: 1229-04-01 Date: 03/18/15

Road: I-43 (Marsh Probes) Limits: N Milwaukee County Line to STH 60

Station: 2285+90 Location: 15' Lt Grd. Elev:

Boring No: MP227 Sample No. 2 Depth: 3'

Spled By: AET Tested By: TLP Nat. Mois: 18%

Soil Classification: Light brown Silty Clay, trace Sand, hard

# LIQUID LIMIT & PLASTIC LIMIT

LIQUID LIMIT,LL (AASHO-T-89),Falling cup, 100 gr of P40 Material

PLASTIC LIMIT, PL (AASHO-T-90), 1/8TH" Thread, 8gr of P40 Material

TEST	LIQUID LIMIT, LL			PLASTIC	LIMIT,PL
TRIAL NO.:	1	2	3	1	2
DISH NO.:	33	32	28	23	7
DISH & WET SOIL	29.16	30.99	31.54	19.70	19.22
-DISH & DRY SOIL	25.30	26.68	27.20	19.02	18.64
=WT. OF WATER (A)	3.86	4.31	4.34	0.68	0.58
DISH & DRY SOIL	25.30	26.68	27.20	19.02	18.64
-WT. OF DISH	14.64	14.44	14.43	14.55	14.61
=WT. OF DRY SOIL (B)	10.66	12.24	12.77	4.47	4.03
(A) MOIST = X 100 (B)	36.21	35.21	33.99	15.21	14.39
NO. OF BLOWS	19	25	35		
formula:1 LIQUID LIMIT, LL	1.04 34.97	1.00 35.23	0.96 35.56		
	AVG LIQU	JIDLIMIT	35.25	AVG PL	14.80
PLASTICITY INDEX,	PI = LL-P			20.45	

# LOSS ON IGNITION, LOI.

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TRIAL NO.	1	2	3	4
CRUCIBLE NO:				
WT. CRUCIBLE & OVEN DRIED SOIL				
- WT. CRUCIBLE & IGNITED SOIL				
= WT. LOST				
WT. LOST				
LOSSONIGNITION =X 100				
3.00 Grm				

Project ID 1229-04-01
Highway I-43 Mainline
Project Limits North Milwaukee Co Line to STH 60

Test Boring No. B68 Depth 8
Sample No. 3

Test Date March 22, 2015
Tester TLP

Dry mass before wash Dry mass after wash			246.0 g 221.6 g	
Sieve	Size	Accum	%	%
SI, mm	U.S.	Mass	Retn'd	Passing
40	0 / 4 !!	0.0	0.0	400.000/
19	3/4"	0.0	0.0	100.00%
4.75	#4	0.4	0.2	99.84%
2.000	#10	2.2	0.9	99.11%
0.425	#40	26.2	10.7	89.35%
0.150	#100	178.0	72.4	27.64%
0.075	#200	217.4	88.4	11.63%
PAN		221.6	90.0813	0.099187

Project ID 1229-04-01
Highway I-43 Mainline
Project Limits North Milwaukee Co Line to STH 60

Test Boring No. MP125 Depth 8'
Sample No. 3

Test Date March 22, 2015
Tester TLP

	Dry mass	before wash after wash	185.8 g 63.1 g	
Sieve	Size	Accum	%	%
SI, mm	U.S.	Mass	Retn'd	Passing
19	3/4"	0.0	0.0	100.00%
4.75	#4	0.0	0.0	100.00%
2.000	#10	1.4	0.8	99.25%
0.425	#40	13.5	7.3	92.73%
0.150	#100	37.9	20.4	79.60%
0.075	#200	61.5	33.1	66.90%
PAN		63.1	33.96125	0.660388

Project ID 1229-04-01
Highway I-43 Mainline
Project Limits North Milwaukee Co Line to STH 60

Test Boring No. SR63 Depth 4'
Sample No. 2

Test Date March 22, 2015
Tester TLP

	Dry mass	oefore wash after wash	145.6 g 127.6 g	
Sieve	Size	Accum	%	%
SI, mm	U.S.	Mass	Retn'd	Passing
19	3/4"	0.0	0.0	100.00%
4.75	#4	0.0	0.0	100.00%
2.000	#10	0.0	0.0	100.00%
0.425	#40	0.0	0.0	100.00%
0.150	#100	86.9	59.7	40.32%
0.075	#200	126.9	87.2	12.84%
PAN		127.6	87.63736	0.123626

Project ID 1229-04-01
Highway I-43 Mainline
Project Limits North Milwaukee Co Line to STH 60

Test Boring No. SR67 Depth 4'
Sample No. 2

Test Date March 22, 2015
Tester TLP

	Dry mass	before wash after wash	258.0 g 178.3 g	
Sieve	Size	Accum	%	%
SI, mm	U.S.	Mass	Retn'd	Passing
19	3/4"	0.0	0.0	100.00%
4.75	#4	25.1	9.7	90.27%
2.000	#10	49.3	19.1	80.89%
0.425	#40	103.8	40.2	59.77%
0.150	#100	160.9	62.4	37.64%
0.075	#200	174.7	67.7	32.29%
PAN		178.3	69.10853	0.308915