



SUR 2 IN 110/ NS
 Test Borings - Land - Off-Shore
TESTING AND INSPECTION
 Concrete - Soils - Asphalt - Steel
 Chemical -- Piles - Non-Destructive
 45 Steel Street - Rochester, N. Y. 14606
 Office: 716-458-0821
 Telex: 978-462

B-2

PROJECT NO. 2271 PAGE 1 OF 2 BORING NO. 3152
 PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue
 CLIENT City of Rochester, Department Community Development, Rochester, New York
 ELEVATION 252.00 INSPECTOR - WEATHER -
 DATE STARTED 9/29/80 COMPLETED 9/29/80 TECHNICIAN W. Rice
 GROUND WATER - CASING IN - 5'0" AT COMPLETION 9/29 TIME -
 BELOW SURFACE - CASING OUT - - -WELLPOINT AT -

Water noted at 5'0" while drilling

Seasonal and climatic changes may alter the observed water levels

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER						SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0" 6"	6" 12"	12" 18"	18" 24"	N				
5		14	15					1	0'0"-2'0" 5'	Fill consisting of moist sand, little to some silt, little gravel
				19	10	34				
10		19	9					2	5'0"-7'0" 6'	Firm blue-gray saturated gravel, little sand, little silt
				4	2	13				
15		6	4					3	10'0"-12'0" 12'	Firm gray-brown saturated sand, some gravel, little silt, trace organic
				7	7	11				
20		2	2					4	15'0"-17'0" 15'	Loose black wet to saturated peat with little gray clay, little sand, little silt
				2	3	4				
25		3	2					5	20'0"-22'0" 20'	Loose greenish-gray wet to saturated
				3	4	5				
30		3	3					6	25'0"-27'0" 27'	Loose gray saturated
				4	4	7				
30		2	2					7	28'0"-30'0" 30'	Loose gray wet silt and clay, little organ (peat), little sand
				3	4	5				

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" F
 C = NO. OF BLOWS TO DRIVE - CASING - WITH - LB. WT. -



Test Borings - Land - Off-Shore
TESTING AND INSPECTION
 Concrete - Soils - Asphalt - Steel
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 45 Steel Street - Rochester, N. Y. 14606
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PROJECT NO. 2271

PAGE 2 OF 2 BORING NO. B-2

PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue

CLIENT City of Rochester, Department Community Development, Rochester, New York

ELEVATION _____ INSPECTOR _____ WEATHER _____

DATE STARTED 9/29/80 COMPLETED 9/29/80 TECHNICIAN W. Rice

GROUND WATER - CASING IN - 5'0" AT COMPLETION 9/29 TIME _____

BELOW SURFACE - CASING OUT - _____ -WELLPOINT AT _____

Water noted at 5'0" while drilling

Seasonal and climatic changes may alter the observed water levels

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER					SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0' 6"	6' 12"	12' 18"	18' 24"	N			
								Boring terminated at 30'0" Notes: Advanced test hole with hollow stem auger casing	

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" EA.
 C = NO. OF BLOWS TO DRIVE _____ CASING _____ WITH _____ LB. WT. _____ EA.

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PROJECT NO. 2271 PAGE 1 OF 2 BORING NO. 887
PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue
CLIENT City of Rochester, Department Community Development, Rochester, New York
ELEVATION 260.00 INSPECTOR W. Rice WEATHER _____
DATE STARTED 9/30/80 COMPLETED 9/30/80 TECHNICIAN W. Rice
GROUND WATER - CASING IN - 13'6" AT COMPLETION 9/30 TIME _____
BELOW SURFACE - CASING OUT - _____ -WELLPOINT AT _____

Water noted at 14'6" while drilling
Seasonal and climatic changes may alter the observed water levels

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER					SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0' 6"	6" 12"	12" 18"	18" 24"	N			
5		5	8				1	1'0"-3'0"	Asphalt pavement 0 Base course - silty gravel 0 Firm dark brown-black moist silt, little fine sand, little clay, trace to little organic (possible fill) 2
		75				75	2	5'0"-5'6"	Firm brown moist silt, trace fine sand, trace clay (possible fill) 3
10		6				6			Very dense brown moist sand, little silt
		50				50	3	10'0"-10'11"	Very dense (no recovery) pushing cobbles 11
15									Very dense to dense gray-black moist to gravel, little to some sand, little silt little organic 14
		29	27					15'0"-17'0"	Hard black-brown saturated peat, little 16
20				21	12	48	4		Loose black-brown saturated peat, little clay
		2	3					20'0"-22'0"	Loose black-brown saturated
25				3	4	6	5		
									Loose black-brown saturated 26'
30		2	3					25'0"-27'0"	Loose gray wet silt, little to some clay, trace organic
				3	4	6	6		

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" EA.
C = NO. OF BLOWS TO DRIVE _____ CASING _____ WITH _____ LB. WT. _____ EA.

PROJECT NO. 2271 PAGE 2 OF 2 BORING NO. B-7
PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue
CLIENT City of Rochester, Department Community Development, Rochester, New York
ELEVATION 260.00 INSPECTOR _____ WEATHER _____
DATE STARTED 9/30/80 COMPLETED 9/30/80 TECHNICIAN W. Rice
GROUND WATER - CASING IN - 13'6" AT COMPLETION 9/30 TIME _____
BELOW SURFACE - CASING OUT - _____ -WELLPOINT AT _____

Water noted at 14'6" while drilling
Seasonal and climatic changes may alter the observed water levels

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER					SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0' 6"	6' 12"	12' 18"	18' 24"	N			
		2	3						
				3	4	6	7	30'0"-32'0"	Loose gray wet 31
									Loose brown saturated silt, little clay 32
35									

Boring terminated at 32'0"
Notes: Advanced test hole with hollow stem auger casing

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" EA.
C = NO. OF BLOWS TO DRIVE _____ CASING _____ WITH _____ LB. WT. _____ EA.

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PROJECT NO. 2271 PAGE 1 OF 2 BORING NO. 111
 PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue
 CLIENT City of Rochester, Department Community Development, Rochester, New York
 ELEVATION 273.00 INSPECTOR W. Rice WEATHER
 DATE STARTED 9/30/80 COMPLETED 9/30/80 TECHNICIAN W. Rice
 GROUND WATER - CASING IN - 11'0" AT COMPLETION 9/30 TIME
 BELOW SURFACE - CASING OUT - -WELLPOINT AT

Water noted at 11'6" while drilling
 Seasonal and climatic changes may alter the observed water levels

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER						SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0' 6"	4' 12"	12' 18"	18' 24"	N				
		4	5						Topsoil 0'	
				9	15	14	1	0'0"-2'0"	Firm light brown damp to moist silt, little clay 5'	
5		14	21							
				29	30	50	2	5'0"-7'0"	Dense light brown damp to moist uniforml; graded silt, trace of clay 10'	
10		9	16							
				10	14	26	3	10'0"-12'0"	Compact gray wet uniformly grade silt, lenses of silty clay Saturated at 11'9" 18'	
15		3	4							
				4	5	8	4	15'0"-17'0"	Loose gray wet 18'	
20		7	9							
				8	9	17	5	20'0"-22'0"	Firm gray wet to saturated silt and clay 28'	
25									Firm gray wet	
		4	5							
				6	6	12	6	25'0"-27'0"	Firm gray wet 28'	
30		8	12							
				9	8	21	7	28'0"-30'0"	Firm reddish-gray saturated silt, little trace to little gravel 30'	

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" EA.
 C = NO. OF BLOWS TO DRIVE CASING WITH LB. WT. EA.

PROJECT NO. 2271 PAGE 2 OF 2 BORING NO. B-11
PROJECT Subsurface Exploratory Drilling, Former Rochester Port Authority, Lake Avenue
CLIENT City of Rochester, Department Community Development, Rochester, New York
ELEVATION _____ INSPECTOR _____ WEATHER _____
DATE STARTED 9/30/80 COMPLETED 9/30/80 TECHNICIAN W. Rice
GROUND WATER - CASING IN - 11'0" AT COMPLETION 9 30 TIME
BELOW SURFACE - CASING OUT - _____ -WELLPOINT AT _____

Water noted at 11'6" while drilling

Seasonal and climatic changes may alter the observed water levels.

DEPTH BELOW SURFACE	C	BLOWS ON SAMPLER						SAMPLE NO.	DEPTH OF SAMPLE	SOIL AND ROCK CLASSIFICATION REMARKS
		0' 6"	6' 12"	12' 18"	18' 24"	N				
										Boring terminated at 30'0" Notes: Advanced test hole with hollow stem auger casing

NOTES: N = NO. OF BLOWS TO DRIVE 2" SPOON 12" WITH 140 LB. WT. 30" EA.
C = NO. OF BLOWS TO DRIVE _____ CASING _____ WITH _____ LB. WT. _____ EA.

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Client: Erdman Anthony Associates, P.C.
 Date Started: 8/9/82
 Date Completed: 8/10/82
 Driller: Art Utter
 Inspector: Donna Sexton

Project No.: CA1132
 Boring No.: 13
 Surface Elev.: 251.50
 Groundwater Depth-Casing In:
 Below Ground Surf.-Casing Out: 7.1'

Sheet 1 of 2

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER				N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"		
0							Asphalt .25'	
							Black ashes, cinders 1.75'	
							Crushed stone 4.0'	
5	4.0'-5.5'	1	12	7	5	12	(FILL) Brown damp fine sand, some fine gravel, brick fragments 7.0'	
							Brown wet silt, little sand, trace of gravel 10.0'	
10	9.0'-10.5'	2	1	1	12	13	Gray saturated silty fine sand, trace of gravel	
15	14.0'-15.5'	3	6	14	22	36	Gray saturated fine sand, traces of silt, coarse to medium sand, fine gravel	
20	19.0'-20.5'	4	1	10	15	25	Gray saturated alternating layers of silty fine sand, gravelly sand, and fine sandy silt, trace of wood 23.0'	
25	24.0'-25.5'	5	3	5	7	12	Gray saturated fine sandy silt, trace little wood	
30	29.0'-30.5'	6	2	3	5	8	Gray saturated silt, little clay, trace to little sand	
35	34.0'-35.5'	7	3	3	3	6	Gray varved silty clay and clay, trace of organic material, trace of sand	
40	39.0'-40.5'	8	6	7	7	14	Gray silt, little clay, little organic material	

N = No. of blows to drive 2" spoon 12" w/ 140 lb. weight 30" each blow.

Casing Type: hollow stem auger

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Client: Erdman Anthony Associates, P.C.
Date Started: 8/10/82
Date Completed: 8/10/82
Driller: Art Utter
Inspector: Donna Sexton

Project No.: CA1132
Boring No.: 14
Surface Elev.: 251.47
Groundwater Depth-Casing In:
Below Ground Surf.-Casing Out: 7.0'

Sheet 1 of 2

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER					N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"			
0								Asphalt .5	
								Crushed stone, little sand and silt. 3.0	
5	4.5-6.0'	1	10	7	6	13		Reddish-brown damp fine sand, little fine gravel. 8.0	
								Concrete 9.8	
10	9.8-11.3'	2	4	9	11	20		Gray saturated medium to fine sand, trace of silt. 18.5	
15	14.0-15.5'	3	8	12	12	24		Gray saturated medium to fine sand. 18.5	
20	19.0-20.5'	4	3	2	3	5		Reddish brown saturated coarse to fine sand and fine gravel, trace silt. 28.5'	
25	24.0-25.5'	5	2	1	1	2		Reddish brown saturated coarse to fine sand. 28.5'	
30	29.0-30.5'	6	3	4	3	7		Gray silt, traces of sand, clay, organic material. 28.5'	
35	34.0-35.5'	7	4	4	6	10		Gray silt, traces of sand, clay, organic material. 28.5'	
40	39.0-40.5'	8	4	4	6	10		Gray silt, traces of sand, clay, organic material.	

N = No. of blows to drive 2" spoon 12" w/ 140lb. weight 30" each blow.
 Casing Type: hollow stem auger

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Client: Erdman Anthony Associates, P.C.
 Date Started: 8/10/82
 Date Completed: 8/11/82
 Driller: Art Utter
 Inspector: Donna Sexton

Project No.: CA1132
 Boring No.: 15
 Surface Elev.: 247.88
 Groundwater Depth-Casing In:
 Below Ground Surf.-Casing Out: 4.0'

Sheet 1 of 2

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER				N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"		
0								Brown damp fine sand, some coarse sand and crushed stone.
5	4.0-5.5'	1	5	7	11	18	4.0'	Brown wet fine sand, some wood, little fine gravel.
10	9.0-10.5'	2	17	19	25	44		Brown saturated coarse to fine sand, little wood.
15	14.0-15.5'	3	9	18	24	42	18.0'	Gray with black wood, sand, silt, gravel.
20	19.0-20.5'	4	2	2	3	5		Gray silt, little clay, little organic material.
25	24.0-25.5'	5	3	2	3	5		Gray silt, trace of clay, trace of sand.
30	29.0-30.5'	6	1	1	1	2		Gray silt, trace of organic material.
35	34.0-35.5'	7	2	2	3	5		Gray silt, trace of organic material, trace of clay.
40	39.0-40.5'	8	3	4	3	7		Gray silt, trace of organic material, trace of clay.

N = No. of blows to drive 2" spoon 12" w/ 140 lb. weight 30" each blow.
 Casing Type: hollow stem auger

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Project No.: CA1132
 Boring No.: 16
 Surface Elev.: 251.09

Client: Erdman Anthony Associates, P.C.
 Date Started: 8/11/82
 Date Completed: 8/11/82
 Driller: Art Utter
 Inspector: Donna Sexton

Groundwater Depth-Casing In:
 Below Ground Surf.-Casing Out: 5.5'

Sheet 1 of 2

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER				N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"		
0								Concrete 0.25'
								Black damp ashes, cinders, some fine gravel.
5	4.0-5.5'	1	12	52	71	123		4.5'
								Reddish brown medium to fine sand, trace to little silt. 5.5'
								Black saturated cinders, little silt. 9.5'
10	9.0-11.5'	2	3	3	4	7		Gray silt, trace of clay.
15	14.0-15.5'	3	2	2	3	5		Gray silt, little organic material, trace of clay, trace of sand. 17.0'
20	19.0-20.5'	4	4	7	6	13		Gray fine sand.
25	24.0-25.5'	5	2	2	2	4		Brown medium to fine sand. 24.5'
								Gray silt, trace of clay, trace of organic material.
30	29.0-30.5'	6	2	3	3	6		Gray silt, trace of clay, trace of organic material.
35	33.0-35.0'	7	Tube No. 1					Gray silt, trace of clay, trace of organic material.
	35.0-37.0'	8	Tube No. 2					Gray silt, trace of clay, trace of organic material.
40	39.0-40.5'	9	2	2	2	4		Gray silt, trace of clay, trace of organic material.

N = No. of blows to drive 2" spoon 12" w/140 lb. weight 30" each blow.

Casing Type: hollow stem auger

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Project No.: CA1132
 Boring No.: 16
 Surface Elev.: 251.09

Client: Erdman Anthony Associates, P.C.
 Date Started: 8/11/82
 Date Completed: 8/11/82
 Driller: Art Utter
 Inspector: Donna Sexton

Groundwater Depth-Casing In:
 Below Ground Surf.-Casing Out: 5.5'

Sheet 2 of 2

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER				N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"		
40								
45	44.0-45.4'	10	3	4	4	8	Gray silt, trace of clay, trace of organic material.	
50	49.0-50.5'	11	5	6	5	11	Gray silt, trace of clay, trace of organic material.	
55	54.0-55.5'	12	4	4	5	9	Gray silt, trace of clay, trace of organic material.	
60	59.0-60.5'	13	4	6	7	13	Gray silt, trace of clay, trace of organic material, fine sand. Boring terminated at 60.5'	

N = No. of blows to drive 2" spoon 12" w/ 140 lb. weight 30" each blow.
 Casing Type: hollow stem auger

CATOH Environmental Companies, Inc.
 One Industrial Place, Savannah, New York 13146
 Phone: 315/365-2891

Project: Port of Rochester
 Ontario Beach Development

Project No.: CA1132
 Boring No.: 17
 Surface Elev.: 247.87

Client: Erdman Anthony Associates, P.C.
 Date Started: 8/12/82
 Date Completed: 8/12/82
 Driller: Art Utter
 Inspector: Donna Sexton

Groundwater Depth-Casing In:
 Below Ground Surf.-Casing Out: 3.0'

Sheet 1 of 1

DEPTH	SAMPLE DEPTH	SAMPLE NO.	BLOWS ON SAMPLER				N	MATERIAL DESCRIPTION
			0" 6"	6" 12"	12" 18"	18" 24"		
0								Brown silty sand and gravel.
5	4.0-5.5'	1	6	5	6	11		5.0' Black saturated cinders and ashes.
10	9.0-10.5'	2	8	6	6	12		9.5' Gray saturated medium to fine sand, trace of fine gravel.
15	14.0-15.5'	3	15	8	6	14		Gray saturated medium to fine sand, little gravel.
20	19.0-20.5'	4	2	2	2	4		Brown silt, traces of gravel, clay, organic material.
25	24.0-25.5'	5	4	3	4	7		Gray silt, little organic material, trace of clay.
30	29.0-30.5'	6	4	5	6	11		Gray silt, little organic material, trace of clay. Boring terminated at 30.5'

N = No. of blows to drive 2" spoon 12" w/ 140 lb. weight 30" each blow.
 Casing Type: hollow stem auger
 C-16

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #1
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 1/11/00
PROJECT: Port of Rochester			ELEVATION: LABELLA REP: DEP	
LOCATION: South Test Pit for Bourne				
CLIENT: City of Rochester				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE		SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	SAMPLE	DEPTH		
FEET	NUMBER	RANGE		
1			Blacktop	0 ppm no odor
2			Gravel/Sub-base	0 ppm no odor
3			cinders/fill mixed with foundry slag byproducts (blue with sulfur odor)	0 ppm no odor
4				0 ppm no odor
5				0 ppm no odor
6			beginning of angled pour	0 ppm no odor
7			tie-back	0 ppm no odor
8			groundwater level up to approx 7.5'	0 ppm no odor
9			concrete deck	0 ppm no odor
10			concrete deck	0 ppm no odor
11				0 ppm no odor
12			Test pit terminated at approx. 11'+/-	
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
		20'x20'x11'		
* Hrs. after completion			TEST PIT #1	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #2a
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 1/12/00
PROJECT: Port of Rochester			ELEVATION:	
LOCATION: Bourne Test Pit #2a			LABELLA REP: DEP	
CLIENT: City of Rochester				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			Blacktop	0 ppm no odor
2			Gravel/Sub-base	0 ppm no odor
3			silt/cinders and misc. fill	0 ppm no odor
4			start of petroleum odor in fill	
5				no instrument medium/strong odor
6			tie- back/concrete dead man groundwater at approx 5.5'	no instr. - stronger petrol. Odor on west side of sheet piles
7				
8			test pit terminated at approximately 7.5'-8'	no instrument no odor
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH	20'x20'x11'	
* Hrs. after completion			TEST PIT #2a	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #2b
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 1/12/00
PROJECT: Port of Rochester			ELEVATION:	
LOCATION: Bourne Test Pit #2b			LABELLA REP: DEP	
CLIENT: City of Rochester				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			Blacktop	0 ppm no odor
2			gravel	0 ppm no odor
3			silt/cinders with some gravel	0 ppm no odor
4			foundry slag	0 ppm no odor
5				0 ppm no odor
6				0 ppm no odor
7			saturated zone at 6.5-7' but test pit stayed ahead of standing water	
8				slight odor but no screen 0 ppm
9			test pit terminated at approximately 8.5'	
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH	20'x20'x11'	
* Hrs. after completion			TEST PIT #2b	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #3A
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 1/12/00
PROJECT: Port of Rochester				ELEVATION:
LOCATION: Bourne Test Pit #3A				
CLIENT: City of Rochester				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				LABELLA REP: DEP
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN FEET	NUMBER	DEPTH RANGE		
1			former rail lines still in place under blacktop	0 ppm no odor
2				0 ppm no odor
3		fine sand fill		0 ppm no odor
4				0 ppm no odor
5		fine sand fill		0 ppm no odor
6				0 ppm no odor
7				
8			last 3" +/- of sand is darkly stained (gray/black)	0 ppm no odor
9			concrete slab	
10			concrete slab	
11			concrete slab	
12			concrete slab	
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion				TEST PIT #3

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #3B
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 1/12/00
PROJECT: Port of Rochester			ELEVATION:	
LOCATION: Bourne Test Pit #3B			LABELLA REP: DEP	
CLIENT: City of Rochester				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	NUMBER	DEPTH		
FEET	RANGE			
1			Blacktop	0 ppm creosote odor
2			former rail lines still in place under blacktop	
3			former/active electrical conduit	0 ppm no odor
4			layer of concrete	
5			fine sand - light brown	0 ppm no odor
6				0 ppm no odor
7				0 ppm no odor
8			last 3" +/- of sand is darkly stained (gray/black)	0 ppm no odor
9			concrete slab	
10			concrete slab	
11			concrete slab	
12			concrete slab	
13			14' west of retaining wall	
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH	20'x20'x11'	
* Hrs. after completion			TEST PIT #3	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #4 PROJECT # 99150 DATE: 1/12/00	
PROJECT: Port of Rochester LOCATION: Bourne Test Pit #4 CLIENT: City of Rochester CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP		
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			grass	0 ppm	no odor
2			silt and topsoil	0 ppm	no odor
3			fine sand and silt with some foundry slag	0 ppm	no odor
4			fine sand and silt with some foundry slag	0 ppm	no odor
5			fine sand and silt with some foundry slag	0 ppm	no odor
6			fine sand and silt with some foundry slag	0 ppm	no odor
7			fine sand and silt with some foundry slag	0 ppm	no odor
8			fine sand and silt with some foundry slag	0 ppm	no odor
9					
10					
11					
12					
13					
WATER LEVEL DATE TIME* DEPTH			GENERAL NOTES 20'x20'x11'		
* Hrs. after completion			TEST PIT #3		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #1 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: Parking Lot at Railroad turntable CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			blacktop red/black cinders, misc. fill	0 ppm no odor
2			medium/coarse brown sand	0 ppm no odor
3			railroad ties	0 ppm no odor
4				
5			water infiltration (perched? Actual water table?)	0 ppm no odor
6			running sand/GW at 6'	0 ppm no odor
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #1	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #2 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			blacktop	0 ppm no odor
2			red silt/sand with gravel	0 ppm no odor
3			gray medium/coarse sand	
4			medium gravel	0 ppm no odor
5			perched?/actual groundwater	0 ppm no odor
6			standing groundwater	0 ppm no odor
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion				TEST PIT #2

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #3
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 2/28/00
PROJECT: Port of Rochester				ELEVATION:
LOCATION:				LABELLA REP: DEP
CLIENT:				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	NUMBER	DEPTH		
FEET	RANGE			
1			blacktop	0 ppm no odor
2			red silt/sand with gravel	0 ppm no odor
3			brown/gray sand	0 ppm no odor
4				0 ppm no odor
5				0 ppm no odor
6			some gravel	0 ppm no odor
7			running sand/groundwater	0 ppm no odor
8				0 ppm no odor
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion				TEST PIT #3

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #4 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			blacktop	0 ppm	no odor
2			white concrete	0 ppm	no odor
			miscellaneous fill	0 ppm	no odor
3			some blue slag (sulfur odor)	0 ppm	no odor
			red silt/sand	0 ppm	no odor
4			brown medium sand	0 ppm	no odor
			layer of dense slag	0 ppm	no odor
5					
6			standing water	0 ppm	no odor
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #4		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #5 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			grass	0 ppm no odor
			silt/sand with some gravel	0 ppm no odor
2			brown sand	0 ppm no odor
3				0 ppm no odor
4			silt/sand with some clay	0 ppm no odor
5				0 ppm no odor
6				0 ppm no odor
7				0 ppm no odor
8			clay	0 ppm no odor
9			fine sand with some gravel	0 ppm no odor
10				0 ppm no odor
11			some sandstone	0 ppm no odor
12				
13				
WATER LEVEL DATE TIME* DEPTH			GENERAL NOTES	
* Hrs. after completion			TEST PIT #5	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #6 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			grass	
2			red silt gravel	
3			miscellaneous fill	
4			blue sulfur slag	
5			miscellaneous fill	
6			termination at 4' due to slag	
7			miscellaneous white slag	
8			groundwater with sheen	at third location
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #6	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #7 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			grass miscellaneous silt/gravel	0 ppm	sulfur odor
2			blue slag miscellaneous fill- brick/slag/concrete	0 ppm	sulfur odor
3				0 ppm	sulfur odor
4			black layer	0 ppm	sulfur odor
5			water	0 ppm	sulfur odor
6				0 ppm	sulfur odor
7			miscellaneous fill	0 ppm	sulfur odor
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #7		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #8 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			grass	0 ppm sulfur odor
2			miscellaneous fill - slag/brick	0 ppm sulfur odor
3			black fine ash/silt	0 ppm sulfur odor
4			slag miscellaneous fill	0 ppm sulfur odor
5			groundwater	0 ppm sulfur odor
6				0 ppm sulfur odor
7			miscellaneous fill	0 ppm sulfur odor
8				
9				
10				
11				
12				
13				
WATER LEVEL DATE TIME* DEPTH			GENERAL NOTES	
* Hrs. after completion				TEST PIT #8

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #9 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			grass	0 ppm sulfur odor
2			sand	0 ppm sulfur odor
3			↓ red slag - miscellaneous fill	0 ppm sulfur odor
4			and blue slag	0 ppm sulfur odor
5				0 ppm sulfur odor
6			ash	0 ppm sulfur odor
7				0 ppm sulfur odor
8				0 ppm sulfur odor
9				0 ppm sulfur odor
10				0 ppm sulfur odor
11			standing water (no sheen)	0 ppm sulfur odor
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #9	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614						TEST PIT #10 PROJECT # 99150 DATE: 2/28/00		
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe						ELEVATION: LABELLA REP: DEP		
SCALE	IN	SAMPLE	DESCRIPTION OF MATERIALS				REMARKS	
		DEPTH	Attempt 1	Attempt 2	Attempt 3	Attempt 4		
		RANGE						
1			grass sand/silt	grass sand/silt	grass gravel	grass silt/fill	0 ppm	sulfur odor
2			↓	red and blue slag	concrete	red silt/fill	0 ppm	sulfur odor
3			concrete slab			black cinders/fill	0 ppm	sulfur odor
4				large frags			0 ppm	sulfur odor
5				concrete slab		brown sand	0 ppm	sulfur odor
6							0 ppm	no odor
7						gray fine sand	0 ppm	no odor
8						very firm brown sand		
9							0 ppm	no odor
10							0 ppm	no odor
11						no standing water	0 ppm	no odor
12							0 ppm	no odor
13						hard sand/till		
WATER LEVEL						GENERAL NOTES		
DATE	TIME*	DEPTH						
* Hrs. after completion								TEST PIT #10

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #11 PROJECT # 99150 DATE: 2/28/00
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	NUMBER	DEPTH		
FEET	RANGE	RANGE		
1			grass	0 ppm no odor
2			silt/sand - brown (some debris and concrete slabs)	0 ppm no odor
3				0 ppm no odor
4				0 ppm no odor
5				0 ppm no odor
6				0 ppm no odor
7				0 ppm no odor
8				0 ppm no odor
9				0 ppm no odor
10				0 ppm no odor
11			gray silt (dense) and clay	0 ppm no odor
12				0 ppm no odor
13				0 ppm no odor
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #11	


TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #12 PROJECT # 99150 DATE: 2/28/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS		REMARKS
IN	NUMBER	DEPTH	1st attempt	2nd attempt	
FEET		RANGE			
1			grass brick/rock fragments	grass silt	
2			miscellaneous fill	miscellaneous slag	
3			blue/red slag	↓	
4					
5			concrete slab	brick concrete slab	
6					
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #12		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.			TEST PIT #13	
300 STATE STREET			PROJECT # 99150	
Rochester, New York 14614			DATE: 2/29/00	
PROJECT: Port of Rochester			ELEVATION:	
LOCATION:			LABELLA REP: DEP	
CLIENT:				
CONTRACTOR: Hickory Hills				
EQUIPMENT: Backhoe				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			gravel/sub-base	0 ppm no odor
			silt/sand with gravel	0 ppm no odor
2			firm/dense hard fine sand	
3			brick/concrete	0 ppm no odor
4			brown sand	0 ppm no odor
5				0 ppm no odor
6				0 ppm no odor
7				0 ppm no odor
8			black cinders	0 ppm no odor
9				0 ppm no odor
10			concrete slab	0 ppm no odor
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #13	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #14 PROJECT # 99150 DATE: 2/29/00		
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP		
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			gravel/sub-base . miscellaneous fill (blue slag, gravel, sand, brick)	0 ppm no odor	
2				0 ppm sulfur odor	
3				0 ppm sulfur odor	
4				0 ppm sulfur odor	
5				0 ppm sulfur odor	
6				0 ppm sulfur odor	
7				standing water	0 ppm sulfur odor
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion				TEST PIT #14	


TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #15 PROJECT # 99150 DATE: 2/29/00
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			gravel/sub-base silt/sand gravel (fill)	
2			concrete slab	
3			miscellaneous slag (white)	
4			miscellaneous slag (iron)	
5				
6				
7				
8				
9				
10			↓ water	
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #15	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #16 PROJECT # 99150 DATE: 2/29/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS	
IN	NUMBER	DEPTH			
FEET	RANGE	RANGE			
1			gravel silt/sand	↓	0 ppm sulfur odor
2				↓	0 ppm sulfur odor
3			miscellaneous slag	↓	0 ppm sulfur odor
4				↓	0 ppm sulfur odor
5				↓	0 ppm sulfur odor
6				↓	0 ppm sulfur odor
7				↓	0 ppm sulfur odor
8			silty-clay (native)	↓	0 ppm no odor
9				↓	0 ppm no odor
10				↓	0 ppm no odor
11				↓	0 ppm no odor
12				↓	0 ppm no odor
13				↓	0 ppm no odor
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #16		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #17 PROJECT # 99150 DATE: 2/29/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	SAMPLE	DEPTH		
FEET	NUMBER	RANGE		
1			grass	0 ppm no odor
2			topsoil/silt	0 ppm no odor
3			medium brown sand/silt	0 ppm no odor
4			gray-blue silty clay 	0 ppm no odor
5				0 ppm no odor
6				0 ppm no odor
7				0 ppm no odor
8				0 ppm no odor
9				0 ppm no odor
10				0 ppm no odor
11				0 ppm no odor
12				0 ppm no odor
13				0 ppm no odor
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion				TEST PIT #17

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.			TEST PIT #18		
300 STATE STREET			PROJECT # 99150		
Rochester, New York 14614			DATE: 2/29/00		
PROJECT: Port of Rochester			ELEVATION: LABELLA REP: DEP		
LOCATION:					
CLIENT:					
CONTRACTOR: Hickory Hills					
EQUIPMENT: Backhoe					
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			gravel	0 ppm sulfur odor	
2			silt/sand - gravel	0 ppm sulfur odor	
3			miscellaneous slag white, blue and green ↓ standing water	0 ppm sulfur odor	
4				0 ppm sulfur odor	
5				0 ppm sulfur odor	
6				0 ppm sulfur odor	
7				0 ppm sulfur odor	
8				0 ppm sulfur odor	
9					
10					
11					
12					
13					
WATER LEVEL				GENERAL NOTES	
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #18		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #19 PROJECT # 99150 DATE: 2/29/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP	
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	NUMBER	DEPTH		
FEET		RANGE		
1			grass	
2			silt/sand	
3			↓	
4			dense slag - white/blue	
5			standing water - some sheen	
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT #19	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614			TEST PIT #20 PROJECT # 99150 DATE: 2/29/00		
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe			ELEVATION: LABELLA REP: DEP		
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			grass	0 ppm	no odor
2			silt/sand/topsoil	0 ppm	no odor
3			red coarse sand - waste fill	0 ppm	no odor
4			↓	0 ppm	no odor
5			brown silt/fine sand	0 ppm	no odor
6			no slag (rocks)	0 ppm	no odor
7			↓	0 ppm	no odor
8				0 ppm	no odor
9				0 ppm	no odor
10				0 ppm	no odor
11				0 ppm	no odor
12				0 ppm	no odor
13				0 ppm	no odor
WATER LEVEL DATE TIME* DEPTH			GENERAL NOTES		
* Hrs. after completion			TEST PIT #20		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #21 PROJECT # 99150 DATE: 2/29/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE	IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS	REMARKS
	FEET	NUMBER	RANGE		
1				asphalt - 2"	0 ppm no odor
2				gravel	0 ppm no odor
3				gray medium-fine sand	0 ppm Creosote odor
4					0 ppm Creosote odor
5				railroad ties	0 ppm Creosote odor
6				concrete slab	0 ppm Creosote odor
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL				GENERAL NOTES	
DATE	TIME*	DEPTH			
* Hrs. after completion				TEST PIT #21	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #22 PROJECT # 99150 DATE: 2/29/00	
PROJECT: Port of Rochester LOCATION: CLIENT: CONTRACTOR: Hickory Hills EQUIPMENT: Backhoe				ELEVATION: LABELLA REP: DEP	
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS	
IN	NUMBER	DEPTH			
FEET		RANGE			
1			gravel	0 ppm	no odor
2			silt/sand fill	0 ppm	no odor
3			miscellaneous slag fragments (blue/white) ↓	0 ppm	sulfur odor
4				0 ppm	sulfur odor
5				0 ppm	sulfur odor
6				concrete/slag layer - hoe ram	0 ppm	sulfur odor
7			standing water with sheen		
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT #22		

CORE BORING REPORT

BORING NO.
HA-101

Page 1 of 1

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE STARTED	30-May-00
DRILLER	L. TODD	DATE FINISHED	30-May-00

Elevation	R	Datum	Boring Location				Drill Mud		
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type		
Type	HAS	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite		
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer		
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> None		
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven	<input type="checkbox"/> Spun

Depth (ft)	Drilling Rate (min/ft)	Core No. Depth (ft)	Recovery RQD		Weathering	Stratum Change (ft)	Visual Classification and Remarks
			(in)	(%)			
		50.5					
			3.4/5.0	68			Competent red sandstone with interbedded gray sandstone. QUEENSTONE FORMATION
5	Avg. 3-4 minutes per foot						
			3.45/5.0	69			Highly fractured 8.0 ft. to 10.0 ft.
10		60.5					
15							
20							
25							
30							

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	Overburden (Linear ft)	Rock Cored (linear ft)
								30.5	10
									143
								BORING NO.	HA-102

TEST BORING REPORT

BORING NO.
HA-101a
Page 2 of 5

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	7-Jun-00
DRILLER	L. TODD	DATE FINISHED	7-Jun-00

Elevation	251.8	ft	Datum	City	Boring Location	See Boring Location Plan	
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Bentonite
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Safety
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid		<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Doughnut
							<input type="checkbox"/> None
							<input type="checkbox"/> Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						Augered to 3.0 ft.
5	5		S6	5.0		Loose gray brown fine to medium SAND, trace silt, organics, moist.
	3					ALLUVIUM
	3		14"724"	7.0		Augered to 10.0 ft.
10	4		S7	10.0		Same, except wet.
	4					
	3					
	2		16"724"	12.0		
15	1		S8	15.0		Medium dense gray brown fine to coarse SAND, some coarse gravel, wet.
	9					
	7					
	7		23"724"	17.0		
20	11		S9	20.0		Same.
	10					
	11					
	14		20"724"	22.0		
25	12		S10	25.0		Same, except loose.
	3					
	4					
	3		20"724"	27.0		
30						

Water Level Data						Sample ID	Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O Open End Rod	Overburden (Linear ft) 115	
						T Thin Wall Tube	Rock Cored (Linear ft) --	
						U Undisturbed Sample	Number of Samples 185	
						S Split Spoon Sample		
						G Geoprobe		
							BORING NO.	HA-101a

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		9	S11	30.0		Loose gray brown silty fine to coarse SAND, trace gravel, wet.
		4				ALLUVIUM
		3	22"/24"	32.0		
35		2	S12	35.0		Same, except very loose.
		1				
		2	23"/24"	37.0		
40		1	S13	40.0		Very loose gray brown fine sandy SILT, little clay, organics, wet.
		1				
		2	22"/24"	42.0		
45		1	S14	45.0		Same, except no organics.
		2				
		2	18"/24"	47.0		
50		1	S15	50.0		Same.
		2				
		2	20"/24"	52.0		
55		1	S16	55.0		Same.
		2				
		3	20"/24"	57.0		
60		1	S17	60.0		Loose gray brown SILT, little clay, trace sand, wet.
		3				
		4	20"/24"	62.0		
65		1	S18	65.0		Same.
		2				
		2	23"/24"	67.0		
		4				(Augered to bedrock)
70						

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
						(Augered to bedrock - No samples recovered)
75						
80						
85						
90						
95						
100						
105						
110						

HALEY & ALDRICH

TEST BORING REPORT

BORING NO.
HA-101a
Page 5 of 5

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
						(Encounter Change in drilling conditions)
115						(Auger refusal) Bottom of Exploration of 115.0 ft.
120						
125						
130						
135						
140						
145						
150						

FILE NO. 70819-000 BORING NO. HA-101a

TEST BORING REPORT

BORING NO.

HA-102

Page 1 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	30-May-00
DRILLER	L. TODD	DATE FINISHED	30-May-00

Elevation	253.5	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV <input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track <input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid <input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		28	S1	0.0		Medium dense brown and black silty fine to coarse SAND, little rock fragments, dry.
		19				FILL
		16				
		14	16"/24"	2.0		
		9	S2	2.0		Medium dense brown silty fine to coarse SAND, trace coarse gravel, dry.
		8				
		6				
		5	14"/24"	4.0		
		5	S3	4.0		Same, rock obstruction in bottom of spoon.
5		3				
		3	2"/24"	6.0	6.0	Loose gray brown fine to coarse SAND, wet.
		1	S4	6.0		
		2				ALLUVIUM
		3				
		1	15"/24"	8.0		
		4	S5	8.0		Medium dense gray brown fine to coarse SAND, some gravel, wet.
		18				
		15				
10		17	17"/24"	10.0		
		22	S6	10.0		Very dense brown fine to coarse SAND, moist.
		48				
		38				
		45	2"/24"	12.0		
15		54	S7	15.0	15.0	Very dense gray brown silty fine to coarse SAND, some gravel, moist.
		100/4	8"/11"	15.9		GLACIAL TILL
20		100/4	S8	20.0		Very dense brown silty fine to coarse SAND, some gravel. Red sandstone in bottom of spoon, moist.
			4"/5"	20.4		
25		19	S9	25.0		Very dense gray brown silty fine to coarse SAND, some gravel, moist.
		91				
		100/3	12"/18"	26.3		
30						

Water Level Data					Sample ID		Summary						
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S	G	Overburden (Linear ft)	Rock Cored (Linear ft)	Number of Samples
30-May		2			17.5						50.5	10	14S
											BORING NO.	HA-102	

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & -Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		10 1007.3	S10 7"/10"	30.0 30.8		Very dense gray brown silty fine to coarse SAND, little rock fragments, wet. GLACIAL TILL
35		19 60 1007.3	S11 16"/16"	35.0 36.3		Very dense silty fine to coarse SAND, some gravel, trace clay, wet.
40		15 1007.4	S12 10"/11"	40.0 40.9		Same.
45		20 1007.1	S13 6"/8"	45.0 45.6	45.0	Very dense red brown silty fine to coarse SAND, trace clay, moist. WEATHERED ROCK
50		1007.5	S14	50.0 50.5	50.5	Same, with little clay. Began rock coring at 50.5 ft.
55						Competent, red sandstone with interbedded gray sandstone. QUEENSTONE FORMATION
60						Highly fractured 58.8 ft. to 60.5 ft. Bottom of Exploration at 60.5 ft.
65						
70						

TEST BORING REPORT

BORING NO.
HA-103

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	D. NOSTRANT
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	31-May-00
DRILLER	L. TODD	DATE FINISHED	31-May-00

Elevation	253.86	ft	Datum	City	Boring Location	See Bring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model CME-55 Truck Mount				Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	1-7/8	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety	<input type="checkbox"/> Polymer
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut	<input checked="" type="checkbox"/> None
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0	8		S1	0.0		Medium dense gravelly coarse to fine sand, little silt, dry.
	11					FILL
	15	15"/24"		2.0	2.0	Medium dense dark brown coarse to fine SAND, some gravel, little silt, dry.
	18		S2	2.0		
	11					FILL
	7	10"/24"		4.0		
	9		S3	4.0		Same.
	8					Moist to wet beginning at 5.5 ft.
5	4					FILL
	6			6.0		
	3		S4	6.0		Same, wet.
	5					FILL
	8					Noted refusal and suspected cobble at 7.5 ft.
	507.0	4"/18"		7.5		
	5		S5	8.0		Same, except black.
	7					FILL
	9					
	4	6"/24"		10.0		
10	7		S6	10.0		Medium dense black coarse to fine sandy GRAVEL, little silt, wet.
	9					FILL
	10					
	15			12.0		
	62		S7	12.0		Same, except very dense, gray-black.
	26					FILL
	29					Driller noted sulphur-like odor in sample.
	9	12"/24"		14.0		See Note on Page 2 of 4.
						Auger Refusal at 14.0 ft.
						Boring moved 18.0 ft. west of original location.

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample
						Geoprobe			
								Overburden (Linear ft)	14
								Rock Cored (Linear ft)	-
								Number of Samples	75
								BORING NO.	HA-103

TEST BORING REPORT

BORING NO.
HA-103a
Page 2 of 3

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	31-May-00
DRILLER	L. TODD	DATE FINISHED	1-Jun-00

Elevation	253.86	ft	Datum	City	Boring Location	See Boring Location Plan	
Item	Casing	Sampler	Core Barrel	Rig Make & Model CME 55 - Truck Mount			Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun	

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		A				(Offset 18 west of original location)
		U				
		G	See Samples for 0-14 ft in Boring HA-103			
		E				
		R				
5		11		5.0		Medium dense brown black fine to coarse SAND, little silt, dry.
		14				FILL
		7				
		4		7.0		
		A				
		U				
		G				
		E				
		R				
10		9		10.0		Dense black brown fine to coarse SAND, little silt, slag fragments, wet.
		19				
		22				
		20		12.0		
		7	S8	14.0		Same, except medium dense.
15		11				
		15				
		12	14"/24"	16.0		
		8				
		3	No Recovery			
		6				
		7		18.0		
		8	S9	18.0		Medium dense black brown silty fine to coarse SAND, wet.
		10				
		8				ALLUVIUM
20		6	6"/24"	20.0		
		5				
		3	S10	24.0		Loose gray brown fine sand SILT, wet.
25		3				
		4	2"/24"	26.0		
		2				
		3	S11	29.0		Loose gray fine sand SILT, some clay, organics, moist.
30		3	12"/18"	30.3		

Water Level Data				Sample ID		Summary			
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	7
						T <td>Thin Wall Tube</td> <th>Rock Cored (Linear ft)</th> <td>-</td>	Thin Wall Tube	Rock Cored (Linear ft)	-
						U <td>Undisturbed Sample</td> <th>Number of Samples</th> <td>19S</td>	Undisturbed Sample	Number of Samples	19S
						S <td>Split Spoon Sample</td> <td colspan="2">BORING NO. HA-103a</td>	Split Spoon Sample	BORING NO. HA-103a	
						G <td>Geoprobe</td> <td colspan="2"></td>	Geoprobe		

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in.	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		1	S12	34.0		Loose gray fine sand SILT, some clay, organics, moist.
35		3				ALLUVIUM
		4	12"/24"	36.0		
		2	S13	39.0		Loose gray silty fine to coarse SAND, trace organics, moist.
40		4	23"/24"	40.0		
		2	S14	44.0		Loose gray brown fine to medium sandy SILT, little clay, organics, moist.
45		4	22"/24"	46.0		
		2	S15	49.0		Same.
50		3	22"/24"	51.0		
		2	S16	54.0		Same.
55		3	23"/24"	56.0		
		2	S17	59.0		Same.
60		3	22"/24"	61.0		
		4	S18	64.0		Medium dense gray brown fine to medium sandy SILT, little clay, organics, moist.
65		7	22"/24"	66.0		
		7	S19	69.0		Bottom of Exploration at 71.0 ft.
70		10	17"/24"	71.0		

FILE NO.

70819-000

BORING NO.

HA-103a

TEST BORING REPORT

BORING NO.
HA-104

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	13-Jun-00
DRILLER	L. TODD	DATE FINISHED	13-Jun-00

Elevation	254.25	ft	Datum	City	Boring Location	See Boring Location Plan	
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Drill Mud
Type	HSA	SS	NX	CME 55 - Truck Mount			
Inside Diameter (in)	3-1/4	1-3/8	2	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Hammer Weight (lb)	--	140		<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety
Hammer Fall (in)	--	30		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Polymer
				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input checked="" type="checkbox"/> None
						Casing	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						Mudline 19.0 ft below top of seawall.
						Sunk augers 4.0 ft below mudline.
5			WOR WOR 1	4.0 6.0		Very loose gray brown silty coarse to fine SAND. ALLOVIUM
10			WOR WOR WOR	9.0 11.0		Same as above.
15			1 3 5	14.0 16.0		Loose gray brown sandy fine to medium SILT, organics, wet.
20			3 5 9	19.0 21.0		Same as above.
25			2 4 6	24.0 26.0		Same as above.
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample
						Geoprobe			
								Overburden (Linear ft)	31
								Rock Cored (Linear ft)	--
								Number of Samples	6S
								BORING NO.	HA-104

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)		Stratum Change (ft)	Visual Classification and Remarks
		2	S6	29.0			Loose gray fine to medium sandy SILT, organics, wet. ALLUVIUM Bottom of Exploration at 31.0 ft.
		2	24"/24"	31.0			
		4					
		5					
35							
40							
45							
50							
55							
60							
65							
70							

TEST BORING REPORT

BORING NO.
HA-105

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PROJECT PORT OF ROCHESTER
 LOCATION ROCHESTER, NEW YORK
 CLIENT LABELLA ASSOCIATES
 CONTRACTOR GEOLOGIC ENTERPRISES
 DRILLER L. TODD

H&A FILE NO. 70819-000
 PROJECT MGR. M. VALENTINE
 FIELD REP. R. DEDRICK
 DATE STARTED 13-Jun-00
 DATE FINISHED 13-Jun-00

Elevation	253.96	ft	Datum	City	Boring Location	See Boring Location Plan	
Items	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 Truck Mount		Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/> Cutting Head	Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun	

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						15.0 ft to Mudline from Top of Seawall
						-Sunk augers 3.0 ft below mudline-
			S1	3.0		Very loose gray brown sandy SILT, wet
						ALLOUVIUM
5				5.0		
			S2	6.0		Very loose gray brown silty coarse to fine SAND, wet.
				8.0		
			S3	8.0		Same as above.
				10.0		
10						
			S4	15.0		Loose gray brown silty coarse to fine SAND, wet.
				17.0		
20			S5	20.0		Loose gray brown sandy SILT, organics.
				22.0		
25			S6	25.0		Same as above.
				27.0		
30						

Water Level Data						Sample ID	Summary
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)		
						O Open End Rod	Overburden (Linear ft) 32
						T Thin Wall Tube	Rock Cored (Linear ft) --
						U Undisturbed Sample	Number of Samples 78
						S Split Spoon Sample	
						G Geoprobe	
						BORING NO.	HA-105

TEST BORING REPORT

BORING NO.
HA-105

Page 2 of 2

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		1	S7	30.0		Loose gray brown sandy SILT, organics.
		3				
		3				ALLUVIUM
		6		32.0		Bottom of Exploration at 32.0 ft
35						
40						
45						
50						
55						
60						
65						
70						

TEST BORING REPORT

BORING NO.
HA-106

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	1-Jun-00
DRILLER	L. TODD	DATE FINISHED	1-Jun-00

Elevation	250.79	R		Datum	City	Boring Location	See Boring Location Plan
Items	Casing	Sampler	Core Barrel	Rig Make & Model			Drill Mud
				CME 55 - Truck Mount			
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		Augered				
		3	S1	0.5		Medium dense brown silty fine to coarse SAND, some rock fragments, dry.
		4				FILL
		7	11"/18"	2.0		Medium dense red brown silty fine to coarse SAND, trace rock fragments, moist.
		8	S2	2.0		
		5				
		7	12"/24"	4.0		Medium dense black brown fine to coarse SAND, little silt, wet.
		4	S3	4.0		ALLUVIUM
		12				
		17				
		15	16"/24"	6.0		Same, except very dense.
		20	S4	6.0		
		37				
		31				
		36	12"/24"	8.0		Same.
		44	S5	8.0		
		28				
		24				
		12	6"/24"	10.0		Loose gray brown fine to coarse SAND, little silt, wet.
		5	S6	10.0		
		3				
		5				
		6	8"/24"	12.0		Same, except trace rock fragments.
		3	S7	12.0		
		3				
		6				
		5	12"/24"	14.0		Medium dense gray brown fine to coarse SAND, little silt, wet.
		6	S8	14.0		
		12				
		14				
			11"/24"	16.0		
		4	S9	19.0		Loose gray fine sand SILT, little clay, moist.
		3				
		4				
		2	3"/24"	21.0		
		2				
			S10	24.0		Same, except very loose.
		2				
		2				
		4	15"/24"	26.0		
		1				
			S11	29.0		Loose gray brown fine to medium sand SILT, little clay, organics, moist.
		2				
		3				
			17"/24"	31.0		

Water Level Data				Sample ID			Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O Open End Rod	Overburden (Linear ft)	41
						T Thin Wall Tube	Rock Cored (Linear ft)	--
						U Undisturbed Sample	Number of Samples	138
						S Split Spoon Sample	BORING NO. HA-106	
						G Geoprobe		

HALEY & ALDRICH

TEST BORING REPORT

BORING NO.
HA-107
Page 1 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	26-May-00
DRILLER	L. TODD	DATE FINISHED	26-May-00

Elevation	266.08	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Hammer Type
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Roller Bit
						<input type="checkbox"/> Doughnut
						Casing
						<input type="checkbox"/> Driven
						<input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						ASPHALT
	5	S1	0.5	0.5		Medium dense black brown fine to coarse SAND, some gravel, dry.
	11					FILL
	21	7"/18"	2.0	2.0		Medium dense brown fine to coarse SAND, damp.
	13	S2	2.0			
	18					
	14					
	11	16"/24"	4.0	4.0		Dense brown black fine to coarse SAND, little silt, brick, damp.
	5	S3	4.0			
	22					
5	22					
	30	17"/24"	6.0	6.0		Same, except medium dense.
	14	S4	6.0			
	11					
	14					
	12	20"/24"	8.0	8.0		Medium dense brown orange fine to coarse SAND, moist.
	4	S5	8.0			
	6					
	6					
	7	18"/24"	10.0	10.0		
10						
	1	S6	13.0	13.0		Loose brown gray fine sand SILT, trace to little clay, trace organics, moist.
	2					
	3					
15	3	21"/24"	15.0	15.0		ALLOVIUM
	2					
	3	S7	18.0	18.0		Same.
	4					
	5	24"/24"	20.0	20.0		
20						
	7	S8	23.0	23.0		Very dense gray brown silty SAND, some gravel. Pockets of brown fine to coarse SAND, wet.
	35					
	37					GLACIAL TILL
	21	22"/24"	25.0	25.0		
25						
	22	S9	28.0	28.0		Same.
	24					
	26					
	26	20"/24"	30.0	30.0		
30						

Water Level Data				Sample ID				Summary				
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	49.0			
26-May		0.3			18	T	Thin Wall Tube	Rock Cored (Linear ft)	3.0			
						U	Undisturbed Sample	Number of Samples	13S			
						S	Split Spoon Sample	BORING NO. HA-107				
						G	Geoprobe					

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		15 39	S10	33.0		Very dense gray brown fine silty sand, little gravel, wet.
		41				GLACIAL TILL
35		40	19"/24"	35.0		
		16 26	S11	38.0		Same.
		39				
40		43	17"/24"	40.0		
		25 65	S12	43.0		Very dense gray brown fine sandy SILT, trace clay, little gravel, wet.
		100/4	16"/17"	44.4		
45						
		24 100/5	S13	48.0		Same, except pocket of red brown fine to coarse SAND, some rock fragments, wet.
			11"/12"	49.0	49.0	Began Rock Coring at 49.0 ft.
50						Competent red sandstone with interbedded gray sandstone.
					54.0	Bottom of Exploration at 54.0 ft.
55						
60						
65						
70						
						FILE NO. 70819-000
						BORING NO. HA-107

CORE BORING REPORT

BORING NO.
HA-107

Page 1 of 1

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE STARTED	26-May-00
DRILLER	L. TODD	DATE FINISHED	26-May-00

Elevation		ft Datum		Boring Location			
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Drill Mud
Type	HAS	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Drilling Rate (min/ft)	Core No. Depth (ft)	Recovery RQD		Weathering	Stratum Change (ft)	Visual Classification and Remarks
			(in)	(%)			
		49.5					0-2 ft. Highly fractured.
	Avg. 4 ft. per minute		1.9/5.0	38			Competent red sandstone with interbedded gray sandstone.
							QUEENSTONE FORMATION
5		54.5					
10							
15							
20							
25							
30							

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft) _____	
						T	Thin Wall Tube	Rock Cored (linear ft) _____	
						U	Undisturbed Sample	Samples _____	
						S	Split Spoon Sample		
						G	Geoprobe		
								BORING NO.	HA-107

TEST BORING REPORT

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	12-Jun-00
DRILLER	L. TODD	DATE FINISHED	12-Jun-00

Elevation	251.78	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head
				Hammer Type	<input checked="" type="checkbox"/> Safety	
				Drill Mud	<input type="checkbox"/> Bentonite	
				Hammer Type	<input type="checkbox"/> Polymer	
				Hammer Type	<input checked="" type="checkbox"/> None	
				Casing	<input type="checkbox"/> Driven	<input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		7	S1	0.0		Medium dense brown black gray silty coarse to fine SAND, some gravel, ash, dry.
		10				FILL
		7	17" / 24"	2.0	2.5	Same.
		7	S2	2.0		Medium dense brown silty coarse to fine SAND, dry.
		8				
		11	14" / 24"	4.0		
		9	S3	4.0		Medium dense brown black silty coarse to fine SAND, moist.
5		10				ALLUVIUM
		10	17" / 24"	6.0		
		2	S4	9.0		Very loose gray brown fine sandy SILT, little clay, organics, moist.
10		1				
		2	13" / 24"	11.0		
		1	S5	14.0		Very loose, gray brown silty medium to fine SAND, organics, moist.
15		2				
		2	16" / 24"	16.0		
		1	S6	19.0		Same.
20		1				
		2	20" / 24"	21.0		
		2	S7	24.0	25.0	Same.
25		30				Very dense red silty fine to coarse SAND, dry.
		46	16" / 24"	26.0		DISINTEGRATED RED SANDSTONE
		100/3	S8	27.5		Same, except some rock fragment.
			4" / 7"	27.8		Bottom of Exploration at 27.9 R.
						Auger Refusal.
30						

Water Level Data				Sample ID		Summary			
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	27.8
						T <th>Thin Wall Tube</th> <th>Rock Cored (Linear ft)</th> <th>-</th>	Thin Wall Tube	Rock Cored (Linear ft)	-
						U <th>Undisturbed Sample</th> <th>Number of Samples</th> <th>88</th>	Undisturbed Sample	Number of Samples	88
						S <th>Split Spoon Sample</th> <td></td> <td></td>	Split Spoon Sample		
						G <th>Geoprobe</th> <td></td> <td></td>	Geoprobe		
						BORING NO.		HA-109	

HALEY & ALDRICH**TEST BORING REPORT****BORING NO.****HA-110**

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	12-Jun-00
DRILLER	L. TODD	DATE FINISHED	12-Jun-00

Elevation	252.78	ft Datum	City	Boring Location	See Boring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount		
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Drill Mud
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Bentonite
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input checked="" type="checkbox"/> Safety	<input type="checkbox"/> Polymer
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid		<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
						<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks	
0	22		S1	0.0		Very dense gray brown silty fine to coarse SAND, some gravel, dry. FILL	
	30						
	27						
	30		11 7/24"		2.0		
5	7		S2	2.0		Medium dense brown black silty fine to coarse SAND, trace gravel, trace organics, moist. Loose gray black gravelly SAND, slag, wet.	
	7						
	6		14 7/24"		4.0		
	4		S3	4.0			
5	3					Very loose gray silty fine SAND, organics, moist. ALLUVIUM	
	3		3 7/24"	6.0	6.0		
	1		S4	6.0			
	2						
10	2		13 7/24"	8.0		Same, except wet.	
	1		S5	8.0			
	1						
	2		10 7/24"		10.0		
15	1		S6	14.0		Very loose gray silty coarse to fine SAND, organics, wet.	
	1						
	2		12 7/24"		16.0		
	1						
20	100/2		S7	19.0	19.0	Very dense red silty SAND and ROCK FRAGMENTS. WEATHERED BEDROCK Bottom of Boring at 20.0 ft. Auger Refusal	
			3 7/3"	19.3			
25							
30							

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	Overburden (Linear ft)	Rock Cored (Linear ft)
								20	
						U		--	
						S		7S	
						G			

BORING NO. HA-110

TEST BORING REPORT

BORING NO.

HA-111

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	23-May-00
DRILLER	L. TODD	DATE FINISHED	23-May-00

Elevation	251.83	ft	Datum	City	Boring Location	See Boring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount			Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type		<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV <input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety		<input type="checkbox"/> Polymer
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track <input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut		<input checked="" type="checkbox"/> None
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head	Casing		<input type="checkbox"/> Driven <input type="checkbox"/> Spun	

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0			No sample		0.5	ASPHALT
					1.0	CRUSHED STONE
	3	S1	1.0			Loose gray brown silty fine to coarse SAND, pocket of black fine to coarse SAND, dry.
	3	5"7/12"	2.0			Medium dense gray brown fine to coarse SAND, little silt, wet.
	6	S2	2.0			FILL
	7					
	6	8"7/24"	4.0			
	9	S3	4.0			Medium dense gray brown green (mottled) silty fine to coarse SAND, some fine gravel, wood, moist. Water in borehole at 3.9 ft.
5	4					
	19					
	21	12"7/24"	6.0			Dense gray brown gravelly SAND, wet. Rock Obstruction in shoe.
	19	S4	6.0			
	27					
	32	16"7/24"	8.0			
	21	S5	8.0			Very dense gray brown fine to coarse SAND, some fine gravel, wet.
	24					
	26					
10	10	20"7/24"	10.0		10.0	Medium dense gray brown fine to coarse SAND.
	15	S6	10.0			
	14					ALLUVIUM
	19	17"7/24"	12.0			
15	4	S7	15.0			Loose gray brown fine to coarse SAND, some fine to coarse gravel, moist.
	6					
	3					
	3	14"7/24"	17.0			
20	1	S8	20.0			Very loose gray brown fine sand SILT, wood, natural laminations in soils, moist.
	1					
	2					
	2	18"7/24"	22.0			
25	1	S9	25.0			Very loose gray brown fine sand SILT, little clay, wood.
	1					
	1					
	1	24"7/24"	27.0			
30						

Water Level Data				Sample ID			Summary						
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S	G	Overburden (Linear ft)	Rock Cored (Linear ft)	Number of Samples
23-May	10	0.75			3.9						58.5	3	14S
											BORING NO.	HA-111	

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		1	S10	30.0		Very loose gray brown fine sand SILT, little clay, root structures, wood, moist.
		2				
		2				
		3	24"/24"	32.0		
						ALLUVIUM
35		2	S11	35.0		Same, except some clay.
		2				
		2				
		2	24"/24"	37.0		
40		2	S12	40.0		Very loose gray-green fine sand SILT, root structures, red fine to coarse sand in shoe, moist.
		2				
		2				
		6	24"/24"	42.0	42.0	
						GLACIAL TILL
45		70	S13	45.0		Dense red brown SILT, little clay, gray green fractured sandstone.
		33				
		8			46.0	
		12	16"/24"	47.0		
50		100/2				No Recovery.
55		100/2	S14	55.0	55.0	Very dense red, brown fractured sandstone, red brown silt, wet.
			2"/3"	55.3		
						WEATHERED BEDROCK
						Auger Refusal at 58.5 ft.; began rock coring.
60						
65						
70						

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
						Competent red sandstone with interbedded gray sandstone.
						QUEENSTON FORMATION
						Bottom of Exploration at 63.5 ft.
65						Monitoring well installed in adjacent borehole. See Installation Report for LBA-MW1
70						
75						
80						
85						
90						
95						
##						

CORE BORING REPORT

BORING NO.
HA-111

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PROJECT PORT OF ROCHESTER
LOCATION ROCHESTER, NEW YORK
CLIENT LABELLA ASSOCIATES
CONTRACTOR GEOLOGIC ENTERPRISE
DRILLER L. TODD

H&A FILE NO. 70819-000
PROJECT MGR. M. VALENTINE
FIELD REP. R. DEDRICK
DATE STARTED 23-May-00
DATE FINISHED 23-May-00

Elevation			Datum			Boring Location						Drill Mud			
Item	Casing	Sampler	Core Barrel			Rig Make & Model									
Type	HAS	SS	NX			<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type			<input type="checkbox"/> Bentonite			
Inside Diameter (in)	3-1/4	1-3/8	2			<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety				<input type="checkbox"/> Polymer		
Hammer Weight (lb)	-	140				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut				<input checked="" type="checkbox"/> None		
Hammer Fall (in)	-	30				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing			<input type="checkbox"/> Driven	<input type="checkbox"/> Spun		

Depth (ft)	Drilling Rate (min/ft)	Core No. Depth (ft)	Recovery RQD		Weathering	Stratum Change (ft)	Visual Classification and Remarks
			(in)	(%)			
5		58.5					Competent red sandstone with interbedded gray sandstone.
5							QUEENSTONE FORMATION
3							
4							
5		63.5					
10							
15							
20							
25							
30							

Water Level Data						Sample ID		Summary				
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S	G	Overburden (Linear ft)	Rock Cored (linear ft) Samples

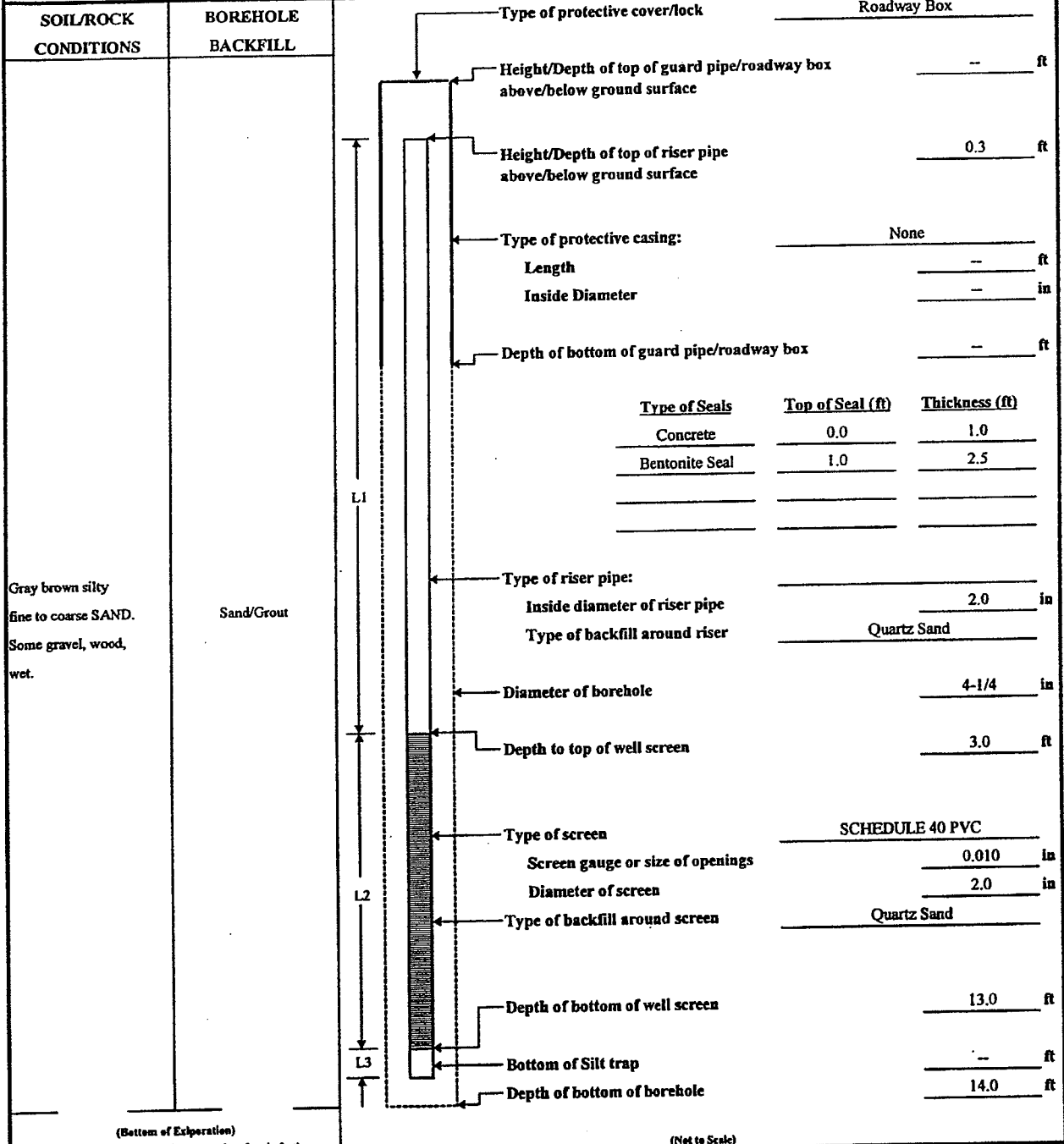
BORING NO. HA-111

OBSERVATION WELL INSTALLATION REPORT

Well No.
LBA-MW1
Boring No.
HA-111*

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE INSTALLED	5/24/2000
DRILLER	L. TODD	WATER LEVEL	

Ground EL.	Not Surveyed	ft	Location	North Parking Lot	<input type="checkbox"/> Guard Pipe
EL Datum	Not Surveyed				<input checked="" type="checkbox"/> Roadway Box



(Bottom of Exploration) (Not to Scale)

$$3 \text{ ft} + 10 \text{ ft} + 0 \text{ ft} = 13 \text{ ft}$$
 Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS: Well installed 4 ft. west of Boring HA-111. Hole was blind augered to 14.0 ft. per Greg Senegal of Labella Associates

TEST BORING REPORT

BORING NO.

HA-112

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PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	9-Jun-00
DRILLER	L. TODD	DATE FINISHED	9-Jun-00

Elevation	260.89	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV <input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track <input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid <input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Driven <input type="checkbox"/> Spun
Hammer Type	<input checked="" type="checkbox"/> Safety					
Casing	<input type="checkbox"/> Doughnut					

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		3	S1	0.0		CRUSHED STONE FILL
		4			1.0	
		4				Loose brown silty fine to coarse SAND, dry.
		3	14"/24"	2.0		
		3	S2	2.0		Loose brown silty fine to coarse SAND, trace clay, trace organics, moist.
		3				ALLUVIUM
		3				
		3	18"/24"	4.0		
		3	S3	4.0		Same, except very loose.
		1				
5		2				
		3	18"/24"	6.0		
		5	S4	9.0		Medium dense brown fine sandy SILT, some clay pockets, moist.
		5				
		6	17"/24"	11.0		
		2	S5	14.0		Loose gray brown fine sandy SILT, some clay pockets, moist.
		2				
15		3				
		5	20"/24"	16.0		
		2	S6	19.0	19.0	Loose gray brown silty coarse to fine SAND, some gravel, moist.
		4				GLACIAL TILL
20		5				
		6	12"/24"	21.0		
		3	S7	24.0		Loose gray brown silty fine to coarse SAND, some gravel, little clay, wet.
		5				
25		4				
		5	24"/24"	26.0		
30						

Water Level Data				Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O Open End Rod	Overburden (Linear ft) 41
						T Thin Wall Tube	Rock Cored (Linear ft) -
						U Undisturbed Sample	Number of Samples 10S
						S Split Spoon Sample	
						G Geoprobe	BORING NO. HA-112

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		5	S8	30.0		Medium dense gray brown silty fine to coarse SAND, some gravel, little clay, wet.
		16				
		19				
		21	23"/24"	32.0		
35		35	S9	35.0		Same, except very dense
		46				
		45				
		62	24"/24"	37.0		
		44	S10	39.0		Same.
40		46				
		66				
		1007.3	24"/24"	41.0		Bottom of Exploration at 41.0 ft.
45						
50						
55						
60						
65						
70						

TEST BORING REPORT

BORING NO.
HA-113

Page 1 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	7-Jun-00
DRILLER	L. TODD	DATE FINISHED	8-Jun-00

Elevation	270.8	ft	Datum	City	Boring Location	See Boring Location Plan	
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount		Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Driven <input type="checkbox"/> Spun
Hammer Type						<input checked="" type="checkbox"/> Safety	
						<input type="checkbox"/> Doughnut	

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		1	S1	0.0		Loose brown silty fine SAND, organics, dry.
		2				
		3				
		3	16"24"	2.0		Very loose brown red silty fine to coarse SAND, little rock fragments, slag, dry.
		2	S2	2.0		
		2				FILL
		2	14"24"	4.0		
		3	No	4.0		No Recovery
		4	Recovery			
5		5				
		7	2"24"	6.0		Loose brown red silty fine to coarse SAND, little rock fragments, slag, dry.
		5	S3	6.0		
		4				
		4	15"24"	8.0		
		4	S4	8.0		Same.
		100/4	4"24"	8.9		Obstruction at 8.3 ft.
10						Note: Moved 4.0 ft. to south. Blind augered to 10.0 ft. and hit auger refusal again. Moved again 10.0 ft. south of second boring. See Boring HA-113a.
15						
20						
25						
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample
						Geoprobe			
						Overburden (Linear ft)	27.0 ft.		
						Rock Cored (Linear ft)	--		
						Number of Samples	85		
						BORING NO.	HA-113		

TEST BORING REPORT

BORING NO.
HA-113a
Page 2 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	7-Jun-00
DRILLER	L. TODD	DATE FINISHED	8-Jun-00

Elevation	270.8	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Drill Mud
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV <input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Bentonite
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track <input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Safety
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid <input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Doughnut
						<input checked="" type="checkbox"/> None
						Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						(Blind augered to 10.0 ft.) See Boring HA-113
5						
10	1	S5	10.0			Loose brown red silty fine to coarse SAND, little rock fragments, slag, moist.
	2					FILL
	3	3 7/24"	12.0			
15	7	S6	15.0			(Slag obstruction in spoon)
	11					
	14	1 7/24"	17.0			
20	3	S7	20.0		20.0	Very dense gray brown silty fine to coarse SAND, some gravel, pockets of clayey silt, moist.
	14					GLACIAL TILL
	36					
	50	22 7/24"	22.0			
25	30	S8	25.0			Same as above.
	76					
	98					
	100/3	22 7/24"	27.0			Bottom of Exploration at 27.0 ft.
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	27.0 ft.
						T	Thin Wall Tube	Rock Cored (Linear ft)	-
						U	Undisturbed Sample	Number of Samples	8S
						S	Split Spoon Sample		
						G	Geoprobe		
								BORING NO.	HA-113a

TEST BORING REPORT

BORING NO.
HA-114

PROJECT PORT OF ROCHESTER
LOCATION ROCHESTER, NEW YORK
CLIENT LABELLA ASSOCIATES
CONTRACTOR GEOLOGIC ENTERPRISES
DRILLER L. TODD

H&A FILE NO. 70819-000
PROJECT MGR. M. VALENTINE
FIELD REP. R. DEDRICK
DATE STARTED 25-May-00
DATE FINISHED 25-May-00

Elevation	261.92 ft		Datum			City			Boring Location	See Boring Location Plan			Drill Mud
Item	Casing	Sampler	Core Barrel	Rig Make & Model		CME 55 - Truck Mount			Hammer Type		Bentonite Polymer None		
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head			<input type="checkbox"/> Winch		<input type="checkbox"/> Safety		
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Roller Bit			<input type="checkbox"/> Doughnut		<input checked="" type="checkbox"/> None		
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Cutting Head			<input type="checkbox"/> Casing		<input type="checkbox"/> Driven	<input type="checkbox"/> Spun	
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid									

Depth (ft)	Casing	Sampler	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0			S1	0.0		Medium dense brown sandy SILT, brick, dry.
						FILL
			S2	2.0		Medium dense brown black sandy SILT, brick, slag, dry.
			S3	4.0		Same.
5			S4	6.0		Medium dense brown black silty SAND, brick, slag, dry.
			S5	8.0		Same, except some rock fragments.
			S6	10.0		Concrete Obstruction (offset 6' south of initial location, see log HA-114a)
15						
20						
25						
30						

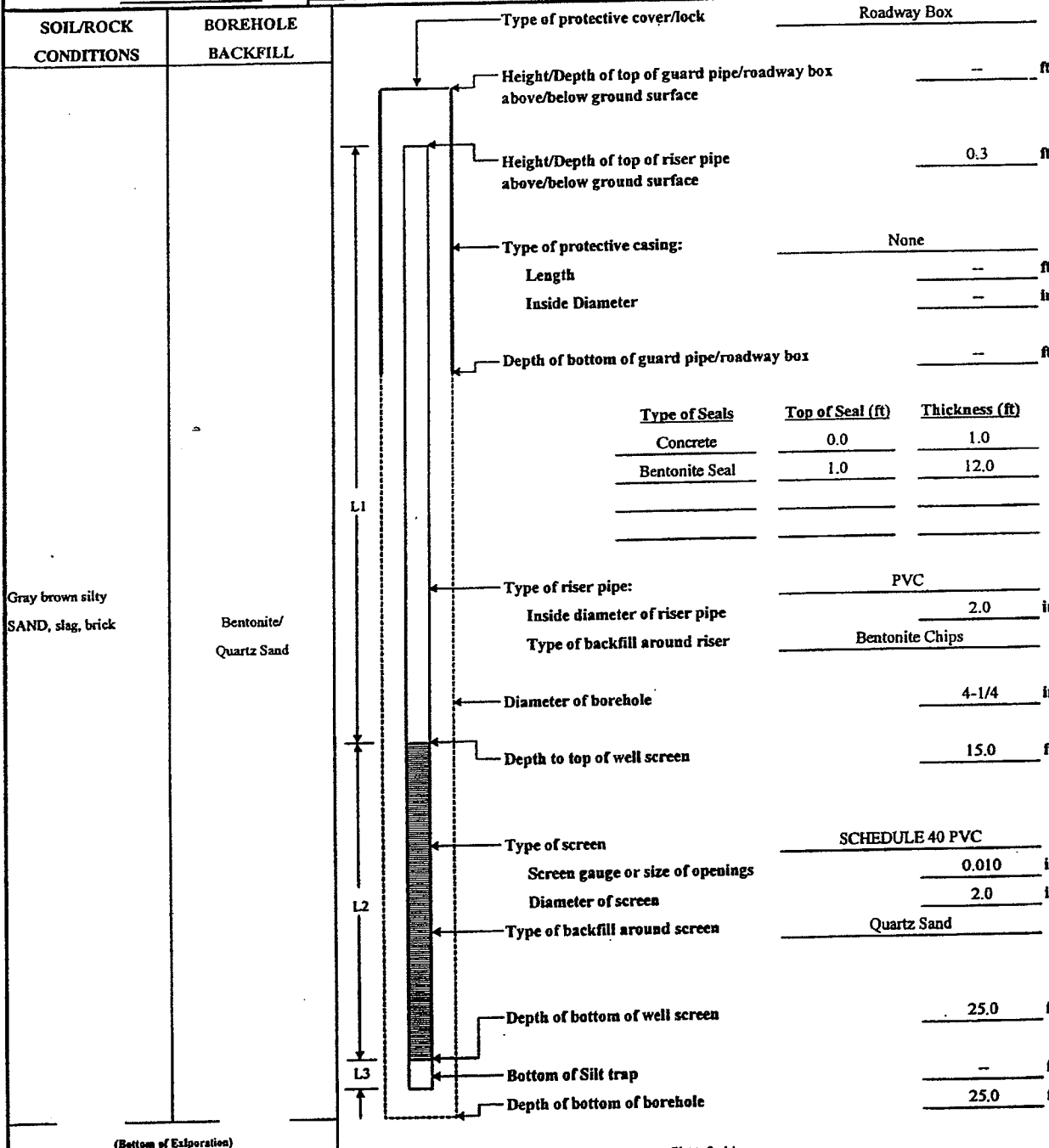
Water Level Data					Sample ID		Summary		
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	Overburden (Linear ft)	25.0
						U <td>S <th>Rock Cored (Linear ft)</th> <th>-</th> </td>	S <th>Rock Cored (Linear ft)</th> <th>-</th>	Rock Cored (Linear ft)	-
						G <td></td> <th>Number of Samples</th> <th>108</th>		Number of Samples	108
							BORING NO.		HA-114

OBSERVATION WELL INSTALLATION REPORT

Well No.
LBA-MW3
Boring No.
HA-114a

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE INSTALLED	5/25/2000
DRILLER	L. TODD	WATER LEVEL	

Ground EL	Not Surveyed	ft	Location	North Parking Lot	<input type="checkbox"/> Guard Pipe
EL Datum	Not Surveyed				<input checked="" type="checkbox"/> Roadway Box



(Bottom of Expiration) (Net to Scale)

(Numbers refer to depth from ground surface in feet)

14.7	ft	+	10	ft	+	0	ft	=	24.7	ft	
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length		

COMMENTS: _____

TEST BORING REPORT

BORING NO.
HA-116

Page 1 of 1

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	2-Jun-00
DRILLER	L. TODD	DATE FINISHED	2-Jun-00

Elevation	252.4	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Hammer Type
						<input checked="" type="checkbox"/> Safety
						<input type="checkbox"/> Doughnut
						<input type="checkbox"/> Casing
						<input type="checkbox"/> Driven
						<input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						0.4 ft. TOPSOIL
		4	S1	0.0		Medium dense black blue silty fine to coarse SAND, slag, dry.
		16				FILL
		19				
		24	11 7/24"	2.0		
		22	S2	2.0		Same, except wet.
		12				
		21	12 7/24"	4.0		
		42	S3	4.0		Same.
		25				
5		10				
		20	8 7/24"	6.0		Medium dense brown fine to coarse SAND, slag.
		14	S4	6.0		
		12				
		4				
		2	10 7/24"	8.0		Medium dense gray brown fine to coarse SAND, some gravel, wet.
		3	S5	8.0		
		5				
		8				
		10	8 7/24"	10.0		Same.
10		18	S6	10.0		
		7				
		4				ALLUVIUM
		6	8 7/24"	12.0		
15		1	S7	15.0		Loose gray brown fine sand SILT, organics, moist.
		2				
		3				
		3	3 7/24"	17.0		
20		2	S8	20.0		Very loose gray brown fine sand SILT, little clay, organics, moist.
		1				
		3				
		3	16 7/24"	22.0		
25		1	S9	25.0		Same.
		1				
		2				
		3	18 7/24"	27.0		Bottom of Exploration at 27.0 ft.
30						

Water Level Data					Sample ID		Summary		
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)				
						O	Open End Rod	Overburden (Linear ft)	27
						T	Thin Wall Tube	Rock Cored (Linear ft)	-
						U	Undisturbed Sample	Number of Samples	3S
						S	Split Spoon Sample		
						G	Geoprobe		
							BORING NO.	HA-116	

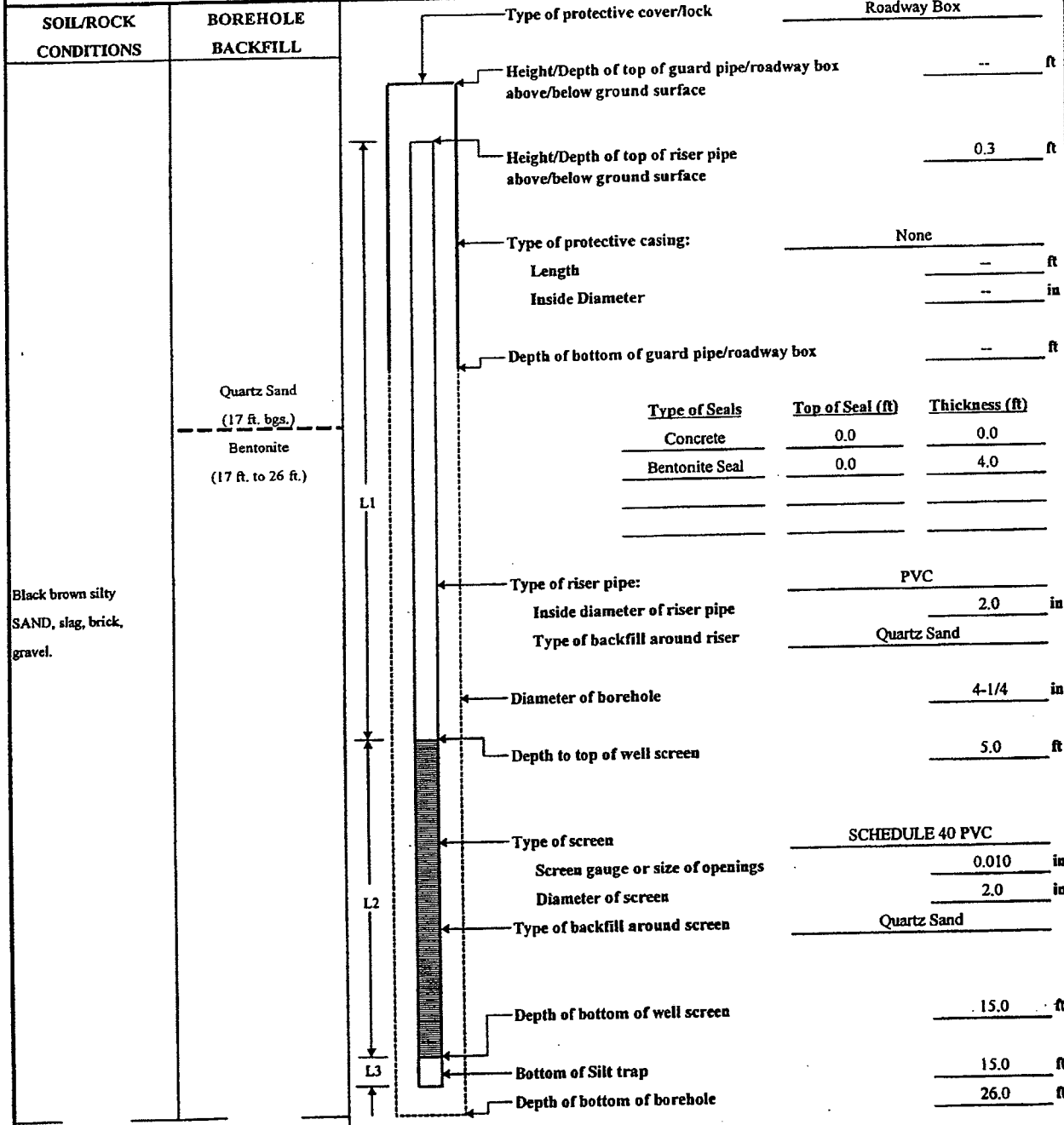


OBSERVATION WELL INSTALLATION REPORT

Well No.
LBA-MW2
Boring No.
HA-117

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE INSTALLED	5/24/2000
DRILLER	L. TODD	WATER LEVEL	

Ground EL	Not Surveyed	ft	Location		<input type="checkbox"/> Guard Pipe
EL Datum	Not Surveyed				<input checked="" type="checkbox"/> Roadway Box



(Bottom of Expiration) (Numbers refer to depth from ground surface in feet) (Not to Scale)

$$\begin{array}{r}
 \underline{5} \text{ ft} + \underline{10} \text{ ft} + \underline{0} \text{ ft} = \underline{15} \text{ ft} \\
 \text{Riser Pay Length (L1)} \quad \text{Length of screen (L2)} \quad \text{Length of silt trap (L3)} \quad \text{Pay length}
 \end{array}$$

COMMENTS: Bottom of borehole seal from 26.0 ft. to 17.0 ft. b.g.s. using Bentonite Chips.

TEST BORING REPORT

BORING NO.
HA-118

Page 1 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	8-Jun-00
DRILLER	L. TODD	DATE FINISHED	8-Jun-00

Elevation	242.78	ft	Datum	City	Boring Location	See Boring Location Plan	Drill Mud
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount		Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input checked="" type="checkbox"/> None
							Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						ASPHALT
			S1	0.5		Medium dense black brown red silty fine to coarse SAND, brick, some rock fragments, dry.
			13"/18"	2.0	2.0	FILL
			S2	2.0		Medium dense brown silty fine to coarse SAND, moist.
			12"/24"	4.0		ALLUVIUM
			S3	4.0		Loose gray brown silty fine to medium SAND, organics, moist.
5			12"/24"	6.0		
			S4	10.0		Medium dense gray fine to coarse SAND, little silt, little gravel, wet.
			16"/24"	12.0		
15			S5	15.0		Very loose brown organic SILT, moist.
			16"/24"	17.0		
20			S6	20.0	20.0	Medium dense gray brown silty fine to coarse SAND, some gravel, moist.
			20"/24"	22.0		GLACIAL TILL
25			S7	25.0		Very dense brown silty fine to coarse SAND, some gravel, moist.
			10"/10"	25.9		

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
5/8/2000		0.5			9.1				
						Overburden (Linear ft)		51	
						Rock Cored (Linear ft)		--	
						Number of Samples		12S	
						BORING NO.		HA-118	

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		100/4	S8 3 ⁷ / ₅ "	30.0 30.4		Very dense brown silty fine to coarse SAND, some gravel, moist.
35		18 77 100/5	S9 12 ¹¹ / ₁₈ "	35.0 36.5		Same, except gray brown.
40		36 66 98 87	S10 12 ⁷ / ₂₄ "	40.0 42.0		Same.
45		100/5	S11 3 ⁵ / ₆ "	45.0 45.5		Same, except trace rock fragments.
50		100/4	S12 4 ⁷ / ₅ "	50.0 50.5		Very dense red silty sandstone rock fragments. Bottom of Exploration at 51.0 ft.
55						
60						
65						
70						

TEST BORING REPORT

BORING NO.
HA-119

Page 1 of 2

PROJECT PORT OF ROCHESTER
LOCATION ROCHESTER, NEW YORK
CLIENT LABELLA ASSOCIATES
CONTRACTOR GEOLOGIC ENTERPRISES
DRILLER L. TODD

H&A FILE NO. 70819-000
PROJECT MGR. M. VALENTINE
FIELD REP. R. DEDRICK
DATE STARTED 2-Jun-00
DATE FINISHED 2-Jun-00

Elevation	250.52	ft	Datum	City	Boring Location	See Boring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount			Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut	<input checked="" type="checkbox"/> None
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						ASPHALT
		44	S1	1.0		Very dense brown gravelly fine to coarse SAND, dry.
		66	3"7/12"	2.0		FILL
		10	S2	2.0		Medium dense brown silty fine to medium SAND, little silt, wet.
		10				ALLUVIUM
		6	14"7/24"	4.0		
		7	S3	4.0		Medium dense brown gray, fine to coarse SAND, little silt, wet.
5		7	16"7/24"	6.0		
		8	S4	6.0		Medium dense gray brown fine to coarse SAND, some silt, little rock fragments, wet.
		12				
		20	10"7/24"	8.0		
		5	S5	8.0		Medium dense gray brown gravelly fine to coarse SAND, trace silt, wet.
		14				
		25	20"7/24"	10.0		
10						
		14	S6	14.0		Loose gray brown sandy SILT, wet.
15		3	18"7/24"	16.0		
		3				
		3	S7	19.0		Loose gray brown silty fine to coarse SAND, trace gravel, wet.
20		3	20"7/24"	21.0		
		3				
		6	S8	24.0		Loose gray brown fine to medium sandy SILT, trace clay, organics, moist.
25		2	15"7/24"	26.0		
		3				
		1	S9	29.0		Same.
30		3	14"7/24"	31.0		

Water Level Data						Sample ID		Summary					
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S	G	Overburden (Linear ft)	Rock Cored (Linear ft)	Number of Samples
											51	--	13S
											BORING NO.	HA-119	

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
				31.0		
		1	S10	34.0		Loose gray brown fine sand SILT, trace clay, organics, moist.
35		2				
		3	17" / 24"	36.0		
		1	S11	39.0		Same.
40		2				
		3	22" / 24"	41.0		
		1	S12	44.0		Loose, gray fine sand SILT, trace clay, organics.
45		2				
		3	24" / 24"	46.0		
		1	S13	49.0		Same.
50		2				
		4	18" / 24"	51.0		Bottom of Exploration at 51.0 ft.
55						
60						
65						
70						

TEST BORING REPORT

BORING NO.

HA-120

Page 1 of 2

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	8-Jun-00
DRILLER	L. TODD	DATE FINISHED	9-Jun-00

Elevation	254.31	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head
			Hammer Type		<input type="checkbox"/> Bentonite	
			<input checked="" type="checkbox"/> Safety		<input type="checkbox"/> Polymer	
			<input type="checkbox"/> Doughnut		<input checked="" type="checkbox"/> None	
			Casing		<input type="checkbox"/> Driven <input type="checkbox"/> Spun	

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						ASPHALT
	6		S1	0.5		Medium dense gray to black fine to coarse SAND, some rock fragments, dry.
	10					FILL
	20		10" / 18"	2.0		
	5		S2	2.0		Medium dense black to red brown silty fine to coarse SAND, some rock fragments, dry.
	7					
	9		12" / 24"	4.0		
	6		S3	4.0		Same, except loose.
5	3					
	3		12" / 24"	6.0	6.0	Very loose brown silty fine to medium SAND, trace rock fragments, moist.
	1		S4	6.0		ALLOVIUM
	1					
	1		7" / 24"	8.0		Same, except wet.
	1		S5	8.0		
	1					
	1		3" / 24"	10.0		Very loose gray brown silty fine to coarse SAND, little gravel, wet.
10	1		S6	10.0		
	3					
	4		18" / 24"	12.0		Same, except some gravel.
	5		S7	12.0		
	5					
	5					
	12		16" / 24"	14.0		Medium dense gray brown silty fine to coarse SAND, little gravel, wet.
	6		S8	14.0		
15	6					
	5					
	8		14" / 24"	16.0		
20	1		S9	20.0		Same, except very loose.
	2					
	2					
	3		14" / 24"	22.0		
25	3		S10	25.0		Very loose gray brown fine to medium sandy SILT, trace clay, organics, moist.
	1					
	2					
	1		14" / 24"	27.0		
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample
						Geoprobe			
								Overburden (Linear ft)	52
								Rock Cored (Linear ft)	--
								Number of Samples	155
								BORING NO.	HA-120

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		1	S11	30.0		Very loose gray brown fine to medium sandy SILT, trace clay, organics, moist.
		2				
		2	18"/24"	32.0		ALLUVIUM
35		1	S12	35.0		Same.
		2				
		2	24"/24"	37.0		
40		1	S13	40.0		Same.
		3				
		3	24"/24"	42.0		
45		1	S14	45.0		Same.
		2				
		4				
		3	22"/24"	47.0		
50		H	S15	50.0		Same.
		2				
		2	24"/24"	52.0		Bottom of Exploration at 52.0 ft.
55						
60						
65						
70						

TEST BORING REPORT

BORING NO.

HA-121

Page 1 of 2

PROJECT PORT OF ROCHESTER
 LOCATION ROCHESTER, NEW YORK
 CLIENT LABELLA ASSOCIATES
 CONTRACTOR GEOLOGIC ENTERPRISES
 DRILLER L. TODD

H&A FILE NO. 70819-000
 PROJECT MGR. M. VALENTINE
 FIELD REP. R. DEDRICK
 DATE STARTED 30-May-00
 DATE FINISHED 30-May-00

Elevation	276 +/-	ft	Datum	City	Boring Location	See Boring Location Plan	Drill Mud
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount		
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0		5	S1	0.0		Medium dense gray brown fine sand SILT, little clay, dry.
		8				FILL
		14	16"/24"	2.0		Dense gray red fine sand SILT, little clay, dry.
		18	S2	2.0		
		22				
		24	16"/24"	4.0	4.0	Dense brown silty fine to medium SAND, little clay, moist.
		14	S3	4.0		
5		20				ALLUVIUM
		24				
		20	18"/24"	6.0		Dense brown silty fine SAND, some clay, moist.
		14	S4	6.0		
		21				
		24				
		20	23"/24"	8.0		Dense brown silty fine to medium SAND, little clay, moist.
		19	S5	8.0		
		24				
		26				
10		28	20"/24"	10.0		Medium dense brown silty fine to coarse SAND, pockets of clay, moist.
		14	S6	10.0		
		8				
		12				
		17	19"/24"	12.0		
15		7	S7	15.0		Medium dense brown silty fine to coarse SAND, little clay, moist.
		9				
		9				
		10	16"/24"	17.0		
20		4	S8	20.0		Same.
		5				
		5				
		6	18"/24"	22.0		
25		3	S9	25.0		Loose gray brown sandy SILT, some clay, moist.
		3				
		4				
		4	20"/24"	27.0		
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample
						Geoprobe			
						Overburden (Linear ft)	61	Rock Cored (Linear ft)	10
						Number of Samples	16S		
						BORING NO.	HA-121		

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
35		2 6 8 10	S10 20"/24"	30.0 32.0		Medium dense brown gray silty fine to coarse SAND, little gravel, wet. GLACIAL TILL
40		2 16 18 20	S11 14"/24"	35.0 37.0		Same.
45		5 64 37 67	S12 17"/24"	40.0 42.0		Very dense brown gray silty fine to coarse SAND, some gravel, wet.
50		14 44 100/4	S13 17"/18"	45.0 46.5		Same, except little gravel.
55		6 100/2	S14 6"/8"	50.0 50.7		Same.
60		30 100/3	S15 3"/9"	55.0 55.8		Same.
65		100/4	S16 2"/5"	60.0 60.4	60.4	Same. Began Rock Coring at 61.0 ft. Moderately fractured red SANDSTONE with interbedded gray sandstone, clay pockets.
70						BEDROCK
						Bottom of Exploration at 71.0 ft.

CORE BORING REPORT

BORING NO.
HA-121

Page 1 of 1

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE STARTED	31-May-00
DRILLER	L. TODD	DATE FINISHED	31-May-00

Elevation		ft Datum		Boring Location			
Item	Casing	Sampler	Core Barrel	Rig Make & Model		Drill Mud	
Type	HAS	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Polymer
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> None
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing <input type="checkbox"/> Driven <input type="checkbox"/> Spun
						<input checked="" type="checkbox"/> Safety	
						<input type="checkbox"/> Doughnut	

Depth (ft)	Drilling Rate (min/ft)	Core No. Depth (ft)	Recovery RQD		Weathering	Stratum Change (ft)	Visual Classification and Remarks
			(in)	(%)			
		61.0					
	6 to 7 minutes per foot	4.8/2.1					Moderately fracture red SANDSTONE with interbedded gray sandstone, clay pockets.
							QUEENSTONE FORMATION
5		66.0					
	5 to 5 minutes per foot	4.3/3.9					
10		71.0					Bottom of Exploration at 71.0 ft.
15							
20							
25							
30							

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	T	U	S
						Open End Rod <td>Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample </td></td></td>	Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample </td></td>	Undisturbed Sample <td>Split Spoon Sample </td>	Split Spoon Sample
						Geoprobe			
								Overburden (Linear ft)	61
								Rock Cored (linear ft)	10
								Samples	16S
								BORING NO.	HA-121

TEST BORING REPORT

BORING NO.
HA-122

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	D. NOSTRANT
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	31-May-00
DRILLER	L. TODD	DATE FINISHED	31-May-00

Elevation	252.8	ft	Datum	City	Boring Location	See Boring Location Plan
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME-55 Truck Mount	
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head
Inside Diameter (in)	3-1/4	1-3/8	1-7/8	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch
Hammer Weight (lb)	-	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit
Hammer Fall (in)	-	30		<input type="checkbox"/> Skid		<input checked="" type="checkbox"/> Cutting Head
						Drill Mud
						<input type="checkbox"/> Bentonite
						<input type="checkbox"/> Polymer
						<input checked="" type="checkbox"/> None
						<input type="checkbox"/> Casing
						<input type="checkbox"/> Driven
						<input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0					0.3	TOPSOIL
	7		S1	0.0		Medium dense dark brown, coarse to fine sand, little cinders, little gravel.
	8					
	10					FILL
	6	8	14"/24"	2.0		
	6		S2	2.0		Same.
	5					
	3	3	10"/24"	4.0		No Recovery.
5	3		S3	4.0		
	2					
	2	2	0"/24"	6.0		
	3		S4	6.0		Loose dark brown coarse to fine sand, some gravel, trace silt, wet.
	2					
	2	2	2"/24"	8.0		Same.
	3					
	21		18"/24"	10.0		
10	1		S6	10.0		Same.
	2					
	6					
	10		14"/24"	12.0		
	26		S7	12.0		
	24					
	10				13.2	Dense blue-gray gravel, little coarse to fine sand, wet.
	3	9	20"/24"	14.0		
	2		S8	14.0		Very loose brown ORGANICS, trace sand, trace silt, wet.
15	1				14.3	
	3		16"/24"	16.0		Very loose gray-brown fine clayey SILT, some sand, little organics, moist.
						ALLUVIUM
20	1		S9	20.0		Same, except little fine sand.
	2					
	1					
	2		24"/24"	22.0		
25	2		S10	25.0		Same.
	2					
	2					
	3		20"/24"	27.0		
30						

Water Level Data				Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)		
						O	Open End Rod
						T	Thin Wall Tube
						U	Undisturbed Sample
						S	Split Spoon Sample
						G	Geoprobe
						Overburden (Linear ft)	37
						Rock Cored (Linear ft)	5
						Number of Samples	128
						BORING NO.	HA-122

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
		2	S11	30.0		Loose gray-brown clayey SILT, little fine sand, little organics, moist.
		3				
		3	24"/24"	32.0		ALLUVIUM
35		1	S12	35.0		
		6			36.0	
		8				Medium dense brown-red coarse to fine sandy SILT, some gravel, little clay, damp to moist. GLACIAL TILL
		30	15"/24"	37.0	37.0	Observed auger refusal at 37.0 ft. Begin coring at 37.0 ft. See Core Boring Report.
40						
						Bottom of Exploration at 42.0 ft.
45						
50						
55						
60						
65						
70						

CORE BORING REPORT

BORING NO.
HA-122

Page 1 of 1

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISE	DATE STARTED	30-May-00
DRILLER	L. TODD	DATE FINISHED	30-May-00

Elevation			Datum		Boring Location				Drill Mud	
Item	Casing	Sampler	Core Barrel	Rig Make & Model				Hammer Type		
Type	HAS	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	<input type="checkbox"/> Bentonite			
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety		<input type="checkbox"/> Polymer	
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut		<input checked="" type="checkbox"/> None	
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven	<input type="checkbox"/> Spun	

Depth (ft)	Drilling Rate (min/ft)	Core No. Depth (ft)	Recovery RQD		Weathering	Stratum Change (ft)	Visual Classification and Remarks
			(in)	(%)			
		37.0					37.0 Begin Coring at 37.0 ft.
							Moderately soft, moderately weathered red-brown-green mottled fine grained, very thin to thin bedded SANDSTONE with close to very close weathered shaley partings.
		R1	48 35	80 58	MOD		QUEENSTON FORMATION
40							
		42.0				42.0	Bottom of Boring at 42.0 ft.
45							
50							
55							
60							
65							

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	37
						T	Thin Wall Tube	Rock Cored (linear ft)	5
						U	Undisturbed Sample	Samples	12S
						S	Split Spoon Sample		
						G	Geoprobe		
								BORING NO.	HA-122

TEST BORING REPORT

BORING NO.
HA-123

Page 1 of 4

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	5-Jun-00
DRILLER	L. TODD	DATE FINISHED	6-Jun-00

Elevation	253.64	ft	Datum	City	Boring Location	See Boring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model	CME 55 - Truck Mount			Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety	<input type="checkbox"/> Polymer
Hammer Weight (lb)	—	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut	<input checked="" type="checkbox"/> None
Hammer Fall (in)	—	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0	4		S1	0.0		(0.3 ft. TOPSOIL)
	8					Medium dense brown gray sandy SILT, little coarse gravel, dry.
	8					FILL
	8	8	8"7/24"	2.0		
	7		S2	2.0		Medium dense brown red silty fine to coarse SAND, trace fine gravel, dry.
	8					
	8		13"7/24"	4.0		
	5		S3	4.0		Same, except moist.
5	4					
	3		16"7/24"	6.0		
	2		S4	6.0		Loose brown red silty fine to coarse SAND, trace fine gravel, wet.
	2					
	2		20"7/24"	8.0		
	1		S5	8.0		Medium dense black brown silty fine to coarse SAND, wood, wet.
	4					
	8		16"7/24"	10.0		
10	5		S6	10.0		No Recovery.
	5					
	2		0"7/24"	12.0		
	5		S7	12.0		No Recovery.
	5					
	5		0"7/24"	14.0		
	5		S8	14.0		Loose gray brown silty fine to coarse SAND, some organics, moist.
15	4					
	1		19"7/24"	16.0		ALLUVIUM
	2		S9	19.0		Loose gray brown clayey SILT, little sand, moist.
20	2					
	2		10"7/24"	21.0		
	1		S10	24.0		Same, except little clay.
25	2					
	2		14"7/24"	26.0		
	2		S11	29.0		Same.
30	2					
	4		15"7/24"	31.0		

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	114
						T	Thin Wall Tube	Rock Cored (Linear ft)	2
						U	Undisturbed Sample	Number of Samples	248
						S	Split Spoon Sample		
						G	Geoprobe		
								BORING NO.	HA-123

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
				31.0		
35	2	2	S11	34.0		Very loose gray brown fine to medium sand SILT, trace clay, organics, moist.
		4	20"/24"	36.0		
						ALLUVIUM
40	1	2	S12	39.0		Same.
		3	14"/24"	41.0		
45	1	2	S13	44.0		Very loose gray silty fine to medium SAND, moist.
		3	19"/24"	46.0		
50	1	2	S14	49.0		Loose gray fine sand SILT, trace clay, organics, moist.
		3				
		4	20"/24"	51.0		
55	1	1	S15	54.0		Same.
		3				
		3	20"/24"	56.0		
60	1	2	S16	59.0		Same.
		5				
		4	20"/24"	61.0		
65		3	S17	64.0		Loose gray fine sand SILT, trace clay organics, moist.
		1				
		4				
		5	24"/24"	66.0		
70	WOH	5	S18	69.0		Same, except medium dense.
		7				
		8	22"/24"	71.0		

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
75	4 5	8	S19	74.0		Medium dense gray fine sandy SILT, trace clay, organics moist.
						ALLUVIUM
		9	22"/24"	76.0		
80	2 5	7	S20	79.0		Same.
		9	23"/24"	81.0		
85	5 5	8	S21	84.0		Same.
		9	20"/24"	86.0		
90	5 5	8	S22	89.0		Medium dense gray brown silty medium to fine SAND, trace clay, moist.
			21"/24"	91.0		
95	WOR WOR WOR	5	S23	94.0		Very loose gray brown silty medium to fine SAND, trace clay, moist.
			22"/24"	96.0		
100	5 7	8	S24	99.0		Same, except medium dense.
		9	22"/24"	101.0		
105	WOR WOR WOR WOR		S25	104.0		Same, except very loose.
			24"/24"	106.0		
110	3 5	5	S26	109.0		Medium dense gray brown silty fine to medium SAND, trace clay, pockets of rock fragments, moist.
		12	23"/24"	111.0		

TEST BORING REPORT

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
						ALLUVIUM
					114.0	Very dense sandy ROCK FRAGMENTS.
115		100/2	S27 2 ² / ₃ "	114.0 114.2		WEATHERED BEDROCK Began rock coring 114.0 ft.
						Bottom of Exploration at 116.0 ft.
120						
125						
130						
135						
140						
145						
150						

TEST BORING REPORT

**BORING NO.
HA-125**

PROJECT	PORT OF ROCHESTER	H&A FILE NO.	70819-000
LOCATION	ROCHESTER, NEW YORK	PROJECT MGR.	M. VALENTINE
CLIENT	LABELLA ASSOCIATES	FIELD REP.	R. DEDRICK
CONTRACTOR	GEOLOGIC ENTERPRISES	DATE STARTED	12-Jun-00
DRILLER	L. TODD	DATE FINISHED	12-Jun-00

Elevation	255.29	ft	Datum	City	Boring Location	See Boring Location Plan		
Item	Casing	Sampler	Core Barrel	Rig Make & Model			CME 55 - Truck Mount	Drill Mud
Type	HSA	SS	NX	<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input checked="" type="checkbox"/> Cat-Head	Hammer Type	<input type="checkbox"/> Bentonite
Inside Diameter (in)	3-1/4	1-3/8	2	<input type="checkbox"/> ATV	<input type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input checked="" type="checkbox"/> Safety	<input type="checkbox"/> Polymer
Hammer Weight (lb)	--	140		<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> Doughnut	<input checked="" type="checkbox"/> None
Hammer Fall (in)	--	30		<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Casing	<input type="checkbox"/> Driven <input type="checkbox"/> Spun

Depth (ft)	Casing Blows per ft	Sampler Blows per 6 in	Sample Number & Recovery	Sample Depth (ft)	Stratum Change (ft)	Visual Classification and Remarks
0						ASPHALT CRUSHED STONE
		12	S1	1.0		Medium dense brown black gravelly SAND, slag, dry.
		7	4"/12"	2.0		
		3	S2	2.0		Loose brown gray silty fine to medium SAND, damp.
		4				FILL
		2				
		7	15"/24"	4.0		
		3	S3	4.0		Same.
		2				
5		4				
		2	14"/24"	6.0		
		3	S4	6.0		Loose gray silty fine SAND, some clay, little gravel, damp.
		3				
		7	18"/24"	8.0		
		8	S5	8.0		Very dense brown gray silty fine SAND, some gravel, damp.
		28				
		29				
		28	15"/24"	10.0		Bottom of Exploration at 10.0 ft.
10						
15						
20						
25						
30						

Water Level Data						Sample ID		Summary	
Date	Time	Elapsed Time (hrs)	Bottom of Casing (ft)	Bottom of Boring (ft)	Water (ft)	O	Open End Rod	Overburden (Linear ft)	10
						T	Thin Wall Tube	Rock Cored (Linear ft)	--
						U	Undisturbed Sample	Number of Samples	58
						S	Split Spoon Sample	BORING NO. HA-125	
						G	Geoprobe		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #1 PROJECT # 99150 DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling LOCATION: East end of abandoned RR Tracks CLIENT: City of Rochester CONTRACTOR: N/A EQUIPMENT: shovel				ELEVATION: LABELLA REP: TMS/MFP
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0"-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES 	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 1	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #2
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling			ELEVATION:	
LOCATION: Center of Abandoned RR Tracks			LABELLA REP: TMS/MFP	
CLIENT: City of Rochester				
CONTRACTOR: N/A				
EQUIPMENT: shovel				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0"-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 2	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #3
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT:		Port of Rochester - Shallow Soil Sampling		ELEVATION:
LOCATION:		West end of Abandoned RR Tracks		LABELLA REP: TMS/MFP
CLIENT:		City of Rochester		
CONTRACTOR:		N/A		
EQUIPMENT:		shovel		
SCALE	SAMPLE	SAMPLE	DESCRIPTION OF MATERIALS	REMARKS
IN	NUMBER	DEPTH		
FEET		RANGE		
1			cinders	Composite Sample 0"-12"
2			gravel	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 3	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614				TEST PIT #4 PROJECT # 99150 DATE: 7-30-00	
PROJECT: Port of Rochester - Shallow Soil Sampling LOCATION: Along RR Tracks East of RG&E Substation CLIENT: City of Rochester CONTRACTOR: N/A EQUIPMENT: shovel				ELEVATION: LABELLA REP: TMS/MFP	
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS	
1			cinders gravel	Composite Sample 0'-12"	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT 4		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.					TEST PIT #5
300 STATE STREET					PROJECT # 99150
Rochester, New York 14614					DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling					ELEVATION: LABELLA REP: TMS/MFP
LOCATION: Approximately 300' South of SS-4					
CLIENT: City of Rochester					
CONTRACTOR: N/A					
EQUIPMENT: shovel					
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS		REMARKS
1			cinders gravel		Composite Sample 0'-12"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion			TEST PIT 5		

TEST PIT REPORT

LABELLA ASSOCIATES, P.C. 300 STATE STREET Rochester, New York 14614					TEST PIT #6 PROJECT # 99150 DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling LOCATION: Approximately 300' South of SS-5 CLIENT: City of Rochester CONTRACTOR: N/A EQUIPMENT: shovel					ELEVATION: LABELLA REP: TMS/MFP
SCALE		SAMPLE			
IN	SAMPLE	DEPTH	DESCRIPTION OF MATERIALS		REMARKS
FEET	NUMBER	RANGE			
1			cinders gravel		Composite Sample 0'-12"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
WATER LEVEL			GENERAL NOTES		
DATE	TIME*	DEPTH			
* Hrs. after completion					TEST PIT 6

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #7
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT:		Port of Rochester - Shallow Soil Sampling		ELEVATION: LABELLA REP: TMS/MFP
LOCATION:		Approximately 300' South of SS-6		
CLIENT:		City of Rochester		
CONTRACTOR:		N/A		
EQUIPMENT:		shovel		
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0"-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion				TEST PIT 7

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #8
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling			ELEVATION:	
LOCATION: Approximately 300' South of SS-7; approaching Stutson St. Bridge			LABELLA REP: TMS/MFP	
CLIENT: City of Rochester				
CONTRACTOR: N/A				
EQUIPMENT: shovel				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0"-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 8	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #9
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling			ELEVATION:	
LOCATION: Near Marine Fire Department Trailer			LABELLA REP: TMS/MFP	
CLIENT: City of Rochester				
CONTRACTOR: N/A				
EQUIPMENT: shovel				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0"-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 9	

TEST PIT REPORT

LABELLA ASSOCIATES, P.C.				TEST PIT #10
300 STATE STREET				PROJECT # 99150
Rochester, New York 14614				DATE: 7-30-00
PROJECT: Port of Rochester - Shallow Soil Sampling				ELEVATION: LABELLA REP: TMS/MFP
LOCATION: Property Listed as 000 River Street				
CLIENT: City of Rochester				
CONTRACTOR: N/A				
EQUIPMENT: shovel				
SCALE IN FEET	SAMPLE NUMBER	SAMPLE DEPTH RANGE	DESCRIPTION OF MATERIALS	REMARKS
1			cinders gravel	Composite Sample 0'-12"
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
WATER LEVEL			GENERAL NOTES	
DATE	TIME*	DEPTH		
* Hrs. after completion			TEST PIT 10	

LABELLA ASSOCIATES, P.C. STATE STREET, ROCHESTER, NEW YORK	PROJECT Port of Rochester 46 Latta Road	BORING # 1 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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ENVIRONMENTAL ENGINEERING CONSULTANTS	BORING LOCATION	DATUM
CONTRACTOR Marcor	GROUND SURFACE ELEVATION	
DRILLER Jim	START DATE 8/21/00	END DATE 8/21/00
LABELLA REPRESENTATIVE	DEP/TMS	

TYPE OF DRILL RIG geo-probe(Truck)	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION	LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)						
1						light brown fine sand/silt ↓			dry	0 ppm	
2									dry	0 ppm	
3									dry	0 ppm	
4									dry		
5						sandy clay - light brown			dry	0 ppm	
6									dry	0 ppm	
7						beige clay - very compact			dry	0 ppm	
8									dry	0 ppm	
9						clay - beige and gray gravel and clay (reddish) fine to medium sand and silts with some gravel			moist		
10									moist/dry	0 ppm	
11									saturated	0 ppm	
12								saturated	0 ppm		
13											
14											
15											
16											

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Port of Rochester
46 Latta Rd

BORING # 02/MW-1
SHEET 1 OF 1
JOB # 99150
CHKD. BY:tms

CONTRACTOR: Marcor
OWNER: Jim
LABELLA REPRESENTATIVE: DEP/TMS

BORING LOCATION
GROUND SURFACE ELEVATION DATUM
START DATE 8/21/00 END DATE 8/21/00

TYPE OF DRILL RIG: Geo-probe
AUGER SIZE AND TYPE
OVERBURDEN SAMPLING METHOD
ROCK DRILLING METHOD

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)					
1						asphalt/gravel - black and gray sub-base	flush mount road box dry	Bentonite seal 0'-3' 1" PVC solid riser 0'-5'		
2						silty clay - light brown	dry		0 ppm	
3						more clay/less silt	moist	quartz sand pack 3-15'	0 ppm	
4										
5						clay with some silt			0 ppm	
6						clay	moist/saturated		0 ppm	
7						clay	moist		0 ppm	
8						organic gray/black	moist		0 ppm	
9						gray clay - very fine	moist	1" PVC well screen 5'-15'	0 ppm	
10						gravel and clay	saturated		0 ppm	
11						gravel and silt	saturated		0 ppm	
12						medium sand	saturated		0 ppm	
13						clay	saturated		0 ppm	
14						silty clay and water	saturated		0 ppm	
15						gravel	moist		0 ppm	
16						coarse sand	moist		0 ppm	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
R - ROCK CORE SAMPLE

NOTES: refusal at 2.5' first attempt
10' well screen

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 45 Latta Road	BORING # 3 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE DEP/TMS	START DATE 8/21/00	END DATE 8/21/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)		LOG	MOISTURE	PID	
1						asphalt coarse sand and gravel		dry	0 ppm	
2								dry	0 ppm	
3								dry	0 ppm	
4						clay, some silt		dry		
5						silty clay		moist		
						↓		moist	0 ppm	
								moist	0 ppm	
7						clay		moist	0 ppm	
8								moist		
9						clay		saturated		
10						gravel and sand		saturated	0 ppm	
11						sandy clay		saturated	0 ppm	
12								saturated	0 ppm	
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 360 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 45 Latta Road	BORING # 4 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE	DEP/TMS	START DATE 8/21/00 END DATE 8/21/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA			
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING
OVERBURDEN SAMPLING METHOD				REMARKS
ROCK DRILLING METHOD				

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)						LOG
1						asphalt, sand, gravel few chips of slag		dry	0 ppm	
2						silty clay with some gravel		dry	0 ppm	
3								moist	0 ppm	
4								moist		
5						silty clay		dry	0 ppm	
						black organic		moist	0 ppm	
7								moist	0 ppm	
						fine clay		moist	0 ppm	
8								moist		
9						clay - very compacted		saturated	0 ppm	
10						silty clay with some gravel		saturated	0 ppm	
11								saturated	0 ppm	
12								saturated	0 ppm	
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. TATE STREET, ROCHESTER, NEW YORK	PROJECT Port of Rochester 465 River Street	BORING # 5 SHEET 1 OF 1 JOB # 99150 CHKD. BY
ENVIRONMENTAL ENGINEERING CONSULTANTS		

CONTRACTOR Marcor	BORING LOCATION	
DRILLER Jim	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE	DEP/TMS	START DATE 8/21/00 END DATE 8/21/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD (%)	RECOVERY (INCHES)					
1						asphalt/gravel silty clay with gravel		dry	0 ppm	
2						black organic		dry	0 ppm	
3						green organic/swampy clay		moist	0 ppm	
4								moist		
5						gray organic silty clay		moist	0 ppm	
6								saturated	0 ppm	
7						clay wood chunks		moist	0 ppm	
8								moist	0 ppm	
9										
10						no recovery				
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 465 River Street	BORING # 6 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00	DATUM END DATE 8/21/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/ 6"		(FT.)	/RQD(%)	(INCHES)		LOG			
1						gravel-asphalt - black rocky		dry	0 ppm	
2						silty clay sand and gravel		dry	0 ppm	
3						very sandy coal chips		dry/moist	0 ppm	
4								moist		
5						black coarse sand and gravel		moist		
						beige/green clay		saturated	0 ppm	
						fine sand			0 ppm	
7						greenish clay with wood chips sand		moist/saturated	0 ppm	
8								moist/saturated		
9						wood chips		moist/saturated	0 ppm	
10						gray clay		saturated	0 ppm	
11						coarse sand/gravel		saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: refusal at 6,' 1st attempt
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 7 TATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 465 River Street	BORING # 7 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00	DATUM END DATE 8/21/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)					
1						2' recovery asphalt/gravel		dry/moist	0 ppm	
						few inches of clay	gray			
2						sandy gravel fill		dry/moist	0 ppm	
						brick				
3								dry/moist	0 ppm	
4								moist		
5						sandy gravel		moist	0 ppm	
						clay/silty clay		saturated	0 ppm	
						green organic clay			0 ppm	
7						with some gravel		moist/saturated	0 ppm	
									0 ppm	
8						fractured rock		moist/saturated		
9						gray sand and gravel		moist/saturated	0 ppm	
10									0 ppm	
						reddish medium/coarse sand and gravel		saturated	0 ppm	
11								saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 465 River Street	BORING #08-MW-2 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: Marcor CONTACT: ER: Jim LABELLA REPRESENTATIVE: DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/21/00 END DATE 8/21/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION			
							LOG	MOISTURE	PID	
1						topsoil				flush mount road box
						gravel/rocky				dry Bentonite seal 0'-3'
										1" PVC solid riser 0'-5'
2						black - organic				dry 0 ppm
										quartz sand pack 3-11'
3						clay				moist 0 ppm
4						gren/gray organics and clay				
5						sand				0 ppm
						brown/gray clay				moist/saturated 0 ppm
						silty clay				moist 0 ppm
7						silty clay with some sand				moist 0 ppm
8										
9						clay				moist 0 ppm
										1" PVC well screen 5'-11'
10						water encountered				saturated 0 ppm
						some gravel with clay				saturated 0 ppm
11						very saturated sand				saturated 0 ppm
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: 6-11' well screen
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. TATE STREET, ROCHESTER, NEW YORK	PROJECT Port of Rochester 465 River Street	BORING # 9 SHEET 1 OF 1 JOB # 99150 CHKD. BY
ENVIRONMENTAL ENGINEERING CONSULTANTS		

CONTRACTOR Marcor	BORING LOCATION	
DRILLER Jim	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE DEP/TMS	START DATE 8/21/00	END DATE 8/21/00

TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)					
1						sand and gravel light brown		dry	0 ppm	
2						black sand and gravel		dry	0 ppm	
3						slag		dry/moist	0 ppm	
4						light brown sand		dry/moist		
5						sand and gravel slag - blue and gray brown clay		moist moist	0 ppm 0 ppm	
7						no recovery		moist	0 ppm	
8								moist		
9						clay some sand		moist	0 ppm	
10						wood chips clay - reddish		moist	0 ppm	
11								moist	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 000 River Street	BORING # 10 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00 END DATE 8/21/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA															
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATE</th> <th style="width:10%;">TIME</th> <th style="width:20%;">WATER</th> <th style="width:15%;">CASING</th> <th style="width:40%;">REMARKS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER	CASING	REMARKS										
DATE	TIME	WATER	CASING	REMARKS												

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION			N O T E S
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		LOG	MOISTURE	PID	
1						silty sand with some dry clay		dry	0 ppm	
2								dry	0 ppm	
3						1" wide coal band		dry/moist	0 ppm	
4						clay		dry/moist		
5						silt	gray	dry/moist	0 ppm	
						clay	↓			
						clay with gravel	brown	dry/moist	0 ppm	
7							↓	moist		
						sand	reddish	moist	0 ppm	
9						coarse sand with gravel - reddish		saturated	0 ppm	
10								saturated	0 ppm	
11								saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: SE corner of 000 River St.
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 7 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 000 River Street	BORING # 11 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00	DATUM END DATE 8/21/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">WATER LEVEL DATA</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	WATER LEVEL DATA					DATE	TIME	WATER	CASING	REMARKS															
WATER LEVEL DATA																										
DATE	TIME	WATER	CASING	REMARKS																						

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	INSTALLATION	LOG	MOISTURE	PID	NOTES
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION					
	/6"		(FT.)	/RQD(%)	(INCHES)							
1						sand and gravel - asphalt				dry		
2						sand, gravel fill with bricks etc				dry		
3						gravel				dry		
4						silty clay				dry		
5						very distinct lines				dry/moist		
6						↓				moist		
7						clay				moist/saturated		
8						↓				moist/saturated		
9						coarse sand - very homogenous				saturated		
10						↓				moist		
11						↓				saturated		
12						silty clay				saturated		
13						purplish silt/fine sand with gravel						
14												
15												
16												

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: SW corner of 000 River St. PID not working - recalibrated and appears to be working better
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 000 River Street	BORING # 12 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00	DATUM END DATE 8/21/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD (%)	RECOVERY (INCHES)					
1						gravel/sand black light brown clay		dry	0 ppm	
2						silt with gravel gray - some brick frags		dry	0 ppm	
3								dry/moist	0 ppm	
4						gray/green clay		dry/moist		
5						reddish silt, some gravel		dry/moist	0 ppm	
								dry/moist	0 ppm	
7						gray/green clay with some gravel		moist	0 ppm	
8								moist	0 ppm	
9						sand with gravel light brown		saturated	0 ppm	
10								saturated	0 ppm	
11								saturated	0 ppm	
12						gray				
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 200 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 000 River Street	BORING # 13 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00	DATUM END DATE 8/21/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						sand and gravel		dry	0 ppm	
2						gravel and clay		dry	0 ppm	
3						gravel		dry	0 ppm	
4						silt and gravel		dry		
5						silt and gravel - gray		dry/moist	0 ppm	
6								dry/moist	0 ppm	
7						clay		moist	0 ppm	
8						no recovery		moist	0 ppm	
9						coarse - very coarse sand		saturated	0 ppm	
10						no recovery - too wet		saturated	0 ppm	
11								saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
---	---------------

GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 000 River Street	BORING # 14 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE DEP/TMS	START DATE 8/21/00	END DATE 8/21/00

TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	INSTALLATION	LOG	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION					
	/6"		(FT.)	/RQD(%)	(INCHES)							
1						gravel, rock, asphalt				dry	0 ppm	
2						silt				dry	0 ppm	
3						gravel				dry	0 ppm	
4						silty clay				moist		
5						silty clay				moist	0 ppm	
6										moist	6-10 ppm	
7										saturated	2-4 ppm	
8						coarse sand (black) silty clay				saturated		
9						silty clay with gravel				saturated	1 ppm	
10						sand and silt				saturated	0 ppm	
11						sand and gravel (coarse)				saturated	0 ppm	
12												
13												
14												
15												
16												

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: center of previous four borings
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GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 7 TATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 560 River Street	BORING # 15 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/21/00 END DATE 8/21/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/ 6"		(FT.)	/RQD(%)	(INCHES)		LOG			
1						gravel and sand		dry	0 ppm	
2						coarse sand		dry	0 ppm	
3								moist	0 ppm	
4						silty clay		dry/moist		
5						clay		moist	0 ppm	
6								moist		
7						coarse sand/water		saturated	0 ppm	
8						no recovery		saturated	0 ppm	
9						gray/brown clay		saturated	0 ppm	
10								saturated	0 ppm	
11						gray sand		saturated	0 ppm	
12						clay fine silt		saturated	0 ppm	
13						organic odor				
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 30 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 560 River Street	BORING # 16 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00 END DATE 8/22/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION				LOG
1						asphalt silt with gravel and rock frags (brown)		dry	0 ppm	
2						black silt/ medium sand		dry	0 ppm	
3						gray/black silt/fine sand with some clay		moist	0 ppm	
4								moist		
5						gray/black silt/soft clay		saturated	0 ppm	
6						some gravel/rock frags		saturated	0 ppm	
7						medium/coarse sand		saturated	0 ppm	
8								saturated		
9								saturated	0 ppm	
10								saturated	0 ppm	
11						brown silt/fine sand		saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: at 560 River Street Right of Way approximately 20' South and 30' East of tank pad
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 560 River Street	BORING # 17/MW-3 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: Marcor OPERATOR: Jim LABELLA REPRESENTATIVE: DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/22/00 END DATE 8/22/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	<table border="1"> <thead> <tr> <th colspan="5">WATER LEVEL DATA</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	WATER LEVEL DATA					DATE	TIME	WATER	CASING	REMARKS															
WATER LEVEL DATA																										
DATE	TIME	WATER	CASING	REMARKS																						

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT		NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)		INSTALLATION		
							LOG	MOISTURE PID	
1						blacktop		flush mount road box	
						sub-base		moist grout to surface	
2						brown silt/fine sand with gravel and rock frags		Bentonite seal 1'-2'	
							moist	1" PVC solid riser 0'-0 ppm	
3								quartz sand pack 2'-8'	
							moist	0 ppm	
4						black silt with organics		saturated	
								0 ppm	
5						gray silt with clay		saturated	0 ppm
								saturated	0 ppm
7								saturated 1" PVC Well	0 ppm
								Screened 3'-8'	0 ppm
8							saturated	0 ppm	
9									
10									
11									
12									
13									
14									
15									
16									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: at 560 River Street approximately 30' east of tank pit. Well located in the center of River St.
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. 307 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 560 River Street	BORING # 18 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/22/00 END DATE 8/22/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA DATE TIME WATER CASING REMARKS
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DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						blacktop sub-base		dry	0 ppm	
2						mixed gravel (fill)		dry	0 ppm	
3								moist	0 ppm	
4						brown and black silt/fine sand		moist		
5						black silt with wood		saturated	0 ppm	
6						gray silt with clay some fine sand 2" layer of organic		saturated	3.4 ppm	
7								saturated	0 ppm	
8						no recovery		saturated		
9						collapse from above		saturated	0 ppm	
10								saturated	0 ppm	
11						gray silt gray coarse sand		saturated	0 ppm	
12						gray/brown silt/fine sand with some clay				
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE -U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: at 560 River Street (Pelican) in River Street ROW west of the Pelican Restaurant
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Along Abandoned RR Tracks	BORING # 19 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE DEP/TMS	START DATE 8/22/00	END DATE 8/22/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION				LOG
1						railroad cinders and gravel - black and sandy		dry	0 ppm	
2								dry	0 ppm	
3						yellow slag		dry	0 ppm	
4						brown sand and gravel with rock fragments		dry		
5						cinders and sand - black		dry/moist	0 ppm	
6						brown sand		dry/moist		
7						brown clay		dry/moist	0 ppm	
8						brown sand and gravel with some silt		moist	0 ppm	
9						collapse from above		moist		
10						light brown clay		moist	0 ppm	
11						fine sand		moist	0 ppm	
12						clay		moist	0 ppm	
13						no recovery		moist/saturated	0 ppm	
14						brown clay with some silt/gravel		moist/saturated	0 ppm	
15								moist/saturated	0 ppm	
16								moist/saturated	0 ppm	

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: East end of former RR tracks
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Along Abandoned RR Tracks	BORING # 20 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION _____ DATUM _____ START DATE 8/22/00 END DATE 8/22/00	
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATE</th> <th style="width:15%;">TIME</th> <th style="width:20%;">WATER</th> <th style="width:15%;">CASING</th> <th style="width:35%;">REMARKS</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	N O T E S
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						railroad cinders		dry	0 ppm	
2						brown sand and gravel		dry	0 ppm	
3						cinders red brown coarse sand/gravel		dry	0 ppm	
4						no recovery		dry		
5						reddish brown fine sand		dry	0 ppm	
6						yellow brown silty clay		dry/moist	0 ppm	
7								dry/moist	0 ppm	
8						no recovery		moist	0 ppm	
9						collapse from above		moist		
10						clay with some silt		moist	0 ppm	
11								moist/saturated	0 ppm	
12								moist/saturated	0 ppm	
13						collapse from above		saturated	0 ppm	
14						light brown silty clay		saturated	0 ppm	
15								saturated	0 ppm	
16						gray clay - very compacted		saturated		

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Second from east end of former RR tracks
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Along Abandoned RR Tracks	BORING # 21 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00	DATUM END DATE 8/22/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	INSTALLATION	LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)							
1						railroad cinders				dry	0 ppm	
2						↓ fine				dry	0 ppm	
3						blue slag - sulfur odor				dry	0 ppm	
4						light brown clay/silt				dry		
5						collapse from above				moist		
6						light brown silt				moist	0 ppm	
7						↓				moist	0 ppm	
8						silty clay				moist	0 ppm	
9						light brown clay				moist/saturated	0 ppm	
10										moist/saturated	0 ppm	
11						gray clay - very compacted				moist/saturated	0 ppm	
12						↓				moist/saturated	0 ppm	
13										moist/saturated	0 ppm	
14										moist/saturated	0 ppm	
15						brown clay				moist/saturated	0 ppm	
16						brown silt/sand				moist/saturated	0 ppm	

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE - C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 30 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Near Split in W End of RR Tracks	BORING # 22 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00 END DATE 8/22/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATE</th> <th style="width:10%;">TIME</th> <th style="width:20%;">WATER</th> <th style="width:15%;">CASING</th> <th style="width:40%;">REMARKS</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S	
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION	LOG	MOISTURE		PID
1						gravel/cinders blue slag/cinders - sulfur odor			dry	0 ppm	
2						light brown silty clay			dry	0 ppm	
3						light brown silty clay			moist	0 ppm	
4						no recovery			moist		
5						collapse from above light brown/gray clay with some silt			moist	0 ppm	
6						light brown clay			moist	0 ppm	
7						gray silty clay			saturated	0 ppm	
8						yellow brown silty clay			saturated		
9						no recovery					
10											
11											
12											
13											
14											
15											
16											

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: near split in abandoned railroad (west end)
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester N End of RR Tracks	BORING # 23 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00	DATUM END DATE 8/22/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA
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D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S
	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION			
							LOG	MOISTURE	PID	
1						railroad cinders				dry 0 ppm
2						red sand				dry 0 ppm
3						brown silty clay				moist 0 ppm
4						brown clay				moist/saturated
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: near split in abandoned railroad (west end)
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Along N end of RR Tracks	BORING # 24 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION _____ DATUM _____ START DATE 8/22/00 END DATE 8/22/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE _____ OVERBURDEN SAMPLING METHOD _____ ROCK DRILLING METHOD _____	WATER LEVEL DATA
---	-------------------------

DATE	TIME	WATER	CASING	REMARKS

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)						LOG
1						railroad cinders		dry	0 ppm	
2						yellow slag		dry	0 ppm	
3						light brown silt		moist	0 ppm	
4						↓		moist/saturated		
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: along railroad tracks behind batting cages
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 490 River Street	BORING # 25 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00	DATUM END DATE 8/22/00
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	INSTALLATION	LOG	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY							
	/6"		(FT.)	/RQD(%)	(INCHES)							
1						cinders - black				dry	0 ppm	
2						medium-fine gray gravel rock fragments				dry	0 ppm	
3						black cinders				moist	0 ppm	
4						brown sand				moist/saturated		
5						gray sand				moist/saturated	0 ppm	
6						gray silt				saturated	0 ppm	
7						gray clay				saturated	0 ppm	
8						fine gray sand				saturated	0 ppm	
9						black organic (wood)				saturated		
10												
11												
12												
13												
14												
15												
16												

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 490 River Street	BORING # 26/MW#4 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: Marcor D. ER: Jim LABELLA REPRESENTATIVE: DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/22/00 END DATE 8/22/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			NOTES	
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION				
							LOG	MOISTURE	PID		
1						medium sand and gravel (brown)				flush mount road box dry grout to surface Bentonite seal 3'-1'	
2						black light brown medium-coarse sand				moist 0 ppm quartz sand pack 3'-10'	
3						black gravel				moist 0 ppm 1" PVC solid riser 0'-5'	
4						brown sand				moist	
5						collapse from above				moist	0 ppm
						light brown silty clay				moist	0 ppm
7						light brown sand				saturated 1" PVC Well	0 ppm
8						gray clay				saturated Screen 5'-10'	0 ppm
9						black clay/organic				saturated	0 ppm
10						brown organic (wood)				saturated	0 ppm
11						brown sand/water				saturated	0 ppm
12						No Recovery					0 ppm
13											
14											
15											
16											

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: North of UST
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. 27 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 490 River Street	BORING # 27 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/22/00 END DATE 8/22/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA															
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER	CASING	REMARKS										
DATE	TIME	WATER	CASING	REMARKS												

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S	
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION	LOG	MOISTURE		PID
1						gravel			dry	0 ppm	
2						railroad cinders - black gravel			dry	0 ppm	
3						gray coarse sand and gravel rock fragments			dry	0 ppm	
4						black slag brick			dry		
5						collapse from above			dry/moist	0 ppm	
						black coarse sand			moist	0 ppm	
						medium to fine brown/gray sand			moist/saturated	0 ppm	
7						no recovery					
8									saturated		
9						gray clay - very fine			saturated	0 ppm	
10						gray silty clay			saturated	0 ppm	
11						gray/black organic sand/gravel (brown)			saturated	0 ppm	
12						no recovery					
13											
14											
15											
16											

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 27 STATE STREET, ROCHESTER, NEW YORK	PROJECT Port of Rochester 4650 Lake Avenue	BORING # 28 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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ENVIRONMENTAL ENGINEERING CONSULTANTS	BORING LOCATION	
CONTRACTOR Marcor	GROUND SURFACE ELEVATION	DATUM
DRILLER Jim	START DATE 8/22/00	END DATE 8/22/00
LABELLA REPRESENTATIVE DEP/TMS		

TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						gravel and sub-base		dry	0 ppm	
2						light brown medium/fine sand		dry	0 ppm	
3						dark brown sand/gravel/slag silver/black		moist	0 ppm	
4						brick no recovery		moist		
5						brick fragments/sand (dark brown) cinders		moist	0 ppm	
						light brown silty clay		moist	10 ppm	
7						slag light brown clay		moist	0.5 ppm	
8								moist/saturated	0 ppm	
9						gray/green clay black cinders/slag		saturated/moist	0 ppm	
10						light brown/gray silt/fine sand		saturated/moist	0 ppm	
11						very compacted		saturated/moist	0 ppm	
12										
13						very compacted silt with some clay		saturated	0 ppm	
14						gray -> brown		saturated	0 ppm	
15								saturated	0 ppm	
16								saturated	0 ppm	

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: North end of parks building
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 4650 Lake Avenue	BORING # 29/MW-5 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: Marcor SUPERVISOR: Jim LABELLA REPRESENTATIVE: DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/22/00 END DATE 8/22/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA DATE TIME WATER CASING REMARKS
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DEPTH	SAMPLE				SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)						RECOVERY (INCHES)
1					gravel sub-base		flush mount road box		
					medium brown sand		dry Bentonite seal 0'-1' 0 ppm		
2							dry/moist 0 ppm		
							quartz sand pack 1'-12'		
3					dark brown sand and gravel		dry 0 ppm		
							1" PVC well 2'-12'		
4							dry		
5					dark brown sand/gravel		dry 0 ppm		
					blue gray slag/brick			48 ppm	
					dark brown/black sand and cinders/gravel		dry	0 ppm	
7					light brown silt - compacted				
8							dry		
9					light brown silt		moist 0 ppm		
10							moist 0 ppm		
11							moist 0 ppm		
12									
13									
14									
15									
16									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: near door of parks building Mw at center of building approximately 40' East of maintenance shop
---	--

GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. 30 STATE STREET, ROCHESTER, NEW YORK	PROJECT Port of Rochester 4650 Lake Avenue	BORING # 30 SHEET 1 OF 1 JOB # 99150 CHKD. BY
ENVIRONMENTAL ENGINEERING CONSULTANTS		

CONTRACTOR Marcor	BORING LOCATION	
DRILLER Jim	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE	DEP/TMS	START DATE 8/23/00 END DATE 8/23/00

TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						gravel		dry	0 ppm	
2						medium brown sand		dry	0 ppm	
3						slag/brick/fill/sand		dry	0 ppm	
4								dry		
5						medium brown sand - coal, iron ore chips, some conglomerate, shell fragments		dry	0 ppm	
						slag/brick		dry	0 ppm	
						layer of ash/slag		dry	0 ppm	
7						brown and black silt with fine sand, some slag waste and rock fragments		moist	0 ppm	
8								moist/saturated	0 ppm	
9								saturated/moist	0 ppm	
10								saturated/moist	0 ppm	
11						brown firm silt with clay		saturated/moist	0 ppm	
12								saturated/moist	0 ppm	
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: refusal at 5' - start over approximately 3' west, also refusal, start over approximat 10' north, then 3' west of that Sixth attempt approximately 45' east of park structure
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 4650 Lake Avenue	BORING # 31 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/23/00 END DATE 8/23/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA															
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DATE	TIME	WATER	CASING	REMARKS												

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/ 6"		(FT.)	/RQD(%)	(INCHES)		LOG	MOISTURE	PID	
1						gravel brown silt with fine-medium sand mixed with gravel/rock fragments		dry	0 ppm	
2								dry	0 ppm	
3								dry/moist	no odor	17 ppm
4						gray/brown silt/fine sand		dry/moist	3 ppm	
5						brown medium sand		moist	0 ppm	
6						brown->red/rust fill - slag waste - iron "filling"/stained silt		moist	0 ppm	
7						brown silt/fine sand with some clay		moist	0 ppm	
8								moist/saturated	0 ppm	
9						brown silt/fine sand		saturated/moist	0 ppm	
10								saturated/moist	0 ppm	
11						brown silt/fine sand with some clay		saturated/moist	0 ppm	
12								saturated	0 ppm	
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: downgradient (approx. 12') from AST's
---	--

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 307 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester 4650 Lake Avenue	BORING # 32 SHEET 1 OF JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/23/00 END DATE 8/23/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)						LOG
1						blacktop gravel sub-base		moist		
2						brown medium sand		moist	0 ppm	
3								moist	0 ppm	
4								moist		
5						gray silt/fine sand		saturated	0 ppm	
						mixed fill & slag, silt/sand wih brick frags		saturated	0 ppm	
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: MW @ center of building approx. 40' east of maint. Shop rejected 1st attempt at 6'
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 2 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Between 2 Warehouses	BORING # 33 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE DEP/TMS	START DATE 8/23/00	END DATE 8/23/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)						LOG
1						asphalt/gravel		dry	0 ppm	
2						coarse sand/gravel		dry	0 ppm	
3						blue slag		dry/moist	0 ppm	
4						medium gravel		moist	0 ppm	
5						slag (blue/gray)		moist	0 ppm	
						red gravel		moist	0 ppm	
						brown/black gravel		moist	0 ppm	
7						brown silt		moist	0 ppm	
						gray silt (some clay)		moist/saturated	0 ppm	
8								saturated/moist	0 ppm	
9						red gravel (shell chips)		saturated	0 ppm	
10						gray/brown silt		saturated	0 ppm	
						dark brown organic		saturated	0 ppm	
11						fine gray sand		saturated	0 ppm	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: eastern most point between 2 warehouses
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C.
 300 STATE STREET, ROCHESTER, NEW YORK
 ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
 Port of Rochester
 Between 2 Warehouses

BORING # 34/MW-6
 SHEET 1 OF 1
 JOB # 99150
 CHKD. BY:tms

CONTRACTOR: Marcor
 CLERK: Jim
 LABELLA REPRESENTATIVE: DEP/TMS

BORING LOCATION
 GROUND SURFACE ELEVATION DATUM
 START DATE 8/23/00 END DATE 8/23/00

TYPE OF DRILL RIG: Geo-probe
 AUGER SIZE AND TYPE
 OVERBURDEN SAMPLING METHOD
 ROCK DRILLING METHOD

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)		INSTALLATION			
							LOG	MOISTURE	PID	
1						gravel sub-base			flush mount road box	
						slag			dry Bentonite seal 0.5'-2.5'	
2						medium-coarse sand			moist 33 ppm	
						some odor - gray stained			quartz sand pack 2.5'-5.5'	
3						gravel			moist 67 ppm	
									1" PVC solid riser 0'-3.5'	
4									moist	
5						gravel			moist/saturated	
						red slag black/stained gravel			1" PVC Well 2000 ppm	
						gravel			screen 3.5'-5.5' (high)	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: refusal at 5.5'

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. 100 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Between 2 Warehouses	BORING # 35 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE	DEP/TMS	START DATE 8/23/00 END DATE 8/23/00

TYPE OF DRILL RIG geo-probe	WATER LEVEL DATA				
AUGER SIZE AND TYPE	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD					
ROCK DRILLING METHOD					

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/ 6"		(FT.)	/RQD(%)	(INCHES)		LOG			
1						gravel brown sand (medium - coarse)		0 ppm		
2						gravel/sand		0 ppm		
3						gray silt		400 ppm (last 4" only)		
4						no recovery				
5						gravel/blue slag		100 ppm 140 ppm		
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: refusal at 5.5'
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GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 30 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Between 2 Warehouses	BORING # 36 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/23/00 END DATE 8/23/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S	
	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION	LOG	MOISTURE		PID
1						gravel sub-base			moist	0 ppm	
2						coarse/medium brown sand				0 ppm	
3						rock fragments			moist	0 ppm	
4						no recovery			moist		
5						brown gravel			saturated	0 ppm	
6						black gravel			saturated	0 ppm	
7						coarse sand			saturated	0 ppm	
8											
9											
10											
11											
12											
13											
14											
15											
16											

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: refusal at 5.5'
---	------------------------

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Between 2 Warehouses	BORING # 37 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor	BORING LOCATION	DATUM
DRILLER Jim	GROUND SURFACE ELEVATION	
LABELLA REPRESENTATIVE	DEP/TMS	START DATE 8/23/00 END DATE 8/23/00

TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	MOISTURE	PID	NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
1						black top gravel		moist	0 ppm	
2						brown silt with rock fragments and blue slag		moist	0 ppm	
3								moist/saturated	0 ppm	
4							rust/red silt/sand			
5						red/brown fill, foundation waste, some slag mixed with sand		saturated	0 ppm	
6								saturated	0 ppm	
7						brown silt/fine sand -firm		saturated	0 ppm	
8								saturated		
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: x36 x38 x35 x37 x34 (mw) x33
---	--

GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 307 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester Between 2 Warehouses	BORING # 38 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Marcor DRILLER Jim LABELLA REPRESENTATIVE DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/23/00 END DATE 8/23/00	DATUM
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TYPE OF DRILL RIG geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
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DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	N O T E S
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
	/6"		(FT.)	/RQD(%)	(INCHES)		LOG			
1						black top sub-base		moist	0 ppm	
2						brown-black silt/medium sand with gravel; slag and rock frags		moist	0 ppm	
3								moist/saturated	0 ppm	
4										
5						blue slag fragments rejected		saturated	0.3 ppm	
6								saturated	0.5 ppm	
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester W Side of RR Tracks	BORING #39/MW#7 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: Marcor SER: Jim LABELLA REPRESENTATIVE: DEP/TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/23/00 END DATE 8/23/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA DATE TIME WATER CASING REMARKS
---	---

DEPTH	SAMPLE				SAMPLE DESCRIPTION	EQUIPMENT			NOTES	
	BLOW /6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)		RECOVERY (INCHES)	INSTALLATION	LOG		MOISTURE	PID
1					RR ballast and cinders				flush mount road box	
2					brown/gray silt with fine sand very firm ↓				moist Bentonite seal 3'-5'	
3									moist 0 ppm	
4									moist 0 ppm	
5									1" PVC solid riser 0'-6'	
6					gray silt with some sand ↓				moist quartz sand pack 5'-0 ppm	
7									moist 0 ppm	
8									saturated 0 ppm	
9									saturated 1" PVC Well 0 ppm	
10									screen 6'-12'	
11									saturated 0 ppm	
12								saturated 0 ppm		
13								saturated 0 ppm		
14								saturated 0 ppm		
15								saturated 0 ppm		
16								saturated 0 ppm		

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: west of CSX at approximately Monroe County/RGE Property Line on CSX
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C. 30 TE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester W Side of RR Tracks	BORING # 40 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Zebra Environmental DRILLER Dom Pino LABELLA REPRESENTATIVE TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/30/2000 END DATE 8/30/2000	
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TYPE OF DRILL RIG AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATE</th> <th style="width:10%;">TIME</th> <th style="width:20%;">WATER</th> <th style="width:15%;">CASING</th> <th style="width:40%;">REMARKS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

D E P T H	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT			N O T E S
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)		INSTALLATION	LOG	MOISTURE		PID
1						gravel/topsoil/cinders			dry	no odor no stains
2						yellow/brown silty yellow sand			saturated/moist	
3						light brown silty-clay fine sand			dry	
4						very compacted silt			moist	
5						silt/clay			moist	
6						organic silt			saturated	
7						gray clay light brown and gray silty & clay				
8										
9						gray/brown silt and clay			moist	
10						less compacted with some organics				
11						gray clay with lenses of red silt water encountered gray silt with fine sand			saturated	
12										
13										
14										
15										
16										

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: approximately in line with south light pole - approx 5' in from railroad
---	---

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 37 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester W Side of RR Tracks	BORING # 41 SHEET 1 OF 1 JOB # 99150 CHKD. BY
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CONTRACTOR Zebra Environmental DRILLER Dom Pino LABELLA REPRESENTATIVE TMS	BORING LOCATION GROUND SURFACE ELEVATION START DATE 8/30/2000 END DATE 8/30/2000	DATUM
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TYPE OF DRILL RIG track-mounted geoprobe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA																				
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATE</th> <th style="width:10%;">TIME</th> <th style="width:15%;">WATER</th> <th style="width:15%;">CASING</th> <th style="width:45%;">REMARKS</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT	MOISTURE	PID	NOTES
	BLOW	NO.	DEPTH	N-VALUE	RECOVERY		INSTALLATION			
1						medium sand and gravel		dry		no odor no stains
2						sand and silt (orange)		dry		
3								dry		
4						sand and silt with gray clay		dry		
5						light brown sand and silt with gravel		dry		
6						organic				
7						reddish gray silt/clay				
8						organic				
9						reddish gray silt/clay		saturated		
10						black-green organic				
11						light brown gray silty/clay		moist		
12						gray plant material - organic				
13						reddish brown iron deposit - much dryer		moist		
14						very layered- fine sand				
15						gray silty clay				
16								moist/saturated		

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: in center -> south edge of batting cage, approximately 10' in from tracks
---	--

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LABELLA ASSOCIATES, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Port of Rochester	BORING # 42/MW-8 SHEET 1 OF 1 JOB # 99150 CHKD. BY:tms
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CONTRACTOR: IZebra OPERATOR: Dom Pino LABELLA REPRESENTATIVE: TMS	BORING LOCATION GROUND SURFACE ELEVATION DATUM START DATE 8/30/00 END DATE 8/30/00
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TYPE OF DRILL RIG: Geo-probe AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD ROCK DRILLING METHOD	WATER LEVEL DATA <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT		NOTES
	BLOW / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)		INSTALLATION	LOG	
1						medium sand and gravel fine sand			Bentonite seal 0'-3'
2						sand and silt cinders, no odor			dry 1" PVC solid riser 0'-4'
3						sand and silt			dry quartz sand pack 3-14'
4						some clay			
5						brown compacted clay and silt			dry
6									dry
7						gray clay with some silt lenses of reddish fine sand some silt with sand			moist/saturated
8									moist/saturated
9						silty clay with organics			moist
10						very compact			1" PVC well screen 4'-14'
11						gray silt and clay with organic			saturated
12									saturated
13									saturated
14									saturated
15									saturated
16									saturated

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: approximately in line with N edge of Sewer Treatment Plant, east of RGE. marked location on gravel by tracks, set back from tracks
---	---

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-1
 Job No.: 5505
 Page: 1 OF 1
 Report Date: 5/10/2005

Project: PORT OF ROCHESTER -
 Client: LABELLA ASSOCIATES, PC
 Elevation: 270.5
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/9/2005
 Completed: 5/9/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		3	2					TOPSOIL AND ORGANIC MATTER 0'5"	
				4	10	6	1	0'0"-2'0" FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL	
		50/6				50/6	2	2'0"-2'6" SLAG AND CONCRETE- GRINDING TO 3'- STOPPED MOVED 6' AND RESTARTED	
5		4	4						
				5	6	9	3	4'0"-6'0" FILL MATERIAL C/O SILT, SAND, GRAVEL, SLAG AND FOUNDRY SAND	
		7	15					6'0"-8'0" FILL MATERIAL (FOUNDRY SAND & SLAG)	
				16	16	31	4		
10		12	9					8'0"-10'0" FILL MATERIAL (FOUNDRY SAND & SLAG)	
		3	4						
				50/5		54/11	6	10'0"-11'5" FILL MATERIAL (FOUNDRY SAND & SLAG) (CONCRETE LODGED IN SHOE PIECE) 12'6"	
		16	9						
15		6	8					12'0"-14'0" STIFF GREY DAMP CLAYEY SILT	
				12	14	20	8	14'0"-16'0" STIFF GREY DAMP CLAYEY SILT 16'0"	
20								BORING TERMINATED @ 16'0"	
25									
30									
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-2
 Job No.: 5505
 Page: 1 OF 1
 Report Date: 5/10/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 253.6
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/10/2005
 Completed: 5/10/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		2	1					TOPSOIL AND ORGANIC MATTER 0'6"	
				3	7	4	1	0'0"-2'0" FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL	
		11	12					FOUNDRY SAND AND SLAG	
				11	6	23	2	2'0"-4'0" FILL MATERIAL (SAME)	
5		6	6					4'6"	
				5	4	11	3	4'0"-6'0" MEDIUM GREY GREEN MOIST TO WET CLAYEY	
		3	3					SILT, TRACE VF SAND	
				3	7	6	4	6'0"-8'0" MEDIUM GREY GREEN MOIST TO WET 7'0"	
10		5	2					8'0"-10'0" LOOSE GREY SATURATED M-VF SAND, LITTLE	
				4	4	6	5	M-F GRAVEL AND ORGANIC MATTER	
								(MUDDED BORING FROM 10' TO TERMINATION)	
15									
		4	4						
				5		9	6	15'0"-16'6" LOOSE GREY SATURATED (MORE ORGANICS- WOOD)	
20								18'0"	
		3	3						
				3		6	7	20'0"-21'6" MEDIUM DARK BROWN SATURATED ORGANIC SILT	
								23'0"	
25									
		2	4						
				5		9	8	25'0"-26'6" MEDIUM GREEN BROWN SATURATED SILT, SOME	
								M-F GRAVEL, LITTLE VF SAND, TRACE CLAY	
								(AUGERS STIFFENED @ 27'6")	
30								(VERY SLOW PENETRATION)	
		56/6				56/6		30'0"-30'6" NO RECOVERY	
		50/2				50/2	9	33'6"-33'8" VERY DENSE GREY BLACK ROCK FRAGMENTS	
								AUGER REFUSAL @ 34'4"	
35								BORING TERMINATED @ 34'4"	

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-3
 Job No.: 5505
 Page: 1 OF 3
 Report Date: 5/20/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 253.2
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/19/2005
 Completed: 5/20/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		10	21					TOPSOIL AND ORGANIC MATTER 0'5"	
				12	13	33	1	0'0"-2'0" FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL AND SLAG	
		7	8					2'0"-4'0" FILL MATERIAL C/O SILT, SAND AND GRAVEL, TOPSOIL, SLAG AND FOUNDRY SAND 5'0"	
5		7	10					4'0"-6'0" STIFF GREY BROWN MOIST MOTTLED SILT, LITTLE CLAY 6'0"	
		8	8					6'0"-8'0" FIRM GREY SATURATED M-VF SAND, TRACE SILT	
10				12	10	20	4		
		3	5					10'0"-11'6" FIRM GREY SATURATED (LITTLE M-F GRAVEL)	
15				8		13	5	(MUDDED BORING FROM 15' TO TERMINATION)	
		5	5					15'0"-16'6" LOOSE GREY SATURATED	
				4		9	6		
20									
		4	4					20'0"-21'6" LOOSE GREY SATURATED (MARL NOTED) 21'2"	
				4		8	7	MEDIUM GREY SATURATED SILT, SOME VF SAND 23'0"	
25									
		1	2					25'0"-26'6" MEDIUM GREY SATURATED ORGANIC SILT	
				3		5	8		
30									
		2	1					30'0"-31'6" SOFT GREY SATURATED	
				2		3	9		
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-3
 Job No.: 5505
 Page: 2 OF 3
 Report Date: 5/20/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 253.2
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/19/2005
 Completed: 5/20/2005

Seasonal and climatic changes may alter observed water levels.

35	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		W/R	W/H	2		2	10	35'0"-36'6"	SOFT GREY SATURATED (LESS ORGANICS)
40		W/H	2						
				2		4	11	40'0"-41'6"	SOFT GREY SATURATED (MORE ORGANICS)
45		W/H	W/H						
				W/H		W/H	12	45'0"-46'6"	VERY SOFT GREY SATURATED
50		W3/H	2						
				2		4	13	50'0"-51'6"	SOFT DARK GREY SATURATED (LESS ORGANICS MARL NOTED)
55		W/H	3						
				4		7	14	55'0"-56'6"	MEDIUM DARK GREY SATURATED
60		W/H	2						
				3		5	15	60'0"-61'6"	MEDIUM DARK GREY SATURATED
65		1	3						
				4		7	16	65'0"-66'6"	MEDIUM DARK GREY SATURATED
70									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-3
 Job No.: 5505
 Page: 3 OF 3
 Report Date: 5/20/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 253.2
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/19/2005
 Completed: 5/20/2005

Seasonal and climatic changes may alter observed water levels.

70	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		1	4			8	17	70'0"-71'6"	MEDIUM DARK GREY SATURATED (SANDIER)
				4					
75		2	2			4	18	75'0"-76'6"	SOFT DARK GREY SATURATED
				2					
80		1	2			3	19	80'0"-81'6"	SOFT DARK GREY SATURATED
				1					
85									(AUGERED TO 100' REMAINED SOFT)
90									
95									
100									100'0"
									BORING TERMINATED @ 100'0"
105									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-4
 Job No.: 5505
 Page: 1 OF 2
 Report Date: 5/6/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 254.7
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/6/2005
 Completed: 5/6/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		7	7			14	1	0'0"-2'0"	TOPSOIL AND ORGANIC MATTER 0'5"
		13	13	7	7	23	2	2'0"-4'0"	FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL LITTLE ASPHALT AND SLAG
5		7	7	10	9			4'0"-6'0"	FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL AND SLAG
				4	4	11	3	6'0"-8'0"	FILL MATERIAL C/O MOIST FOUNDRY SAND
		4	10			30	4	8'0"-10'0"	FILL MATERIAL C/O FOUNDRY SAND 7'8"
10		15	10	20	20	25	5	10'0"-12'0"	FILL MATERIAL C/O SATURATED SLAG
		21	12	21	18	33	6	12'0"-14'0"	FILL MATERIAL C/O SATURATED SLAG
		7	10	9	4	19	7	14'0"-16'0"	FILL MATERIAL C/O SATURATED SLAG
15		3	3			7	8	16'0"-18'0"	FILL MATERIAL C/O SATURATED SLAG 15'0"
		6	5	4	6	10	9	18'0"-20'0"	MEDIUM GREY SATURATED SILT, TRACE ORGANIC NODULES 15'8"
				5	5			20'0"-22'0"	MEDIUM BLACK MOIST PEAT LIKE MATERIAL
20									(MUDDED BORING FROM 18' TO TERMINATION)
		2	3	3	4	6	10	22'0"-24'0"	MEDIUM BLACK GREY WET TO SATURATED INTERBEDDED SILT AND PEAT LIKE MATERIAL
								24'0"-26'0"	MEDIUM GREY SATURATED 24'0"
25		2	4			7	11	26'0"-28'0"	MEDIUM DARK GREY WET ORGANIC SILT, TRACE CLAY
				3	4				
30									
		2	2			4	12	30'0"-31'6"	MEDIUM GREY SATURATED SILT, LITTLE CLAY, TRACE VF SAND SEAMS (NO ORGANICS)
				2					
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-4
 Job No.: 5505
 Page: 2 OF 2
 Report Date: 5/6/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 254.7
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/6/2005
 Completed: 5/6/2005

Seasonal and climatic changes may alter observed water levels.

35	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		7	8						
				9		17	13	35'0"-36'6"	
								FIRM RED WET SILT, SOME C-F GRAVEL, WEATHERED ROCK AND VF SAND	
40								AUGER REFUSAL @ 39'2"	
								BORING TERMINATED @ 39'2"	
45									
50									
55									
60									
65									
70									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-5
 Job No.: 5505
 Page: 1 OF 2
 Report Date: 5/11/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 252.1
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/11/2005
 Completed: 5/11/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		7	19					TOPSOIL AND ORGANIC MATTER 0'7"	
				23	28	42	1	0'0"-2'0"	
		13	14					FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL BRICK, WOOD AND SLAG	
				15	19	29	2	2'0"-4'0"	
5		6	4					FILL MATERIAL (SAME) 3'0" COMPACT BROWN MOIST M-VF SAND 3'6"	
				4	4	8	3	4'0"-6'0"	
		2	4					LOOSE GREY SATURATED M-VF SAND, TRACE ORGANICS (WOOD)	
				7	4	11	4	6'0"-8'0"	
		12	4					FIRM GREY SATURATED	
10				18	29	22	5	8'0"-10'0"	
								FIRM GREY SATURATED (LITTLE C-F GRAVEL)	
								12'0"	
								(MUDDED BORING FROM 15' TO TERMINATION)	
15		2	7					13'6"-15'0"	
				11		18	6	FIRM GREY SATURATED C-F SAND AND GRAVEL (LITTLE SILT LAYERED)	
								17'0"	
20									
		W/H	2					20'0"-21'6"	
				2		4	7	SOFT GREY SATURATED CLAYEY SILT, LITTLE ORGANICS	
25									
		W/H	2					25'0"-26'6"	
				2		4	8	SOFT GREY WET	
30									
		2	3					30'0"-31'6"	
				4		7	9	MEDIUM GREY WET	
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt. _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-5
 Job No.: 5505
 Page: 2 OF 2
 Report Date: 5/11/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 252.1
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/11/2005
 Completed: 5/11/2005

Seasonal and climatic changes may alter observed water levels.

C	Blows on Sampler				N	Sample		Soil and Rock Information
	0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
35	2	2						
			2		4	10	35'0"-36'6"	SOFT GREY WET (TRACE ORGANICS)
40								
	W/H	2			4	11	40'0"-41'6"	SOFT GREY WET TO SATURATED (TRACE ORGANICS)
45								
	1	1			2	12	45'0"-46'6"	VERY SOFT GREY SATURATED (TRACE MARL)
50								
	1	2			4	13	50'0"-51'6"	SOFT GREY WET (WOOD NOTED AND SLIGHTLY MORE CLAY)
55								
	3	3			8	14	55'0"-56'6"	MEDIUM GREY WET TO SATURATED (MORE ORGANICS— TRACE WEATHERED SHALE) (VERY SLOW PENERATION FROM 58')
60								
	82/6				82/6	15	60'0"-60'6"	VERY DENSE RED WEATHERED SHALE 60'6"
								BORING TERMINATED @ 60'6"
65								
70								

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B05-7
 Job No.: 5505
 Page: 1 OF 1
 Report Date: 5/10/2005

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC
 Elevation: 272.7
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 5/9/2005
 Completed: 5/9/2005

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		14	10			28	1	0'0"-1'6"	TOPSOIL AND ORGANIC MATTER 0'5"
				18	50/0				FILL MATERIAL C/O MOIST SILT, SAND AND GRAVEL AND CRUSHED STONE
		50/4				50/4	2	3'0"-3'4"	FILL MATERIAL CONCRETE 4'0"
5		14	13			28	3	5'0"-7'0"	COMPACT BROWN MOIST SILT AND VF SAND
				15	18				
		9	13			27	4	8'0"-10'0"	COMPACT BROWN MOIST SILT, TRACE VF SAND
10				14	14				
									12'0"
15		7	8			17	5	15'0"-16'6"	STIFF GREY MOIST SILT, LITTLE CLAY 16'6"
				9					
20									BORING TERMINATED @ 16'6"
									NOTE: ADDITIONAL 1'6" DRILLED AT THIS LOCATION- HEAVY FILLS MOVED BORING 3'
25									
30									
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt. _____ Ea. Blow

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-1**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-May-05 END DATE 09-May-05

TYPE OF DRILL RIG:		WATER LEVEL DATA	
CME Model 75 Truck-mounted Rotary Drill Rig		DATE	TIME
AUGER SIZE AND TYPE	3.25-Inch ID	WATER	CASING
OVERBURDEN SAMPLING METHOD	2" x 2' Split-spoon w/140# Hammer		REMARKS
ROCK DRILLING METHOD	Not Applicable		

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	3	S-1	0'-2'	6	15"	0.0' FILL MATERIAL Brown Clayey SILT, little(-) f Sand, trace(-) mf angular Gravel, trace organics in top 4" (roots, root traces, humus, etc.), moist, no odors.	0.0	
	2							
	4							
2	10	S-2	2'-4'	>50	4"	1.2' Brown to orange-brown cmf GRAVEL (slag), some cmf Sand (slag), slightly moist, no odors.	0.2	
	50/6"							
3		S-3	4'-6'	10	21"	2.0' Concrete fragments.	0.0	
4	4	S-4	6'-8'	31	7"	2.2' Brown to orange-brown cmf GRAVEL (slag), some cmf Sand (slag), moist, no odors.	0.0	
	4							
5	4	S-5	8'-10'	15	4"	4.0' Brown SILT, little(+) mf(+) Sand, trace mf angular to subangular Gravel, moist, no odors.	0.0	
	6							
6	6	S-6	10'-12'	4	6"	5.2' Brown SILT, some(-) mf angular to subangular Gravel, little(+) mf(+) Sand, moist, no odors.	0.0	
	7							
7	15	S-7	12'-14'	22	18"	6.0' As above, but damp, no odors..	0.0	
	16							
8	16	S-8	14'-16'	20	20"	8.0' As above, but wet, no odors..	0.0	
	12							
9	9	S-7	12'-14'	22	18"	10.0' As above, saturated, no odors.	0.0	
	6							
10	4	S-6	10'-12'	4	6"	10.3' Black to dark brownish-black cm(+)f angular to subrounded GRAVEL, some cmf Sand, wet, no odors.	0.0	
	3							
11	4	S-7	12'-14'	22	18"	12.0' As above, with concrete fragments, wet, no odors.	0.0	
	50/3"							
12	16	S-7	12'-14'	22	18"	12.5' Gray Clayey SILT, little(-) f Sand, damp to wet, stratified, no odors.	0.0	
	9							
13	9	S-7	12'-14'	22	18"	14.0' As above	0.0	
	13							
14	18	S-8	14'-16'	20	20"		0.0	
	6							
15	8	S-8	14'-16'	20	20"		0.0	
	12							
16	14							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
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PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-2**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-May-05 END DATE 10-May-05

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		3.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	2	S-1	0'-2'	4	13"	0.0' Dark brown f SAND, some(-) Silt, trace(-) f subangular Gravel, organics (roots, root traces, humus, etc.), slightly moist, no odors.	0.0	
	1							
	3							
2	7	S-2	2'-4'	23	13"	0.4' Dark brown m ⁽⁺⁾ f SAND (foundry sand), little(-) mf subrounded to angular Gravel (slag & stone), moist, no odors.	0.2	
	11							
	12							
3	11	S-3	4'-6'	11	16"	2.0' As above, moist, no odors.	0.0	
	6							
	6							
4	6	S-4	6'-8'	10	18"	2.3' Very dark brown to grayish-brown cmf ⁽⁺⁾ SAND, some(+) cmf angular to subrounded Gravel, trace Silt, moist to damp, no odors.	0.0	
	6							
	6							
5	6	S-4	6'-8'	10	18"	4.0' As above, damp, no odors.	0.0	
	6							
	6							
6	4	S-4	6'-8'	10	18"	4.3' Gray f SAND, trace Silt, damp, no odors.. ... Grading to ...	0.0	
	3							
	3							
7	3	S-4	6'-8'	10	18"	6.0' Gray SILT & CLAY, little(+) f Sand, massive, wet to saturated, no odors.	0.0	
	7							
	7							
8	6	S-4	6'-8'	10	18"	7.0' Gray cm SAND, wet to saturated, no odors.	0.0	
	6							
	6							
9		S-4	6'-8'	10	18"	7.1' Dark brown PEAT, little Silt, trace f Sand, saturated, no odors.	0.0	
10		S-4	6'-8'	10	18"	7.2' Gray cm ⁽⁺⁾ f SAND, saturated, no odors.	0.0	
11		S-4	6'-8'	10	18"			
12		S-4	6'-8'	10	18"			
13		S-4	6'-8'	10	18"			
14		S-4	6'-8'	10	18"			
15		S-4	6'-8'	10	18"			
16		S-4	6'-8'	10	18"			

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

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PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-3**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 19-May-05 END DATE 19-May-05

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig AUGER SIZE AND TYPE 3.25-Inch ID OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD Not Applicable	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	10	S-1	0' - 2'	33	8"	0.0' Dark brown cmf(+) SAND, little mf subrounded Gravel, trace Silt, organic material present (roots, root traces, humus, etc.), moist, no odors.	0.0	
	21							
	12							
2	13	S-2	2' - 4'	23	14"	0.3' Gray cmf SAND, little f angular to subrounded Gravel (Includes slag and cinders), moist, no odors.	0.0	
	7							
3	8	S-3	4' - 6'	18	21"	0.6' Dark brown m SAND (Foundry sand), little mf andgual to subrounded Gravel (slag), moist, no odors.	0.0	
	15							
	16							
4	7	S-4	6' - 8'	20	11"	2.0' As above, but damp to wet, no odors.	0.0	
	10							
5	8	S-3	4' - 6'	18	21"	4.0' Dark gray SILT, little(-) f SAND, stratified, wet to damp, no odors.	0.0	
	7							
6	8	S-4	6' - 8'	20	11"	5.5' Gray alternating varves of Clayey SILT and CLAY, damp to saturated @ ~6.0-ft., no odors.	0.0	
	7							
7	8	S-4	6' - 8'	20	11"	6.3' Gray mf(*) SAND, saturated, no odors.	0.0	
	12							
8	10							
9								
10								
11								
12								
13								
14								
15								
16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-4**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 06-May-05 END DATE 06-May-05

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 3.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	7	S-1	0'-2'	14	9"	FILL MATERIAL		0.0
	7					0.0' Brown SILT, little f Sand, trace mf angular Gravel, trace organics (roots, root traces, humus, etc.), moist, no odors.		
	7					0.2' Brown cmf SAND, little mf(*) angular to subrounded Gravel (Slag & Asphalt), moist to damp, no odors.		
	7					2.0' As above.		
3	13	S-2	2'-4'	23	9"	2.3' Black cmf SAND, little s angular to subrounded Gravel (Slag), moist no odors.	0.2	
	13					2.6' Brown cmf SAND, little mf(*) angular to subrounded Gravel (Slag & Asphalt), moist to damp, no odors.		
	10					4.0' Dark brown m SAND (foundry sand), trace m subrounded Gravel, damp to wet, no odors.		
4	9	S-3	4'-6'	11	13"	6.0' As above, but saturated.	0.0	
	7					6.6' Grayish-black mf angular GRAVEL (slag), some(-) cm Sand, saturated, no odors.		
	7					8.0' Bluish-gray cm(*)f angular to subangular GRAVEL, little cmf Sand, saturated, no odors.		
	4					10.0' As above, saturated, no odors.		
7	10	S-4	6'-8'	30	9"	10.0' As above, saturated, no odors.	0.0	
	20					12.0' As above, saturated, no odors.		
	20					14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.		
	15					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
9	10	S-5	8'-10'	25	5"	14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.	0.0	
	15					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
	22					14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.		
	21					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
11	12	S-6	10'-12'	33	5"	14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.	0.0	
	21					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
	18					14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.		
13	7	S-7	12'-14'	19	2"	14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.	0.0	
	10					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
	9					14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.		
15	4	S-8	14'-16'	7	14"	14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.	0.0	
	3					14.5' Gray Clayey SILT, stratified, marsh gas odor.		
	4					14.0' Alternating layers of dark brown SILT, some peat with Gray Clayey SILT, saturated, no odors.		
	6					14.5' Gray Clayey SILT, stratified, marsh gas odor.		

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C.
 300 STATE STREET ROCHESTER, NEW YORK
 ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
 Port of Rochester
 2005 Geotechnical Borings
 Rochester, New York

BORING # **B05-4**
 SHEET 2 OF 2
 JOB # 205182
 CHKD. BY

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)			
17	6	S-9	16'-18'	10	20"	16.0' Brown Silty Peat.	0.0	
	5					16.2' Brown to grayish-brown SILT, trace(+) cmf Sand, trace(-) f angular Gravel, very soft & plastic, saturated, no odors.	0.0	
	5							
	5							
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-5**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-May-05 END DATE 09-May-05

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		3.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	7	S-1	0'-2'	42	20"	0.0' Brown f SAND and SILT, trace(+) mf ⁽⁺⁾ angular to subrounded Gravel, organics (roots, root traces, humus, etc.), slightly moist, no odors.	0.0	
	19							
	23							
2	28	S-2	2'-4'	29	13"	0.3' Brown to grayish-brown cmf SAND, little cmf ⁽⁺⁾ angular to subangular Gravel, (concrete, slag and asphalt), slightly moist, no odors.	0.2	
	23							
	14							
3	15	S-3	4'-6'	8	20"	2.0' Tan mf ⁽⁺⁾ SAND, trace f Gravel, trace(-) Silt, moist to damp, no odors.	0.0	
	19							
	6							
4	4	S-4	6'-8'	11	12"	2.8' Dark grayish-brown mf SAND, trace(-) f angular to subrounded Gravel, (slag) trace(-) Silt, damp to wet, no odors.	0.0	
	4							
	4							
5	2	S-5	8'-10'	22	19"	4.0' Gray to dark gray m ⁽⁺⁾ f SAND, wet, no odors with 1" thick interbed of dark brown SILT and f SAND @ 4.7-ft. BGS, saturated, no odors.	0.0	
	4							
	4							
6	7	S-6	10'-12'	20	18"	6.0' Gray mf SAND, trace(+) Clayey SILT, saturated, no odors.	0.0	
	4							
	7							
7	4					8.0' As above, saturated, no odors..	0.0	
	12							
	4							
8	18					8.9' Gray mf SAND, trace(+) Clayey SILT, little(+) mf rounded to subrounded Gravel, saturated, no odors.	0.0	
	29							
	21							
9	14					10.0' As above, saturated, no odors..	0.0	
	6							
	7							
10						11.2' Reddish-gray to gray c ⁽⁺⁾ mf rounded to subrounded GRAVEL, saturated very slight naphthalene odor.		
11								
12								
13								
14								
15								
16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA ASSOCIATES, P.C.
 300 STATE STREET ROCHESTER, NEW YORK
 ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
 Port of Rochester
 2005 Geotechnical Borings
 Rochester, New York

BORING # B05-5
 SHEET 2 OF 2
 JOB # 205182
 CHKD. BY

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (INCHES)			
17	6	S-9	16'-18'	10	20"	16.0' Brown Silty Peat.	0.0	
	5					16.2' Brown to grayish-brown SILT, trace(+) cmf Sand, trace(-) f angular	0.0	
	5					Gravel, very soft & plastic, saturated, no odors.		
	5							
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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PROJECT
Port of Rochester
2005 Geotechnical Borings
Rochester, New York

BORING **B05-7**
SHEET 1 OF 2
JOB # 205182
CHKD. BY:

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Sirigusa & Steve Kahn GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-May-05 END DATE 09-May-05

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 3.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
1	7	S-1	0'-2'	17	7"	0.0' FILL MATERIAL Brown cmf ⁽⁺⁾ SAND, some cmf angular to subrounded Gravel, slightly moist, very slight weathered petroleum odor.	0.1	
	8							
	9							
2	7	S-2	2'-4'	>50	3'	2.0' Gray concrete fragments.	0.0	
	50/4"							
3		S-3	4'-6'	29	20	4.0' ALLUVIAL MATERIAL Grayish-brown to brown SILT, little f SAND, stratified, moist, no odors.	0.0	
	13							
	14							
	15							
	18							
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 31-Aug-06 END DATE 31-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
76						FILL MATERIAL	0.0	
19	S-1	0' - 2'	32	1.5-ft.	0.0'	Asphalt	0.0	
13					0.7'	Gray cmf SAND and mf angular GRAVEL, moist, no odors.	0.0	
14					1.3'	Brown mf ⁽⁺⁾ SAND, moist, no odors.		
8	S-2	2' - 4'	11	1.7-ft.	2.0'	As above, moist, no odors.	0.0	
6					.... Grading To ...	0.0		
5					Brown f SAND, moist to damp, no odors.	0.0		
4					FILL MATERIAL CONTAINING SLAG			
5	S-3	4' - 6'	11	1.0-ft.	3.4'	Dark gray c ⁽⁺⁾ mf SAND, little f angular to subangular Gravel (Incl. Cinders, Slag & trace Ash), damp, no odors.	0.0	
4					Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits			
7					Brown cm ⁽⁺⁾ f SAND, trace(-) Silt & Clay, wet, no odors.			
7	S-4	6' - 8'	12	1.6-ft.	6.0'	Gray cm ⁽⁺⁾ f SAND, trace(-) Silt & Clay, wet, no odors.	0.0	
3					.... Grading To ...	0.0		
6					Gray mf SAND w/ 1/2-in. layer of Peat @ 7.2-ft. BGS, wet to saturated @ 7.0-ft.	0.0		
6								
4	S-5	8' - 10'	39	0.9-ft.	8.0'	As above, saturated, no odors.	0.0	
19					8.2'	Gray to reddish-brown cmf subrounded GRAVEL and cmf SAND, saturated, no odors.		
20								
20	S-6	10' - 12'	33	1.2-ft.	10.0'	As above, saturated, no odors.	0.0	
16					10.4'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0	
17								
16	S-7	12' - 14'	56	1.5-ft.	12.0'	As above w/ interval of Gray cm ⁽⁺⁾ f SAND, some mf subrounded to subangular Gravel from 12.6 to 13.2-ft. BGS, saturated, no odors.	0.0	
24								
32								
26	S-8	14' - 16'	41	1.4-ft.	14.0'	As above, saturated, no odors.	0.0	
14								
20								
21								
19					15.1'	Gray mf SAND, little mf subrounded to subangular Gravel, saturated, no odors.	0.0	

Bottom of Boring @ 16.0-ft. BGS

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 3.7 & 4.0-ft. BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BH-2**
SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	15	S-1	0' - 2'	20	1.1-ft.	0.0'	FILL MATERIAL Asphalt	0.0	
	13								
	7								
2	9	S-2	2' - 4'	19	0.2-ft.	0.8'	Deep brown cmf SAND, little f subangular Gravel, moist, no odors.	0.0	
	10								
3	11	S-3	4' - 6'	4	1.0-ft.	4.0'	As above with piece of steel, moist, no odors.	0.0	
	8								
4	5	S-4	6' - 8'	16	1.3-ft.	6.0'	Brownish-gray mf SAND with Wood (Slight creosote odors - Apparent RR tie) between 4.2 & 4.6-ft. BGS, damp to wet, no odors.	0.0	
	2								
5	1	S-5	8' - 10'	18	1.2-ft.	8.0'	As above with Wood fragments @ 6.4-ft. BGS, saturated, no odors.	0.0	
	3								
6	4	S-6	10' - 12'	22	0.9-ft.	10.0'	Gray c ⁽⁺⁾ mf SAND, some cmf subrounded to subangular Gravel, saturated, no odors.	0.0	
	3								
7	8	S-7	12' - 14'	41	1.1-ft.	12.0'	Gray mf subrounded to angular GRAVEL, some cmf ⁽⁺⁾ Sand, saturated, very slight weathered petroleum odor.	0.2	
	9								
8	9	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray f SAND, saturated, very slight weathered petroleum odor.	0.0	
	14								
9	14	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray mf angular to subangular GRAVEL, some(+) mf SAND, saturated, very slight weathered petroleum odor.	0.0	
	4								
10	8	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray mf SAND, saturated, very slight weathered petroleum odor.	0.0	
	14								
11	17	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray mf ⁽⁺⁾ SAND, saturated, very slight weathered petroleum odor.	0.0	
	8								
12	19	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray f SAND, little cmf subrounded to subangular Gravel, saturated, no odors.	0.0	
	14								
13	22	S-7	12' - 14'	41	1.1-ft.	12.3'	Gray mf SAND, trace f subrounded to subangular Gravel, saturated, no odors.	0.0	
	17								
14							Bottom of Boring @ 14.0-ft. BGS		
15									
16									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 6.7-ft. BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BH-3**
SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 31-Aug-06 END DATE 31-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	45	S-1	0' - 2'	31	1.2-ft.	0.0'	FILL MATERIAL Asphalt Gray mf angular GRAVEL and cmf SAND, moist, no odors.	0.0	
	20					0.7'			
	11								
2	10	S-2	2' - 4'	21	0.2-ft.	2.0'	FILL MATERIAL CONTAINING SLAG Brown and black cmf SAND, little cmf angular to subangular Gravel (Incl. Cinders and Slag), moist, no odors.	0.0	
	8								
3	11	S-3	4' - 6'	10	0.3-ft.	4.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray mf SAND, little c ^(*) mf Gravel, wet, no odors.	0.0	
	10								
	6								
4	5	S-4	6' - 8'	22	1.7-ft.	6.0'	Gray mf SAND, wet to saturated @ ~7.2-ft., no odors.	0.0	
	9								
	13								
5	12	S-5	8' - 10'	35	0.3-ft.	8.0'	As above, saturated, no odors.	0.0	
	7								
	15								
6	20	S-6	10' - 12'	21	1.2-ft.	10.0'	As above, saturated, no odors.	0.0	
	22								
	7								
7	17	S-7	12' - 14'	42	1.5-ft.	12.0'	Gray mf SAND, some(+) cmf subrounded to subangular Gravel, saturated, no odors.	0.0	
	22								
	20								
8	18	S-8	14' - 16'	36	1.7-ft.	13.3'	Gray mf SAND, saturated, no odors.	0.0	
	11								
	20								
9	16					14.0'	Gray mf SAND, some cmf subrounded to angular Gravel, saturated, no odors.	0.0	
	12					15.3'			
16							Gray cmf SAND, some cmf subrounded to angular Gravel, saturated, no odors.	0.0	

Bottom of Boring @ 16.0-ft. BGS

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 2.2 & 4.0-ft. BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	39	S-1	0' - 2'	24	1.5-ft.	0.0'	FILL MATERIAL Asphalt	0.0	
	14					0.4'		0.0	
	10					1.0'		0.0	
2	7	S-2	2' - 4'	13	1.5-ft.	1.3'	Silt & Clay, moist to damp, no odors. Black cm ⁽⁺⁾ f SAND (Foundry Sand), trace f subrounded to subangular Gravel, moist to damp, no odors.	0.0	
	7					0.0			
3	7	S-3	4' - 6'	22	0.8-ft.	2.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown mf ⁽⁺⁾ SAND, trace(+) mf subrounded Gravel, damp, no odors.	0.0	
	16					4.0'		WOOD (No saw marks or creosote odor)	
	6					4.7'				Gray mf SAND, wet, no odors.
4	6	S-4	6' - 8'	51	1.6-ft.	6.0'	As above, wet, no odors. WOOD (No saw marks or creosote odor)	0.0	
	5					6.3'		Gray mf SAND, wet, no odors.	
	31					7.5'				0.0
5	20	S-5	8' - 10'	18	1.0-ft.	8.0'	Gray mf ⁽⁺⁾ SAND, little cmf subrounded Gravel, saturated, no odors. Grading To ...	0.0	
	19					Gray m ⁽⁺⁾ f SAND, saturated, no odors.			
	6					10.0'		0.0	
6	2	S-6	10' - 12'	13	0.8-ft.	10.0'	As above, saturated, no odors. Grading To ...	0.0	
	3					Gray mf ⁽⁺⁾ SAND, saturated, no odors..			
	10					12.0'		0.0	
7	16	S-7	12' - 14'	35	1.3-ft.	12.0'	Gray & maroon cmf subrounded to subangular GRAVEL, some(+) cmf Sand, saturated, no odors.	0.0	
	19					12.6'		0.0	
	25					14.0'		No Recovery		Not Available
8	13	S-8	14' - 16'	26	0.0-ft.	14.0'	No Recovery	Not Available	
	7								
9	2								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 3.5 & 4.0-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BH-4**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	1	S-9	16' - 18'	2	0.9-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray SILT & CLAY to CLAY & SILT (Incl. ~ 5% Peat), saturated, no odors	0.0	
18	2								
19	1								
19	1	S-10	18' - 20'	3	1.0-ft.	18.0'	As above with ~3% Peat, saturated, no odors.	0.0	
20	2								
21	2								
20	Bottom of Boring @ 20.0-ft. BGS								
21									
22									
23									
24									
25	7								
26	8								
27	8								
28	8								
29	13								
30	14								
31	2								
32	8								
33	12								
34	16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	37	S-1	0' - 2'	25	1.5-ft.	0.0'	FILL MATERIAL	0.0	
0.3'	14					Asphalt	1.2		
0.3'	11					Gray cmf angular GRAVEL, some(-) cmf Sand, moist, no odors.			
0.9'	6	S-2	2' - 4'	12	1.8-ft.	0.9'	FILL MATERIAL CONTAINING SLAG	0.0	
0.9'	5					Brown, gray and white cmf SAND, little(+) mf angular to subrounded Gravel, trace Silt (Incl. Ash w/ Cinders and Slag), moist, no odors.			
2.0'	7					FILL MATERIAL	0.0		
3.5'	8	S-3	4' - 6'	4	1.2-ft.	2.0'	Brown mf ⁽⁺⁾ to f SAND, moist, no odors.		
3.5'	2					FILL MATERIAL CONTAINING SLAG	0.0		
4.0'	2					Black cmf SAND, little f angular Gravel (Incl. Slag w. trace Cinders and Ash), moist to damp, no odors.			
4.2'	5	S-4	6' - 8'	15	1.1-ft.	4.0'	As above, damp, no odors.		
4.2'	6					FILL MATERIAL	0.0		
6.0'	9					Brown mf ⁽⁺⁾ SAND, damp, no odors.			
6.0'	17	S-5	8' - 10'	20	1.3-ft.	6.0' Grading To ...		
6.0'	5					Gray mf ⁽⁺⁾ SAND w. Wood (creosote odor) from 6.3 to 6.45-ft., wet to saturated @ ~6.5-ft., no odors.	0.0		
8.0'	7					Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0		
10.0'	13	S-6	10' - 12'	34	1.4-ft.	8.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.		
10.0'	14					As above, saturated, no odors.	0.0		
11.3'	15					.... Grading To ...		
12.0'	16	S-7	12' - 14'	13	1.0-ft.	11.3'	Gray f SAND, saturated, no odors.	0.0	
12.0'	18					Gray mf SAND and mf subrounded to subangular GRAVEL, saturated, no odors.			
12.0'	23					Gray mf SAND, trace(-) m subrounded Gravel, saturated, no odors.	0.0		
14.0'	7	S-8	14' - 16'	24	1.1-ft.	12.0'	Gray mf SAND, little(+) cmf angular to subrounded Gravel, saturated, no odors.	0.0	
14.0'	6					.... Grading To ...		
14.0'	4					Gray cm ⁽⁺⁾ f SAND, saturated, no odors.			
14.0'	8	Bottom of Boring @ 16.0-ft. BGS							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 7.1 & 8.0-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 31-Aug-06 END DATE 31-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	30	S-1	0' - 2'	24	1.5-ft.	0.0'	Asphalt	0.0	
	14					0.5'		0.0	
	10								
2	7	S-2	2' - 4'	12	1.8-ft.	1.0'	Black to brown cmf SAND, trace(+) f angular Gravel (Incl. Slag & Cinders), moist, no odors.	0.0	
	5								
	6								
3	6	S-3	4' - 6'	12	0.3-ft.	1.4'	Brown mf(+) SAND, moist, no odors.	0.0	
	6								
	8								
4	4	S-4	6' - 8'	7	0.8-ft.	2.0'	Brown f SAND, trace(-) to trace Silt, moist to wet, no odors.	0.0	
	5								
	7								
5	4	S-5	8' - 10'	35	0.9-ft.	4.0'	Gray f SAND, trace Silt, saturated, no odors.	0.0	
	7								
	4								
6	3	S-6	10' - 12'	26	1.2-ft.	6.0'	Gray mf(+) SAND, trace Silt (Incl. Wood (No noticeable creosote odor. saturated, no odors.	0.0	
	3								
	4								
7	10	S-7	12' - 14'	32	1.1-ft.	8.0'	Gray mf SAND, some(+) mf subangular to subrounded Gravel, saturated, no odors.	0.0	
	10								
	18								
8	17	S-8	14' - 16'	13	0.4-ft.	10.0'	Gray mf(+) SAND with interval of Gray mf SAND and mf subrounded Gravel from 10.8 to 10.9-ft. BGS, saturated, no odors.	0.0	
	16								
	6								
9	11	S-7	12' - 14'	32	1.1-ft.	12.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
	15								
	10								
10	7	S-7	12' - 14'	32	1.1-ft.	12.8'	Gray cmf SAND some(+) cmf subrounded Gravel, saturated, no odors.	0.0	
	14								
	18								
11	15	S-8	14' - 16'	13	0.4-ft.	14.0'	As above, saturated, no odors.	0.0	
	10								
	7								
12	9	S-8	14' - 16'	13	0.4-ft.	14.2'	Gray SILT & CLAY (Incl. ~30% Peat), saturated, no odors.	0.0	
	4								
	2								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 4.3 & 6.0-ft. BGS
 Monitoring well MW-BH6 installed within borehole BH-6.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BH-6**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	1	S-9	16' - 18'	2	0.4-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray SILT & CLAY (Incl. ~15% Peat), saturated, no odors.	0.0	
18	1								
19	2								
18	1	S-10	18' - 20'	3	0.8-ft.	18.0'	Gray SILT & CLAY (Incl. ~10% Peat), saturated, no odors.	0.0	
19	1								
20	2								
20	1						Bottom of Boring @ 20.0-ft. BGS		
21									
22									
23									
24									
25	7								
26	8								
27	8								
28	8								
29	13								
30	14								
31	2								
	8								
	12								
	16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	37	S-1	0' - 2'	36	1.4-ft.	0.0'	Fill Material Asphalt	0.0	
	14					0.5'		0.0	
	22					1.0'		0.0	
2	12	S-2	2' - 4'	23	1.5-ft.	2.0'	Fill Material Containing Slag Brown to tan mf SAND, trace(+) mf angular Gravel (Incl. blue-green Slag), moist, no odors.	0.0	
	7					2.8'		0.0	
	13								
3	10	S-3	4' - 6'	12	0.9-ft.	4.0'	Fill Material Dark brown to black cmf(+) SAND, little mf(+) angular to subangular Gravel (Incl. Cinders & Slag), moist to damp, very slight weathered petroleum odor.	0.0	
	6								
	2								
4	3	S-4	6' - 8'	21	1.3-ft.	4.6'	Fill Material Containing Slag Gray Clayey SILT, damp, no odors.	0.0	
	9					6.0'		0.0	
	12								
5	12	S-5	8' - 10'	54	1.0-ft.	6.5'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray mf SAND, saturated, no odors.	0.0	
	23					8.0'		0.0	
	30								
6	24	S-6	10' - 12'	16	1.2-ft.	10.0' Grading To ... Gray cm(+)f SAND, saturated, no odors.	0.0	
	7								
	9								
7	6	S-7	12' - 14'	47	1.0-ft.	12.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
	11								
	27								
8	20	S-8	14' - 16'	46	0.3-ft.	14.0'	Gray mf(+) SAND, some(-) c subrounded to subangular Gravel, saturated, no odors. As above, saturated, no odors.	0.0	
	17								
	10								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 6.5-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	2	S-1	0' - 2'	6	1.6-ft.	0.0'	Topsoil	0.0	
	2						Dark brown f SAND, trace f angular to subrounded Gravel, trace(-) Silt, organics present (roots, root traces, humus, etc.), moist, no odors.	0.0	
	4								
2	17	S-2	2' - 4'	29	1.3-ft.	0.5'	Fill Material	0.0	
	11						Deep brown mf(+) SAND, trace f subangular Gravel (Mostly Foundry Sand), moist, no odors.	0.0	
3	13	S-2	2' - 4'	29	1.3-ft.	1.2'	Asphalt.	0.0	
	16								
4	14	S-3	4' - 6'	14	0.8-ft.	2.0'	Fill Material Containing Slag	0.0	
	9						Gray, blue-green and brown cmf SAND, some mf angular Gravel (includes Cinders, Ash & Slag), moist, no odors.	0.0	
5	7	S-3	4' - 6'	14	0.8-ft.	2.4'	Fill Material	0.0	
	7						Gray cmf angular to subangular GRAVEL, some(-) cmf Sand (Mostly Concrete), moist, no odors.	0.0	
6	9	S-4	6' - 8'	15	1.4-ft.	3.2'	Brown and gray cmf(+) SAND, little(+) mf angular Gravel (incl. Concrete & Cinders) moist, no odors.	0.0	
	7								
7	5	S-4	6' - 8'	15	1.4-ft.	3.2'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0	
	10						Gray mf(+) SAND, saturated, no odors.	0.0	
8	4	S-5	8' - 10'	9	0.0-ft.	4.3'	Gray f-vf SAND and SILT, trace(+) mf subrounded Gravel, wet, no odors.	Not Applicable	
	4						As above with approximately 2% or less peat.		
9	5	S-5	8' - 10'	9	0.0-ft.	6.0'	No recovery		
	4								
10	2	S-6	10' - 12'	19	0.7-ft.	10.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
	8								
11	9	S-6	10' - 12'	19	0.7-ft.	10.0'		0.0	
	10								
12	9	S-7	12' - 14'	35	1.4-ft.	12.0'	As above grading to Gray mf(+) SAND, trace mf subrounded Gravel, saturated, no odors.	0.0	
	7								
13	15	S-7	12' - 14'	35	1.4-ft.	12.9'	Gray mf(+) SAND w/ 1.8-in. of Gray SILT @ 12.9-ft. BGS, saturated, no odors.	0.0	
	20								
14	31	S-8	14' - 16'	43	1.5-ft.	14.0'	Gray cmf angular to subrounded GRAVEL and cmf SAND, saturated, no odors.	0.0	
	15								
15	20	S-8	14' - 16'	43	1.5-ft.	14.0'		0.0	
	23								
16	12							0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 4.3-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-3**
SHEET 1 OF 1
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 30-Aug-06

TYPE OF DRILL RIG:		Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	5	S-1	0' - 2'	43	1.7-ft.	Topsoil	0.0	
	31					Dark brown f SAND, little(-) SILT, trace f subrounded Gravel, organics present (roots, root traces, humus, etc.), moist, no odors.	0.0	
	12							
0.5'	7	S-2	2' - 4'	12	1.8-ft.	Fill Material		
	5					Asphalt.	0.0	
	6					0.8' Gray cmf SAND, some(+) mf(+) angular Gravel, moist, no odors.	0.0	
	6					1.2' Brown cmf(+) SAND, little mf angular Gravel, moist, naphthalene odor.		
2.0'	5	S-3	4' - 6'	11	1.4-ft.	Black f SAND, moist to damp, very slight weathered petroleum odors.		
	2					Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0	
	4					2.4' Gray vf SAND, some(-) Silt, damp, no odors.	0.0	
	7					4.0' As above with 1/4-in. Peat layer @ 4.7-ft., BGS, wet, no odors.	0.0	
	14					4.75' Gray cm(+)f SAND, little(-) to some mf(+) subrounded Gravel, wet, no odors.		
6.0'	8	S-4	6' - 8'	30	1.7-ft.	6.0' As above, wet, no odors.	0.0	
	14					6.4' Gray mf SAND, wet to saturated @ ~6.8-ft., no odors,	0.0	
	16					6.9' Gray to dark gray cmf SAND and m(+)f subrounded GRAVEL, saturated, no odor		
	18					8.0' As above, saturated, no odors.		
8.1'	10	S-5	8' - 10'	58	1.6-ft.	8.1' Brown Clayey SILT, trace f Sand (Incl. ~20% Peat), saturated, no odors.	0.0	
	35					8.2' Gray mf to mf(+) SAND with Red sandstone fragments from 8.7 to 9.1-ft. BGS, saturated, no odors.	0.0	
	23					10.0' As above with layers containing some mf(+) subrounded Gravel from 11.0 to 11.1-ft. and 11.3 to 11.4-ft., saturated, no odors.		
11.1'	19	S-6	10' - 12'	26	1.6-ft.	11.1-ft. and 11.3 to 11.4-ft., saturated, no odors.	0.0	
	4					11.1-ft. and 11.3 to 11.4-ft., saturated, no odors.	0.0	
	9							
12.0'	17	S-7	12' - 14'	35	1.4-ft.	12.0' Gray mf(+) SAND w/ 1.8-in. of Gray SILT @ 12.9-ft. BGS, saturated, no odors.	0.0	
	10					13.3' Gray f SAND, saturated, no odors.	0.0	
	17							
14.0'	18	S-8	14' - 16'	42	1.3-ft.	Gray mf SAND, little m(+)f subrounded to angular Gravel, saturated, no odors.	0.0	
	19							
	4							
	17							
	25							
	37							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 2.4-ft. BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
1	49	S-1	0' - 2'	26	1.4-ft.	0.0'	Fill Material Asphalt	0.2		
	16					0.5'		1.5		
	10					Gray cmf angular to subangular GRAVEL, some(+) cmf Sand w/geotextile fabric @ 1.0-ft., moist, no odors.				
2	4	S-2	2' - 4'	8	1.3-ft.	1.0'	Black cmf SAND, some f Gravel (Cinders), moist, very slight unknown odor.	0.0		
	2					1.3'		0.0		
3	4	S-3	4' - 6'	10	1.0-ft.	1.3'	Tan cmf SAND (Refractory Sand), moist, very slight weathered petroleum odor.	0.0		
	4					2.0'				0.0
	2					2.6'				Dark brown to black cmf SAND, little mf angular Gravel, trace(-) Silt (Incl. Cinders and Ash), damp, very slight weathered petroleum odor.
2	2.9'	0.0								
3	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits									
4	11	S-4	6' - 8'	36	1.4-ft.	4.0'	Gray mf SAND, trace Silt & Clay, damp to wet, no odors.	0.0		
	18					4.4'				Tan mf SAND, trace f subrounded Gravel, wet, no odors.
	18					4.8'					0.0
5	18	S-5	8' - 10'	102	0.2-ft.	6.0'	Brownish-gray to reddish-brown cmf SAND, some cmf subrounded to sub-angular Gravel, saturated, no odors.	0.0		
	8					8.0'				0.0
	46					Gray mf(+) SAND, some c subangular Gravel, saturated, no odors.				
6	56	S-6	10' - 12'	87	0.7-ft.	10.0'	Gray cmf SAND, some cmf angular to subrounded Gravel, saturated, no odors.	0.0		
	42					10.5'				0.0
	8					Gray f SAND, saturated, no odors.				
7	12	S-7	12' - 14'	28	1.1-ft.	12.0'	Gray cm(+)f SAND and cmf subrounded to subangular GRAVEL, saturated, no odors.	0.0		
	15					12.8'				Gray mf(+) SAND, saturated, no odors.
	13					14.0'					As above, saturated, no odors.
8	11	S-8	14' - 16'	3	1.1-ft.	14.8'	Gray to brown SILT & CLAY (Incl. ~15 to 20% Peat), saturated, no odors.	0.0		
	WOH					14.0'				
	2					14.8'				

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 3.3 and 4.0-ft. BGS
WOH = Weight of Hammer

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-4**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 29-Aug-06 END DATE 29-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	WOH WOH 1 2	S-9	16' - 18'	1	1.2-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brownish-gray to gray Silty CLAY (Incl. ~ 2 to 4% Peat), saturated, no odors.	0.0	
18							<i>Bottom of Boring @ 18.0-ft. BGS</i>		
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	43	S-1	0' - 2'	26	1.8-ft.	0.0'	Fill Material Asphalt	0.0	
	13					0.5'		0.0	
	13								
2	10	S-2	2' - 4'	35	0.7-ft.	1.0'	Fill Material Containing Slag Brown and gray cmf SAND, some mf angular Gravel (Incl. Slag w/ trace Cinders), moist, no odors.	0.0	
	10					2.0'			
14									
21									
11									
3	4	S-3	4' - 6'	18	0.2-ft.	4.0'	Brown mf ⁽⁺⁾ SAND (Mostly Foundry Sand w/trace Ash & Slag), damp, no odors	0.0	
	8					4.7'		0.0	
	10								
4	10	S-4	6' - 8'	16	2.0-ft.	6.0'	Bluish-gray cmf angular GRAVEL, some(-) cmf Sand (All Slag), damp, saturated, no odors.	0.0	
	12								
	10								
5	2	S-5	8' - 10'	6	0.9-ft.	8.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brownish-gray m ⁽⁺⁾ f subrounded to subangular GRAVEL and cmf SAND, saturated, no odors.	0.0	
	4								
	2								
6									
1									
6	1	S-6	10' - 12'	10	1.0-ft.	10.0'	Gray mf SAND, saturated, no odors.	0.0	
	4								
	6								
7	12	S-7	12' - 14'	38	1.0-ft.	12.0'	As above, saturated, no odors.	0.0	
	14					12.2'		0.0	
	24								
8	14	S-8	14' - 16'	10	1.1-ft.	14.0'	Gray cm ⁽⁺⁾ f SAND, saturated, no odors	0.0	
	10					14.2'		0.0	
	4								
9	6					 Grading To ...	0.0	
	9						Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 6.2 and 8.0-ft. BGS
 Monitoring well MW-BS5 installed within borehole BS-5.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-5**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles -START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	3	S-9	16' - 18'	4	1.1-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		0.0
	2						Gray mf ⁽⁺⁾ SAND, saturated, no odors.		
	2						Brown peat, saturated, no odors.		
18	3	S-10	18' - 20'	4	1.3-ft.	17.0'	Gray Clayey SILT (Incl. approx 30% Peat), saturated, no odors.	0.0	
	WOH						Gray CLAY & SILT (Incl. approx 15% Peat), saturated, no odors.		
	2								
19	2	S-10	18' - 20'	4	1.3-ft.	18.0'		0.0	
	2								
	2								
20							<i>Bottom of Boring @ 20.0-ft. BGS</i>		
21									
22									
23									
24									
25	7								
26	8								
27	8								
28	8								
29	13								
30	14								
31	2								
	8								
	12								
	16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 05-Sep-06 END DATE 05-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	4	S-1	0' - 2'	16	1.8-ft.	0.0'	Topsoil	0.0	
	8						Brown f-vf SAND, little Silt, trace mf angular to subangular Gravel, organics present (roots, root traces, humus, etc.), moist, no odors.	0.0	
	8						Fill Material		
2	7	S-2	2' - 4'	12	0.7-ft.	0.5'	Brown to grayish-brown cmf ⁽⁺⁾ SAND, little(-) mf angular to subangular Gravel, trace(+) Silt (Incl. Asphalt and Brick fragments), moist, no odors.	0.0	
	6						Fill Material Containing Slag		
	6						Deep brown m ⁽⁺⁾ f SAND, little(-) m angular Gravel (Incl. Foundry Sand & Slag), moist, no odors.	0.0	
4	2	S-3	4' - 6'	11	0.2-ft.	4.0'	Gray to brownish-gray cmf angular GRAVEL, some cmf ⁽⁺⁾ Sand, trace Silt (Incl. Slag & Ash), damp to wet, no odors.	0.0	
	6						Fill Material		
	8						Wood (sawn, but without creosote odor), saturated, no odors.	0.0	
7	14	S-4	6' - 8'	32	2.0-ft.	6.0'	As above, saturated, no odors.	0.0	
	18						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
	17						Gray f SAND, trace(-) Silt with occasional thin peat layers (~1/16 to 3/16 inches thick), saturated, no odors.	0.0	
9	6	S-5	8' - 10'	11	0.9-ft.	8.0'	As above, saturated, no odors.	0.0	
	5						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
	9						Gray f SAND, trace(-) Silt with occasional thin peat layers (~1/16 to 3/16 inches thick), saturated, no odors.	0.0	
11	7	S-6	10' - 12'	18	1.0-ft.	10.0'	As above, saturated, no odors.	0.0	
	9						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
	13						As above, saturated, no odors.	0.0	
13	11	S-7	12' - 14'	25	1.0-ft.	12.0'	As above, saturated, no odors.	0.0	
	12						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
	13						As above, saturated, no odors.	0.0	
15	7	S-8	14' - 16'	22	1.1-ft.	14.0'	As above, saturated, no odors.	0.0	
	6						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
	16						Gray mf ⁽⁺⁾ SAND, some(+) cmf subangular to subrounded Gravel, saturated, no odors.	0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 8.2-ft. BGS
 Monitoring well MW-BS6 installed within borehole BS-6.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York	BORING SHEET JOB # CHKD. BY:	BS-6 2 OF 2 206377-2a
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CONTRACTOR: Nothnagle Drilling Co. DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE: C. Stiles	BORING LOCATION GROUND SURFACE ELEVATION START DATE 05-Sep-06 END DATE 05-Sep-06	DATUM
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TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD Not Applicable	WATER LEVEL DATA <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS															
DATE	TIME	WATER	CASING	REMARKS																	

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	8	S-9	16' - 18'	15	1.3-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray cmf subrounded to subangular GRAVEL, some(+) mf Sand, saturated no odors. Gray mf SAND, saturated, no odors. Gray mf SAND, trace f subrounded Gravel, saturated, no odors.	0.0	
18	7					16.4'		0.0	
19	8					18.0'		0.0	
18	11	S-10	18' - 20'	9	1.0-ft.	18.0'	<i>Bottom of Boring @ 20.0-ft. BGS</i>	0.0	
19	1					18.0'		0.0	
20	4					18.0'		0.0	
21	5								
22	9								
23									
24									
25	7								
26	8								
27	8								
28	8								
29	13								
30	14								
31	2								
	8								
	12								
	16								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 30-Aug-06 END DATE 30-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

D E P T H	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	N O T E S
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	40	S-1	0' - 2'	20	1.4-ft.	0.0'	Fill Material	0.0	
	12					Asphalt	0.0		
	8					Gray cmf angular to subangular GRAVEL, some(+) cmf Sand, moist, no odors.			
2	8	S-2	2' - 4'	16	1.4-ft.	1.0'	Fill Material Containing Slag	0.0	
	4					Deep brown m SAND (Foundry Sand), little(+) cmf angular Gravel (Slag), moist, no odors.			
3	5	S-3	4' - 6'	7	1.5-ft.	2.0'	As above, moist, no odors.	0.0	
	11					Fill Material			
4	9	S-4	6' - 8'	37	1.6-ft.	2.8'	Gray to brown f SAND, little Silt, trace(+) mf angular Gravel (Concrete), damp, no odors.	0.0	
	4					Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits			
5	4	S-5	8' - 10'	30	1.2-ft.	4.0'	Gray f-vf SAND, little(-) Clayey Silt, damp, no odors.	0.0	
	3					Gray c ⁽⁺⁾ mf SAND, damp to wet, no odors.			
6	6	S-6	10' - 12'	34	1.3-ft.	4.9'	As above, wet, no odors.	0.0	
	20					Wood (no saw cuts or creosote odors), saturated, no odors.			
7	17	S-7	12' - 14'	33	0.5-ft.	6.4'	Gray c ⁽⁺⁾ mf SAND, wet, no odors.	0.0	
	15					Gray mf SAND, some(-) mf ⁽⁺⁾ subrounded to subangular Gravel, saturated, no odors.			
8	6	S-8	14' - 16'	37	1.4-ft.	8.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0	
	13					.... Grades To			
9	17	S-8	14' - 16'	37	1.4-ft.	8.4'	Gray f SAND, saturated, no odors.	0.0	
	15					Gray mf ⁽⁺⁾ SAND, saturated, no odors.			
10	4	S-8	14' - 16'	37	1.4-ft.	10.0'	As above, saturated, no odors.	0.0	
	15					Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors.			
11	19	S-8	14' - 16'	37	1.4-ft.	12.0'	As above, saturated, no odors.	0.0	
	24					As above, saturated, no odors.			
12	8	S-8	14' - 16'	37	1.4-ft.	14.0'	Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors.	0.0	
	12					As above, saturated, no odors.			
13	21	S-8	14' - 16'	37	1.4-ft.	14.0'	Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors.	0.0	
	22					As above, saturated, no odors.			
14	5	S-8	14' - 16'	37	1.4-ft.	14.0'	Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors.	0.0	
	18					As above, saturated, no odors.			
15	19	S-8	14' - 16'	37	1.4-ft.	14.0'	Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors.	0.0	
	25					As above, saturated, no odors.			

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil between 3.4 & 4.0-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-8**

SHEET 1 OF 1
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 30-Aug-06 END DATE 30-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	7	S-1	0' - 2'	10	1.5-ft.	0.0'	Fill Material Milled asphalt.	0.0	
0.4'	5					Tan vf SAND, trace Silt, moist to damp, no odors.	0.1		
1.1'	5					Reddish-brown m SAND (Foundry Sand), damp, no odors.			
2.0'	8	S-2	2' - 4'	16	1.6-ft.	2.0'	As above, damp, no odors.	0.1	
2.3'	8					Fill Material Containing Slag Gray, green and brown m ⁽⁺⁾ f angular GRAVEL (Gray & green Slag), some(+) cmf odors.	0.0		
	8								
2.5'	4	S-3	4' - 6'	7	1.4-ft.	2.5'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown f-vf SAND, trace Silt, damp, no odors. Grades To	0.0	
	3					Brown vf SAND, some Silt, damp, no odors.	0.0		
	4								
4.0'	6	S-4	6' - 8'	26	1.4-ft.	4.0'	As above, wet, no odors. Grades To	0.0	
	8					Brown vf SAND, some Clayey Silt, with thin Peat layer (<0.01-ft. thick) @ 5.3-ft. wet to saturated @ 5.2-ft., no odors.	0.0		
	12								
6.0'	9	S-5	8' - 10'	41	1.5-ft.	6.0'	Gray cmf SAND, little(+) mf subrounded to subangular Gravel, saturated, no odors.	0.0	
8.0'	19					Gray m ⁽⁺⁾ subrounded to subangular GRAVEL, some(+) cm Sand, saturated, no odors.	0.0		
	22								
9.0'	10	S-6	10' - 12'	14	1.5-ft.	9.0'	Gray m ⁽⁺⁾ SAND, saturated, no odors.	0.0	
10.0'	6					As above, saturated, no odors.	0.0		
	8								
12.0'	12	S-7	12' - 14'	27	1.3-ft.	12.0'	As above with layers of Brown cm ⁽⁺⁾ f SAND, some(+) f subrounded Gravel from 12.6 to 12.7-ft. and 13.0 to 13.1-ft., saturated, no odors.	0.0	
	6								
	13								
14.0'	14	S-8	14' - 16'	11	1.0-ft.	14.0'	Gray m ⁽⁺⁾ SAND, saturated, no odors. Grades To	0.0	
	4					Gray f SAND, little Silt w/ several thin (<0.01-ft.) Peat layers, saturated, no odors.			
	5								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 2.5-ft. BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 30-Aug-06 END DATE 30-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	2	S-1	0' - 2'	24	1.2-ft.	0.0'	Topsoil	0.0	Dark brown f SAND, little(+) cmf angular Gravel, little(-) Silt (Incl. Concrete), organics present (roots, root traces, humus, etc.), damp, no odors.
0.0'	9						Fill Material	0.0	
0.0'	15								
0.7'	19	S-2	2' - 4'	56	1.2-ft.	0.7'	Dark brown f SAND and cmf(+) angular Gravel, little(-) Silt (Incl. Concrete), damp, no odors.	0.0	
2.0'	26						Concrete fragments.	0.0	
2.3'	30						Fill Material Containing Slag	0.0	
2.3'	5	S-3	4' - 6'	10	0.6-ft.	2.3'	Orange-brown to gray cmf(+) SAND, some(+) cmf angular to subangular Gravel, trace Silt (Incl. Cinders, Concrete, Ash & Slag), moist, no odors.	0.0	
4.0'	5						Bluish-gray to brown cm(+)f angular GRAVEL and cmf SAND (Incl. Concrete, Cinders, & 1-piece Slag), moist to wet, no odors.	0.0	
6.0'	7						Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0	
6.0'	6	S-4	6' - 8'	8	0.9-ft.	6.0'	Grayish-brown c ⁽⁺⁾ mf SAND, some(-) mf ⁽⁺⁾ angular to subangular Gravel, wet to saturated, H ₂ S odor.	0.0	
8.0'	5							0.0	
8.4'	12							0.0	
8.0'	1	S-5	8' - 10'	17	1.0-ft.	8.0'	Brown to grayish-brown mf ⁽⁺⁾ SAND and Clayey SILT, organics present (Peaty wood fragments), saturated, H ₂ S odor.	0.0	
8.4'	5						Gray cmf SAND, some(+) mf subrounded Gravel, saturated, no odors.	0.0	
10.0'	22							0.0	
10.0'	5	S-6	10' - 12'	79	1.4-ft.	10.0'	As above, saturated, no odors.	0.0	
10.8'	25						Gray cm ⁽⁺⁾ f SAND, saturated, no odors.	0.0	
12.0'	54							0.0	
12.0'	10	S-7	12' - 14'	27	1.5-ft.	12.0'	Gray mf ⁽⁺⁾ SAND, trace(-) m subrounded Gravel, saturated, no odors.	0.0	
0.0'	13						.... Grades To	0.0
0.0'	14						Gray f SAND, saturated, no odors.	0.0	
14.0'	4	S-8	14' - 16'	8	1.0-ft.	14.0'	As above, saturated, no odors.	0.0	
0.0'	3						.... Grades To	0.0
0.0'	5						Gray cm ⁽⁺⁾ f SAND with 3/16-in. thick Peat layer @ 14.7-ft. BGS, saturated, no odors.	0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil between 4.6 & 6.0-ft. BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-9**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 30-Aug-06 ~ END DATE 30-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	2	S-9	16' - 18'	<1	1.3-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray f SAND, trace Clayey Silt (Incl. ~2% Peat), saturated, no odors. Grades To	0.0	
18	WOH							0.0	
19	2	S-10	18' - 20'	2	1.1-ft.	18.0'	As above., but only contains ~10% Peat, saturated, no odors. Gray f SAND, trace(-) Silt, saturated, no odors.	0.0	
20	WOH							0.0	
21	1							0.0	
22	1								
23	3						Bottom of Boring @ 20.0-ft. BGS		
24									
25									
26									
27									
28									
29									
30									
31									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	2	S-1	0' - 2'	23	1.3-ft.	0.0'	Topsoil Brown f SAND, little Silt, little(-) mf angular Gravel (Brick fragments), organics present (roots, root traces & humus), damp, no odors.	0.0	
0.0'	12						0.0		
0.0'	11						0.0		
0.6'	8	S-2	2' - 4'	25	0.4-ft.	2.0'	Fill Material Containing Slag Gray, green and brown cmf angular GRAVEL (Gray & green Slag), some(+) cmf Sand (Cinders & Slag), moist, no odors.	0.0	
2.0'	12						0.0		
2.0'	13						0.0		
4.0'	9	S-3	4' - 6'	7	1.2-ft.	4.3'	As above, damp, no odors.	0.0	
4.3'	6						0.0		
4.3'	5						0.0		
6.0'	2	S-4	6' - 8'	3	1.4-ft.	6.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Tan to brown mf(+) SAND, damp, no odors.	0.0	
6.0'	2						0.0		
6.0'	2						0.0		
7.3'	1	S-5	8' - 10'	13	0.9-ft.	8.0'	Tan to brown cm(+) SAND, wet, no odors.	0.0	
8.0'	7						0.0		
8.0'	6						0.0		
10.0'	8	S-6	10' - 12'	15	1.1-ft.	10.0'	As above, saturated, no odors.	0.0	
10.0'	4						0.0		
10.0'	7						0.0		
12.0'	8	S-7	12' - 14'	4	1.1-ft.	12.0'	Gray mf(+) SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0	
12.0'	8						0.0		
12.0'	2						0.0		
14.0'	2	S-8	14' - 16'	4	0.7-ft.	14.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
14.0'	2						0.0		
14.0'	2						0.0		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 4.3-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-10**
SHEET 2 OF 2
JOB # 206377-2a
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 01-Sep-06 END DATE 01-Sep-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	1	S-9	16' - 18'	3	1.6-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray Silty CLAY with Peat layers @ 16.5-ft. BGS (~3/16-in. thick) and 16.6-ft. BGS (~1/4-in. thick), saturated, no odors.	0.0	
18	2								
19	2	S-10	18' - 20'	>2	0.2-ft.	18.0'	As above, saturated, no odors.	0.0	
20	2								
21									
22									
23									
24	7								
25	8								
26	8								
27	8								
28	13								
29	14								
30	2								
31	8								
	12								
	16								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 31-Aug-06 END DATE 31-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	5	S-1	0' - 2'	19	1.4-ft.	0.0'	Topsoil	0.0	
	10						Brown f SAND, little Silt, trace(+) mf subrounded Gravel, organics present (roots, root traces, humus, etc.), moist, no odors.	0.0	
	9						Fill Material Containing Slag		
2	10	S-2	2' - 4'	21	1.5-ft.	0.4'	Tan to brown m ⁽⁺⁾ SAND, little mf subrounded to angular Gravel (Incl. Slag), moist, no odors.	0.0	
	6						Tan m ⁽⁺⁾ SAND, little cmf angular Gravel (Incl Slag), moist, no odors.	0.0	
	9						Fill Material		
3	12	S-3	4' - 6'	16	1.9-ft.	4.0'	Tan m ⁽⁺⁾ SAND, trace Silt, trace mf subrounded to subangular Gravel, moist, no odors.	0.0	
	6						Fill Material Containing Slag		
	8						Black cmf SAND, little f subangular Gravel, trace Silt (Incl. Cinders, Glass, Ash & trace Slag), damp, very slight waste oil odor.	0.0	
4	7	S-4	6' - 8'	13	1.2-ft.	4.7'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0	
	4						Dark gray SILT, trace(+) vf Sand, damp to wet, no odors.	0.0	
	6						As above, saturated, no odors.		
5	8	S-5	8' - 10'	20	0.9-ft.	6.7'	Gray cmf SAND, little(+) mf subrounded to subangular Gravel, saturated, no odors.	0.0	
	8						Wood, no creosote odor, saturated.		
	7						Gray c ⁽⁺⁾ mf SAND and f subrounded Gravel, saturated, no odors.		
6	9	S-6	10' - 12'	23	1.0-ft.	10.0'	Gray mf SAND, some to some(+) cmf subrounded to subangular Gravel, saturated, no odors.	0.0	
	11								
	14								
7	11	S-7	12' - 14'	33	1.1-ft.	12.0'	Gray cmf SAND, little mf subrounded Gravel, saturated, no odors.	0.0	
	12						Gray f SAND, saturated, no odors.		
	13								
8	12	S-8	14' - 16'	27	1.2-ft.	14.0'	Gray mf SAND, trace(-) f subrounded Gravel, saturated, no odors.	0.0	
	14								
	13								
16	11						Bottom of Boring @ 16.0-feet BGS	0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 4.7-ft. BGS.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Kevin Bush (Driller) & James Smith (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 30-Aug-06 END DATE 30-Aug-06

TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	8	S-1	0' - 2'	122	2.0-ft.	0.0'	Topsoil Brown f SAND, little Silt, trace(+) mf subrounded Gravel, moist, no odors.	0.0	
0.4'	46					0.4'	Fill Material Containing Slag Brownish-gray metallic SLAG.	0.0	
0.6'	76					0.6'	Fill Material Gray Concrete and Limestone fragments.	0.0	
1.2-ft.	30	S-2	2' - 4'	85	1.2-ft.	0.6'	Fill Material Containing Slag Gray and brown cmf angular GRAVEL and cmf(+) SAND, little(-) Silt (Incl. Concrete, Crushed Gravel and trace Slag), moist, no odors.	0.0	
2.0'	25					2.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown f SAND, little(-) Silt, damp, no odors.	0.0	
4.0'	40					4.0'	.... Grading To ...	0.0
1.6-ft.	45	S-3	4' - 6'	8	1.7-ft.	4.0'	Brown f SAND, little Clayey Silt, damp to wet, no odors.	0.0	
6.0'	4					6.0'	Brown f SAND, little(+) Silt, wet, no odors.	0.0	
6.7'	5					6.7'	Gray mf subangular to angular GRAVEL and cm SAND, wet, no odors.	0.0	
1.4-ft.	3	S-4	6' - 8'	14	1.6-ft.	6.9'	Gray mf SAND, wet, no odors.	0.0	
8.0'	6					8.0'	Gray mf SAND, saturated, no odors.	0.0	
10.0'	2					10.0'	As above with Wood fragment @ 10.4-ft. BGS, saturated, no odors.	0.0	
0.8-ft.	1	S-5	8' - 10'	2	0.8-ft.	8.0'	Wood, saturated, no odors.	0.0	
1.4-ft.	1					12.0'	Gray mf SAND, some c(+)mf subrounded Gravel, saturated, no odors.	0.0	
1.4-ft.	2					12.3'	Gray mf SAND, some c(+)mf subrounded Gravel, saturated, no odors.	0.0	
0.6-ft.	4	S-6	10' - 12'	6	0.4-ft.	12.0'	Gray mf(+) SAND, little cm(+)f subrounded to subangular Gravel, saturated, no odors.	0.0	
0.6-ft.	3					14.0'	Gray mf(+) SAND, little cm(+)f subrounded to subangular Gravel, saturated, no odors.	0.0	
0.6-ft.	9					14.0'	Bottom of Boring @ 16.0-feet BGS		

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Native soil encountered between 3.2 & 4.0-ft. BGS.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES			
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)							
0.0'	2	S-1	0' - 2'	11	1.7-ft.	0.0'	Topsoil Brown f SAND, little Silt, little(-) mf ⁽⁺⁾ subangular Gravel, organics present (roots root traces, humus), damp, no odors.	0.0				
	5											0.0
	6											
0.6'	15	S-2	2' - 4'	16	1.4-ft.	0.6'	Fill Material Brown f SAND, little(+) cmf subangular to subrounded Gravel, little Silt (Incl. Asphalt fragments), damp, no odors.	0.5				
	12											
	10											
2.0'	6	S-3	4' - 6'	7	0.4-ft.	2.0'	Fill Material Containing Slag Brown mf ⁽⁺⁾ SAND, some cmf sub angular to angular Gravel (Incl/ blue-green Slag and Ash), damp, no odors.	0.1				
	4											
	2											
3.1'	3	S-4	6' - 8'	10	0.0-ft.	3.1'	Fill Material Brown mf ⁽⁺⁾ SAND, damp, no odors.	0.0				
	4											
	8											
4.0'	4	S-5	8' - 10'	14	0.0-ft.	4.0'	Dark brown cmf SAND, little(-) mf angular to subangular Gravel (Incl. Ash), wet, no odors.	Not Available				
	7											
	3											
8.0'	7	S-6	10' - 12'	14	1.2-ft.	8.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brownish-gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0				
	8											
	8											
12.0'	2	S-7	12' - 14'	10	1.4-ft.	12.0'	No recovery.	0.0				
	5											
	7											
12.3'	4	S-8	14' - 16'	3	1.0-ft.	12.3'	As above, saturated, no odors.	0.1				
	6											
	4											
14.0'	6	S-8	14' - 16'	3	1.0-ft.	14.0'	Gray mf SAND, saturated, no odors.	0.0				
	1											
	1											
	2						0.1					
	2						0.0					

Bottom of Boring @ 16.0-feet BGS

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-1
 Native soil encountered @ 4.2-ft.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)					
0.0'	3	S-1	0' - 2'	20	1.1-ft.	0.0'	Topsoil Brown f SAND, little(-) Clayey Silt, trace f Gravel, organics present (roots, root traces, humus), wet, no odors.	0.4		
0.1'	8					0.1'	WOOD (Tree root).	0.4		
0.3'	12									
0.3'	7	S-2	2' - 4'	15	1.0-ft.	0.3'	Fill Material Containing Slag Dark to deep brown cmf SAND, some(+) cmf angular to subrounded Gravel (Incl. blue-green Slag, Ash and Foundry Sand), damp, no odors.	0.0		
0.4'	7									0.1
2.0'	8									
2.0'	2	S-3	4' - 6'	4	0.4-ft.	2.0'	Fill Material Deep brown cm ⁽⁺⁾ f SAND, trace f subangular Gravel, (Incl. Foundry Sand w/ trace Ash), damp, no odors.	0.1		
4.0'	2									
6.0'	2									
6.0'	2	S-4	6' - 8'	4	1.6-ft.	6.0'	Fill Material Containing Slag As above with trace blue-green Slag, wet to saturated @ 4.3-ft., no odors.	0.2		
6.7'	2									
8.0'	4									
8.0'	10	S-5	8' - 10'	12	1.4-ft.	8.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown & gray mf ⁽⁺⁾ SAND, little Peat, trace Silt, saturated, very slight H ₂ S odor.	4.3		
8.0'	6									
8.0'	6									
10.0'	6	S-6	10' - 12'	22	1.4-ft.	10.0'	Gray f SAND, trace(-) Silt, saturated, very slight H ₂ S odor.	3.7		
10.0'	10									
10.0'	6									
10.0'	10	S-6	10' - 12'	22	1.4-ft.	10.0'	As above, saturated, no odors.	0.2		
10.0'	10									
10.0'	12									
10.0'	10	S-6	10' - 12'	22	1.4-ft.	10.0'	.... Grades To Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.1		
12.0'	1									
12.0'	3									
12.0'	3	S-7	12' - 14'	8	1.6-ft.	12.0'	As above with thin PEAT layers (~0.01-ft thick) @ 12.3 and 13.2-ft., saturated, no odors.	0.2		
12.0'	5									
12.0'	6									
14.0'	1	S-8	14' - 16'	3	1.2-ft.	14.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0		
14.0'	1									
14.0'	2									
16.0'	3									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-2
Native soil encountered @ 6.7-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekorp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES			
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)		
1	36	S-1	0' - 2'	30	1.7-ft.	0.0'	0.8				
	16								0.5'	Asphalt Pavement - Not sampled.	0.4
	14								1.0'	Gray cm ⁽⁺⁾ f angular to subangular GRAVEL, some cmf ⁽⁺⁾ Sand, moist, no odors.	
2	9	S-2	2' - 4'	12	1.4-ft.	1.4'	0.0				
	5								1.3'	Dark gray cm ⁽⁺⁾ f SAND, trace(+) f Gravel (Incl. Ash and Cinders), moist, no odors.	
3	6	S-3	4' - 6'	7	1.4-ft.	3.1'	0.0				
	6								4.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	
	5								4.3'	Dark brown SILT and f SAND, trace(-) f Gravel, damp, no odors.	
4	2	S-4	6' - 8'	19	1.2-ft.	4.6'	0.0				
	5								4.6'	Brown mf SAND, moist, no odors.	
	3								5.2'	Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry sand), moist, no odors.	
5	2	S-5	8' - 10'	24	1.5-ft.	6.0'	0.0				
	5								6.1'	Gray SILT, little(-) f-vf Sand (Incl. Peat fragments), damp, no odors.	
	3								6.3'	Gray mf ⁽⁺⁾ SAND, damp, no odors.	
6	3	S-6	10' - 12'	21	1.3-ft.	10.0'	0.0				
	3								10.9'	Gray to grayish-brown f SAND, trace(+) Peat, trace Silt, damp, no odors.	
	8								10.9'	Gray f SAND, saturated, no odors.	
7	8	S-7	12' - 14'	32	1.6-ft.	12.0'	0.0				
	11								12.0'	As above with trace f subrounded Gravel from 10.4-10.6-ft., saturated, no odors.	
	11								12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
8	9	S-8	14' - 16'	6	1.1-ft.	12.6'	0.0				
	10								12.6'	As above, saturated, no odors.	
	10								12.6'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
9	10	S-5	8' - 10'	24	1.5-ft.	6.1'	0.0				
	14								6.1'	Gray mf SAND, little(+) mf subrounded Gravel, saturated, no odors.	
	15								6.3'	Gray f SAND, saturated, no odors.	
10	6	S-6	10' - 12'	21	1.3-ft.	10.0'	0.0				
	6								10.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
	6								10.9'	As above with trace f subrounded Gravel from 10.4-10.6-ft., saturated, no odors.	
11	6	S-6	10' - 12'	21	1.3-ft.	10.0'	0.0				
	15								10.9'	Gray f SAND, saturated, no odors.	
	24								10.9'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
12	2	S-7	12' - 14'	32	1.6-ft.	12.0'	0.0				
	7								12.0'	As above, saturated, no odors.	
	25								12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
13	7	S-7	12' - 14'	32	1.6-ft.	12.0'	0.0				
	25								12.0'	As above, saturated, no odors.	
	27								12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	
14	2	S-8	14' - 16'	6	1.1-ft.	12.6'	0.0				
	3								12.6'	Gray c ⁽⁺⁾ mf to m ⁽⁺⁾ f SAND, some mf subrounded Gravel, saturated, no odors.	
	3								14.0'	Gray mf SAND, little(-) m ⁽⁺⁾ f subrounded to rounded Gravel, saturated, no odors.	
15	3	S-8	14' - 16'	6	1.1-ft.	14.0'	0.0				
	2								14.8'	Gray f SAND, trace(+) Silt with trace Peat from 15.0-15.1-ft., saturated, no odors.	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-3
 Native soil encountered @ 1.4-ft.

Bottom of Boring @ 16.0-feet BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	3	S-1	0' - 2'	15	1.4-ft.	0.0'	Topsoil	0.0	
	6						Dark brown f SAND, little(-) Silt, trace f subrounded Gravel, organics present (roots, root traces, humus), damp, no odors.	0.0	
	9						Fill Material Containing Slag		
2	19	S-2	2' - 4'	8	<0.1-ft.	0.4'	Brown and grayish-green cmf(+) SAND, some cmf angular to subangular Gravel (Incl. Slag w/ trace Cinders), moist, no odors.	Not Available	
	7						1-Piece blue-green Slag).		
3	5	S-3	4' - 6'	3	1.2-ft.	2.0'	Light brown mf(+) SAND, trace(+) mf angular to subrounded Gravel (Incl. blue-green Slag (~2%)), damp to wet, no odors.	0.1	
	3							0.0	
	3							Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	
4	2	S-4	6' - 8'	4	1.4-ft.	6.0'	Brown mf SAND, saturated, no odors.	0.0	
	2						6.7' Grayish-brown Clayey SILT, trace vf Sand, trace(-) f Gravel, saturated, no odors.	0.0	
	2						7.0' Grayish-brown cm(+)f SAND, saturated, no odors.		
5	1	S-5	8' - 10'	4	0.8-ft.	8.0'	Dark grayish-brown mf SAND, little(-) Clayey Silt, trace f subrounded Gravel, saturated, no odors.	0.0	
	3								
	4								
6	2	S-6	10' - 12'	7	0.9-ft.	10.0'	Dark gray cm(+)f SAND, little(+) mf subrounded Gravel, trace Silt, trace(-) Peat, saturated, no odors.	0.0	
	3								
	4								
7	4	S-7	12' - 14'	17	1.0-ft.	12.0'	Dark gray mf SAND, saturated, no odors.	0.0	
	8						12.7' Dark gray cmf SAND, saturated, no odors.		
	9						12.8' Dark gray mf(+) SAND, saturated, no odors.		
8	9	S-8	14' - 16'	5	1.4-ft.	14.0'	As above, saturated, no odors.	0.0	
	2						0.0		
	3						0.0		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-4
 Native soil encountered between 6.9 & 8.0-ft.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 06-Nov-06 END DATE 06-Nov-06

TYPE OF DRILL RIG:		WATER LEVEL DATA	
CME Model 75 Truck-mounted Rotary Drill Rig		DATE	TIME
AUGER SIZE AND TYPE	4.25-Inch ID	WATER	CASING
OVERBURDEN SAMPLING METHOD	2" x 2' Split-spoon w/140# Hammer		REMARKS
ROCK DRILLING METHOD	Not Applicable		

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES				
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)								
0.0'	7	S-1	0' - 2'	28	1.5-ft.	0.0'	Topsoil Dark brown f SAND, little Silt, organics present (roots, root traces, humus), damp, no odors.	0.2					
	15											0.3	
	13												
0.3'	39	S-2	2' - 4'	24	1.4-ft.	2.0'	Fill Material Containing Slag Brown and gray cmf angular to subangular GRAVEL and cm ⁽⁺⁾ f SAND (Incl. Foundry Sand and Slag w/ apparent Beach Sand), damp, no odors.	0.1					
	10											0.0	
	11												
2.3'	13	S-3	4' - 6'	10	1.1-ft.	3.1'	Fill Material Brown mf ⁽⁺⁾ SAND, damp, no odors.	0.0					
	3											0.1	
	7												
4.0'	4	S-4	6' - 8'	4	0.9-ft.	4.0'	Brown SILT, little(+) mf subrounded Gravel, trace cmf Sand, damp, no odors.	0.0					
	2											0.0	
	2												
8.0'	2	S-5	8' - 10'	4	0.9-ft.	8.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray cmf SAND, wet to saturated @ ~6.4-ft., no odors.	0.0					
	2											0.0	
	2												
10.0'	2	S-6	10' - 12'	12	0.9-ft.	10.0'	Gray f SAND, trace(-) Silt, saturated, no odors.	0.0					
	3											0.1	
	5												
12.0'	7	S-7	12' - 14'	36	1.5-ft.	12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.1					
	8											0.0	
	9												
14.0'	17	S-8	14' - 16'	7	1.3-ft.	14.0'	Gray mf SAND, little(+) cmf subrounded Gravel, saturated, no odors.	0.0					
	19											0.0	
	20												
	2						Gray f to vf SAND, trace Silt, trace(-) Peat fragments.	0.0					
	5							0.0					
	5							0.0					

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-5
Native soil encountered between 3.4 & 4.0-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG:		WATER LEVEL DATA	
CME Model 75 Truck-mounted Rotary Drill Rig		DATE	TIME
AUGER SIZE AND TYPE	4.25-Inch ID	WATER	CASING
OVERBURDEN SAMPLING METHOD	2" x 2' Split-spoon w/140# Hammer		REMARKS
ROCK DRILLING METHOD	Not Applicable		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
1	12	S-1	0' - 2'	21	1.5-ft.	0.0'	0.1	
	11							
	10							
2	25	S-2	2' - 4'	52	1.4-ft.	0.7'	1.3	
	25							
3	30	S-2	2' - 4'	52	1.4-ft.	2.0'	1.7	
	22							
4	20	S-3	4' - 6'	10	1.3-ft.	4.0'	0.4	
	4							
5	6	S-3	4' - 6'	10	1.3-ft.	4.0'	0.0	
	4							
6	3	S-4	6' - 8'	9	1.2-ft.	6.0'	0.0	
	3							
7	4	S-4	6' - 8'	9	1.2-ft.	6.2'	0.0	
	5							
8	6	S-5	8' - 10'	15	1.0-ft.	8.0'	3.2	
	6							
9	2	S-5	8' - 10'	15	1.0-ft.	8.0'	2.1	
	5							
10	10	S-6	10' - 12'	23	0.9-ft.	10.0'	2.7	
	11							
11	13	S-6	10' - 12'	23	0.9-ft.	10.0'	2.3	
	10							
12	13	S-7	12' - 14'	12	0.7-ft.	12.0'	0.0	
	15							
13	5	S-7	12' - 14'	12	0.7-ft.	12.0'	0.0	
	6							
14	6	S-7	12' - 14'	12	0.7-ft.	12.0'	0.0	
	12							
15	5	S-8	14' - 16'	3	1.1-ft.	14.0'	0.0	
	12							
16	1	S-8	14' - 16'	3	1.1-ft.	14.9'	0.0	
	2							
16	2	S-8	14' - 16'	3	1.1-ft.	14.9'	0.0	
	2							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-6
 Native soil encountered between 3.4 & 4.0-ft.
 Bottom of Boring @ 16.0-feet BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)					
1	60	S-1	0' - 2'	47	1.6-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled.	0.2		
	27					0.5'	Gray cm ⁽⁺⁾ f angular to subangular GRAVEL and cm ⁽⁺⁾ SAND, slightly moist, no odors.	0.2		
	20									
2	20	S-2	2' - 4'	16	1.2-ft.	1.0'	Fill Material Containing Slag Dark brown mf GRAVEL and SILT, trace f Sand (incl. blue-green Slag), moist, no odors.	0.0		
	14									0.0
	8									
3	8	S-3	4' - 6'	5	1.5-ft.	1.3'	Fill Material Brown mf SAND, moist, no odors.	0.0		
	8					2.0'	Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry Sand), moist, no odors.	0.0		
	3									
4	3	S-4	6' - 8'	16	1.2-ft.	2.4'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Dark brownish-gray SILT, little(-) mf ⁽⁺⁾ subrounded Gravel, damp, no odors. Grades To	1.0		
	2					4.0'	Brown SILT, trace vf Sand, damp, no odors. As above, wet, H ₂ S odor. Grades To	0.3		
	6									
5	6	S-5	8' - 10'	19	1.1-ft.	6.0'	Dark grayish-brown Clayey SILT, wet to saturated @ ~4.8-ft., H ₂ S odor.	0.0		
	10					6.4'	Gray mf SAND, saturated, no odors.	0.0		
	12					6.7'	Gray mf SAND, some(-) mf subrounded Gravel, saturated, no odors.			
6	1	S-6	10' - 12'	16	1.2-ft.	8.0'	As above, saturated, no odors.	0.0		
	3					10.0'	Gray m ⁽⁺⁾ SAND, trace f subrounded Gravel, saturated, very slight H ₂ S odor.	0.0		
	13									
7	16	S-7	12' - 14'	5	0.8-ft.	12.0'	As above, saturated, no odors.	0.0		
	1					12.5'	Gray mf SAND, little(+) f subrounded to subangular Gravel, saturated, no odors.	0.0		
	2									
8	3	S-8	14' - 16'	5	1.4-ft.	14.0'	As above, saturated, no odors.	0.0		
	5					14.5'	Gray m ⁽⁺⁾ SAND, saturated, no odors.			
	1					15.0'	Gray Clayey SILT, trace(+) vf Sand, saturated, no odors.	0.0		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

Bottom of Boring @ 16.0-feet BGS
 NOTES: Originally logged as boring PB-7
 Native soil encountered @ 2.4-ft.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	6	S-1	0' - 2'	27	1.5-ft.	0.0'	Topsoil Dark brown f SAND, little Silt, trace(+) f subrounded to subangular Gravel, organics present (roots, root traces, humus), damp, no odors.	0.2	
0.3'	15						0.1		
2.0'	12						0.1		
2.0'	12	S-2	2' - 4'	9	1.5-ft.	2.0'	Fill Material Containing Slag Brown and gray cmf SAND, some(-) cmf angular to subangular Gravel, trace(-) Silt (Incl. blue-green and gray Slag, Asphalt and Ash), moist, no odors. Dark brown to brown cmf SAND, little(+) mf subangular to subrounded Gravel, (Incl. Slag, Cinders, Ash and Foundry Sand), damp to wet, no odors.		
3.0'	9						0.0		
4.0'	4						0.4		
3.0'	5	S-3	4' - 6'	5	1.0-ft.	3.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Dark gray SILT, trace(-) vf Sand, trace(-) f Gravel, wet no odors. Grades To		
4.9'	2						0.2		
6.0'	3						0.2		
8.0'	4	S-4	6' - 8'	6	1.3-ft.	6.2'	Gray SILT, trace(+) vf Sand, wet, no odors. Grayish-brown Clayey SILT, wet to saturated @ ~4.5-ft., no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, little(-) f subrounded Gravel, saturated, no odors.		
8.0'	7						0.1		
8.6'	12						0.1		
10.0'	15	S-5	8' - 10'	19	1.1-ft.	10.0'	Gray mf(+) SAND, saturated, no odors. As above, saturated, no odors.		
10.6'	7						1.3		
11.0'	20						0.1		
12.0'	20	S-6	10' - 12'	27	1.4-ft.	12.0'	Gray mf(+) SAND, saturated, no odors. Gray mf(+) SAND, some cmf subrounded Gravel, saturated, no odors. Gray mf(+) SAND, saturated, no odors.		
12.0'	12						0.1		
12.0'	17						0.1		
14.0'	21	S-7	12' - 14'	37	1.5-ft.	14.0'	Gray f SAND w/ layer of gray cmf SAND from 13.1 to 13.2-ft., saturated, no odors. Grades To		
14.0'	20						0.0		
14.8'	2						0.0		
14.8'	2	S-8	14' - 16'	11	1.2-ft.	14.8'	Gray mf(+) SAND, saturated, no odors. As above, saturated, no odors. Gray cmf SAND and cmf subround to subangular GRAVEL, saturated, no odors.		
14.8'	9						0.1		
14.8'	12						0.1		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-8
 Native soil encountered @ 3.0-ft.

Bottom of Boring @ 16.0-feet BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekorp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 08-Nov-06 END DATE 08-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	13	S-1	0' - 2'	72	1.5-ft.	0.0'	Brown f SAND, little Silt, trace mf ⁽⁺⁾ subrounded Gravel, organics present (roots, root traces, humus, etc.), damp, no odors.	5.2	
	15								
	57								
2	60	S-2	2' - 4'	0	<0.1-ft.	0.4'	Gray to black cmf angular GRAVEL, some(+) cmf Sand (Incl. Cinders and Ash), damp, no odors.	0.3	
	100/5'								
3		S-3	4' - 6'	10	0.5-ft.	4.0'	Blue-green cmf angular Gravel, some cmf Sand (All blue-green Slag), moist, no odors.	0.2	
4	4	S-4	6' - 8'	21	0.4-ft.	6.0'	As above, but now only ~80% Slag), damp to wet, no odors.	0.4	
	7								
5	3	S-5	8' - 10'	3	0.25-ft.	8.0'	As above, saturated, no odors.	0.0	
	10								
6	6	S-6	10' - 12'	17	0.9-ft.	10.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.2	
	11								
7	11	S-7	12' - 14'	11	1.2-ft.	12.0'	As above, saturated, no odors.	0.0	
	3								
8	2	S-8	14' - 16'	40	1.3-ft.	14.0'	Gray cmf subrounded to subangular GRAVEL and cmf SAND, saturated, no odors.	0.0	
	1								
9	3								
	6								
10	8								
	9								
11	8								
	1								
12	4								
	7								
13	8								
	7								
14	7								
	26								
15	14								
	14								
16	8						Bottom of Boring @ 16.0-feet BGS		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-9
 Native soil encountered @ 6.3-ft.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 06-Nov-06 END DATE 06-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
0.0'	60	S-1	0' - 2'	42	1.5-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled.	0.1	
0.5'	26					0.5'	Gray cmf angular GRAVEL and cmf SAND, trace Silt, slightly moist, no odors.	0.6	
1.2'	16					Fill Material Containing Slag Brown cmf SAND, little(-) f angular Gravel (Incl. Foundry Sand and Slag), moist, no odors.	8.2		
1.4'	20	S-2	2' - 4'	23	1.0-ft.	1.2'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Dark brown SILT and f SAND, trace(-) f Gravel, damp, no odors.		
1.3'	14					1.3'	Brown mf SAND, moist, no odors.		
2.0'	9					2.0'	Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry Sand), moist, no odors.		
3.1'	9	S-3	4' - 6'	9	<0.1-ft.	1.4'	.... Grades To		
4.0'	3					3.1'	Gray SILT, little(-) f-vf Sand (Incl. Peat fragments), damp, no odors.	0.2	
4.3'	6					4.0'	Gray mf ⁽⁺⁾ SAND, damp, no odors.		
4.6'	3	S-4	6' - 8'	11	1.0-ft.	4.3'	Gray f SAND, wet to saturated @ ~4.5-ft., no odors.		
5.2'	4					4.6'	Gray cmf SAND, little f subrounded Gravel, saturated, no odors.	0.3	
6.1'	7					5.2'	Gray mf ⁽⁺⁾ SAND, some(-) Peat, trace Silt, saturated, no odors.		
6.3'	9	S-5	8' - 10'	17	0.7-ft.	6.1'	Gray mf SAND, little(+) mf subrounded Gravel, saturated, no odors.		
10.0'	2					6.3'	Gray f SAND, saturated, no odors.		
10.9'	4					10.0'	.... Grades To	4.7	
10.9'	4	S-6	10' - 12'	15	1.3-ft.	10.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	1.9	
12.6'	11					10.9'	As above with trace f subrounded Gravel from 10.4-10.6-ft., saturated, no odors.		
12.6'	11					12.6'	Gray f SAND, saturated, no odors.	0.4	
12.6'	2	S-7	12' - 14'	29	0.7-ft.	12.6'	.... Grades To		
14.0'	6					12.6'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.		
14.8'	23					14.0'	Gray c ⁽⁺⁾ mf to m ⁽⁺⁾ f SAND, some mf subrounded Gravel, saturated, no odors.		
14.8'	9	S-8	14' - 16'	1	0.8-ft.	14.0'	Gray mf SAND, little(-) m ⁽⁺⁾ f subrounded to rounded Gravel, saturated, no odors.	0.0	
14.8'	1					14.8'	Gray f SAND, trace(+) Silt with trace Peat from 15.0-15.1-ft., saturated, no odors.		
14.8'	1								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-10
 WOH denotes Weight of Hammer.
 Native soil encountered @ 1.4-ft.

Bottom of Boring @ 16.0-feet BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 08-Nov-06 END DATE 08-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES		
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)					RECOVERY (FEET)	
1	40	S-1	0' - 2'	45	1.5-ft.	0.0'	0.2	Asphalt Pavement - Not sampled.		
	30								0.5'	3.1
	15									
2	17	S-2	2' - 4'	24	1.2-ft.	1.0'	2.1	Tan cmf SAND, little m ⁽⁺⁾ angular Gravel (Incl. Bottom Ash w/ trace Slag), moist, no odors.		
	7								2.0'	0.7
	14									
3	10	S-3	4' - 6'	21	1.1-ft.	2.0'	0.0	Blue-green c ⁽⁺⁾ mf SAND, little(+) ⁽⁺⁾ mf angular Gravel (Incl. blue-green Slag w/ Bottom Ash), damp, no odors.		
	2								4.0'	0.0
	7									
4	14	S-4	6' - 8'	7	1.3-ft.	4.1'	0.0	Gray mf SAND, some(-) cmf subrounded Gravel, wet, no odors.		
	3								6.0'	0.0
	11									
5	3	S-5	8' - 10'	16	1.0-ft.	8.0'	0.0	Gray f SAND, saturated, no odors.		
	7								8.6'	0.1
	4									
6	12	S-6	10' - 12'	12	1.1-ft.	10.0'	0.0	Gray m ⁽⁺⁾ SAND, saturated, no odors.		
	4								10.0'	0.0
	8									
7	11	S-7	12' - 14'	55	1.3-ft.	12.5'	0.0	Gray f-vf SAND, saturated, no odors.		
	15								12.6'	0.0
	27									
8	28	S-8	14' - 16'	33	0.9-ft.	12.6'	0.0	Gray cmf SAND, trace f subrounded Gravel, saturated, no odors.		
	30								12.6'	0.0
	13									
9	13	S-8	14' - 16'	33	0.9-ft.	12.6'	0.0	Gray cmf ⁽⁺⁾ SAND, some cmf subrounded Gravel, saturated, no odors.		
	16								12.6'	0.0
	17									
16	19	Bottom of Boring @ 16.0-feet BGS								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-11
Native soil encountered @ 2.8-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. **BORING LOCATION**
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) **GROUND SURFACE ELEVATION** **DATUM**
LABELLA REPRESENTATIVE: C. Stiles **START DATE** 07-Nov-06 **END DATE** 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	2	S-1	0' - 2'	4	1.3-ft.	0.0'	Topsoil	0.0	
	2						Brown f SAND, little(-) Silt, trace f subrounded Gravel, organics present (roots, root traces, humus, etc.), damp, no odors.	0.0	
	2								
2	4	S-2	2' - 4'	9	1.3-ft.	0.2'	Fill Material	0.0	
	6						Tan m ⁽⁺⁾ SAND, moist, no odors.	0.0	
	5						Dark brown cmf SAND, some(-) mg angular to subangular Gravel (Incl. Cinders with trace Ash), moist to damp, no odors.	0.0	
3	4	S-3	4' - 6'	5	1.0-ft.	2.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.0	
	4						Tan m ⁽⁺⁾ SAND, moist to damp, no odors.	0.0	
	3						.... Grades To		
4	2	S-4	6' - 8'	26	1.4-ft.	6.0'	Gray m ⁽⁺⁾ SAND, damp, no odors with interval of Gray f-vf SAND, trace Silt from 4.8 to 4.9-ft. BGS.	0.0	
	5						As above, saturated, no odors.	0.0	
	9						Gray cmf SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.0	
5	6	S-5	8' - 10'	13	0.0-ft.	8.0'	Gray m ⁽⁺⁾ SAND thin Peat layer (~0.01-ft. thick) @ 8.9-ft., saturated, no odors.	0.0	
	7							0.0	
	9								
6	5	S-6	10' - 12'	15	1.2-ft.	10.0'	As above, saturated, no odors.	0.0	
	6						.... Grades To	0.0	
	9								
7	12	S-7	12' - 14'	20	1.0-ft.	12.9'	Gray f SAND, saturated, no odors.	0.0	
	10						Gray cmf SAND, little(-) f subrounded Gravel, saturated, no odors.	0.0	
	10						Gray f SAND with 1-piece of course subrounded Gravel @ 14.7-feet, saturated, no odors.	0.0	
8	7	S-8	14' - 16'	22	1.2-ft.	13.2'		0.0	
	1							0.0	
	12							0.0	

Bottom of Boring @ 16.0-foot BGS

LEGEND

S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-12
Native soil encountered between 1.3 and 2.0-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 08-Nov-06 END DATE 08-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
37						Fill Material	0.3	
7	S-1	0' - 2'	21	1.5-ft.	0.0'	Asphalt Pavement - Not sampled.		
14					0.5'	Gray cmf angular GRAVEL, some(+) cmf Sand, moist, no odors.	0.6	
7					0.9'	Brown mf ⁽⁺⁾ SAND, some mf subangular Gravel (Incl. Foundry sand, w/ trace Ash and Cinders), moist, no odors.	0.2	
5	S-2	2' - 4'	6	1.2-ft.	2.0'	Fill Material Containing Slag Black and dark brown cmf SAND, little(+) mf ⁽⁺⁾ angular Gravel (Incl. Cinders, Ash and Slag), moist, no odors.	0.1	
4								
2								
6	S-3	4' - 6'	16	1.1-ft.	2.3'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown mf ⁽⁺⁾ SAND, moist to damp, no odors.	0.1	
8					3.2'	Dark brown SILT, little(+) Peat, little f-vf Sand, wet, no odors.		
8					4.0'	Gray cm ⁽⁺⁾ f SAND and cmf subrounded to subangular GRAVEL, wet to saturated @ ~7.0-ft., no odors.		
6	S-4	6' - 8'	14	1.3-ft.	6.0'	As above, saturated, no odors.	0.0	
8								
6								
10	S-5	8' - 10'	39	1.0-ft.	8.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0	
7								
18								
21	S-6	10' - 12'	44	1.1-ft.	10.0'	No Recovery	Not Available	
25								
17								
21	S-7	12' - 14'	77	1.3-ft.	12.0'	Gray cm ⁽⁺⁾ SAND and cmf subrounded GRAVEL, saturated, no odors.	0.0	
23								
30								
15	S-8	14' - 16'	24	0.9-ft.	14.0'	Gray cm ⁽⁺⁾ SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.0	
37								
40								
42								
10								
11								
13								
5						Bottom of Boring @ 16.0-feet BGS	0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-13
Native soil encountered @ 2.3-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-26**

SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 06-Nov-06 END DATE 06-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	68	S-1	0' - 2'	48	1.4-ft	Fill Material		1.9
0.5'	26					Asphalt Pavement - Not sampled.		0.8
0.5'	22					Gray cm ⁽⁺⁾ f angular to subangular GRAVEL, some(+) cmf Sand, slightly moist, no odors.		
1.0'	20	S-2	2' - 4'	5	1.4-ft	Fill Material Containing Slag		0.3
1.0'	8					White crystalline Slag.		
2.0'	2					Fill Material		0.2
2.0'	3	S-3	4' - 6'	9	1.5-ft.	Deep brown m ⁽⁺⁾ f SAND (Foundry Sand), moist to damp, no odors.		
2.9'	8					Fill Material Containing Slag		0.1
2.9'	12					Brown m ⁽⁺⁾ f SAND, little (-) mf angular Gravel, (Incl. blue green Slag), damp to wet, no odors.		0.1
4.0'	6	S-4	6' - 8'	2	1.2-ft.	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits		
4.0'	3					Gray SILT, little(-) vf Sand, wet, no odors.		0.1
6.0'	1					Gray SILT & CLAY, wet, no odors.		
6.3'	1	S-5	8' - 10'	22	0.9-ft.	PEAT, saturated, no odors.		0.0
6.9'	2					Gray mf SAND, saturated, no odors.		
8.0'	6					Gray cm ⁽⁺⁾ f SAND, some(+) cmf subrounded Gravel, saturated, no odors.		0.2
8.7'	11	S-6	10' - 12'	6	0.5-ft.	Gray m ⁽⁺⁾ f SAND, saturated, no odors.		
10.0'	11					As above, saturated, no odors.		0.1
10.0'	3					.... Grades To		
12.0'	3	S-7	12' - 14'	19	1.2-ft.	Gray f SAND, trace Silt, saturated, no odors.		
12.0'	8					Gray m ⁽⁺⁾ f SAND, saturated, no odors.		0.0
12.7'	8					Gray mf SAND, some(+) mf subrounded Gravel, saturated, no odors.		
14.0'	11	S-8	14' - 16'	10	1.3-ft.	Gray mf ⁽⁺⁾ SAND, saturated, no odors.		0.0
14.0'	6					.... Grades To		
14.0'	4					Gray vf SAND, trace(-) Silt, saturated, no odors.		0.1
16.0'	6					Bottom of Boring @ 16.0-feet BGS		

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-14
Native soil encountered between 3.5 & 4.0-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-27**
SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	1	S-1	0' - 2'	6	1.4-ft	0.0'	Topsoil Brown f SAND, trace(+) Silt, organics present (roots, root traces, humus), damp to wet, no odors.	0.0	
	2								
	4								
2	9	S-2	2' - 4'	21	1.4-ft	0.6'	Fill Material Containing Slag Grayish-brown cmf(+) SAND, little mf angular Gravel, trace Silt (Incl. Slag, Ash and Cinders), damp, no odors.	2.7	
	11								
	12								
3	9	S-3	4' - 6'	21	1.5-ft.	2.0'	As above, damp, no odors.	5.7	
	12								
	13								
4	3	S-4	6' - 8'	31	1.2-ft.	4.0'	As above, damp, no odors.	2.7	
	13								
	8								
5	5	S-5	8' - 10'	25	0.2-ft.	6.0'	As above, but also includes Ash, damp, no odors.	7.2	
	9								
	12								
6	12	S-6	10' - 12'	18	0.2-ft.	6.6'	Fill Material Gray cmf angular GRAVEL, some cmf Sand, damp, no odors.	15.9	
	19								
	20								
7	11	S-7	12' - 14'	18	0.5-ft.	8.0'	Fill Material Containing Slag Gray and greenish-gray cmf angular GRAVEL, little(+) cmf Sand (All Gray and greenish-gray Slag), saturated, no odors.	3.1	
	15								
	10								
8	4	S-8	14' - 16'	17	1.1-ft.	10.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Black f SAND, some Silt, little(-) Peat, saturated, H ₂ S odor.	1.6	
	4								
	8								
9	8	S-7	12' - 14'	18	0.5-ft.	12.0'	Black mf SAND, some(-) cmf subrounded Gravel, saturated, H ₂ S odor.	2.2	
	10								
	13								
10	7	S-8	14' - 16'	17	1.1-ft.	14.0'	As above, saturated, no odors. Grades To Gray cmf SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.9	
	8								
	10								
11	7	S-8	14' - 16'	17	1.1-ft.	14.0'	As above, saturated, no odors. Grades To Gray cmf SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.3	
	8								
	10								
12	10	S-8	14' - 16'	17	1.1-ft.	14.0'	As above, saturated, no odors. Grades To Gray cmf SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.3	
	10								
	10								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-15
Native soil encountered between 8.2 & 10.0-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-28**

SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 08-Nov-06 END DATE 08-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	2	S-1	0' - 2'	12	1.2-ft	0.0'	Topsoil Brown f SAND, little(+) Clayey Silt, organics present (roots, root traces, humus), damp, no odors.	0.1	
	3								
	9								
2	10	S-2	2' - 4'	23	1.4-ft	0.6'	Fill Material Containing Slag Dark brown to black cmf ⁽⁺⁾ SAND, some mf angular to subangular Gravel (Incl. Cinders with little Slag), damp, no odors.	0.9	
	11								
	12								
3	12	S-3	4' - 6'	23	1.4-ft	2.0'	Gray to brown cmf ⁽⁺⁾ SAND, little(+) mf angular to subangular Gravel, trace Silt (Incl. Cinders, Ash and Slag), damp, no odors.	0.2	
	11								
	12								
4	11	S-4	6' - 8'	21	1.0-ft.	4.0'	Brick red, white and gray cmf ⁽⁺⁾ SAND, some mf subangular to angular Gravel, trace Silt (Incl. red, white & gray Slag, Foundry Sand, Cinders and Ash), damp to wet, no odors.	2.1	
	10								
	13								
5	27	S-5	8' - 10'	10	0.2-ft.	8.0'	As above but gray in color with gray Slag only, saturated, no odors.	0.4	
	72								
	13								
6	8	S-6	10' - 12'	6	0.4-ft.	10.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Black SILT, little f-vf Sand, little Peat, saturated, very strong H ₂ S odor.	0.8	
	7								
	11								
7	11	S-7	12' - 14'	13	0.0-ft.	12.0'	No recovery	0.5	Not Available
	5								
	7								
8	6	S-8	14' - 16'	15	0.4-ft.	14.0'	Gray mf SAND, saturated, no odors.	0.3	
	6								
	7								
9	1	<i>Bottom of Boring @ 16.0-foot BGS</i>							
	6								
	7								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-16
Native soil encountered between 8.2 & 10.0-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-29**
SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES				
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)								
0.0'	1	S-1	0' - 2'	3	1.2-ft	0.0'	Topsoil Brown f SAND, little Clayey Silt, trace(-) f Gravel, organics present (roots, root traces, humus), damp, no odors.	0.0					
0.3'	1						Fill Material Containing Slag	0.3					
0.6'	2						Dark grayish-brown cmf SAND, little mf ⁽⁺⁾ angular to subangular Gravel (Incl. Cinders, Asphalt, Ash and trace Slag), damp, no odors.	0.6					
1.2'	2	S-2	2' - 4'	21	1.4-ft	2.3'	Blue-green cmf angular GRAVEL and cmf ⁽⁺⁾ SAND (Mostly blue-green Slag), damp, no odors.	1.2					
2.6'	4					Brick red cmf SAND, some mf angular to subangular Gravel (Incl. Foundry Sand w/ trace Slag), damp to wet, no odors.	2.6						
3.0'	10					S-3	4' - 6'	34		1.4-ft	4.0'	Blue-green cmf angular GRAVEL and cmf ⁽⁺⁾ SAND (Mostly blue-green Slag), wet, no odors.	1.5
4.0'	11										Greenish-gray cmf angular GRAVEL and cmf SAND (Mostly blue-green and gray Slag), wet, no odors.	0.6	
4.6'	4	S-4	6' - 8'	14	0.3-ft.	6.0'	As above, saturated, no odors.	8.4					
5.0'	10					S-5	8' - 10'	10		0.5-ft.	8.2'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Black f SAND, some(-) Clayey Silt, saturated, strong H ₂ S and weathered petroleum odor	
5.6'	11										Black mf SAND, some mf subrounded Gravel, saturated, moderate H ₂ S odor.	0.9	
6.2'	3	S-6	10' - 12'	5	0.9-ft.	10.0'	Gray mf SANDS, saturated, no odors.	0.0					
6.8'	6					.... Grades To	0.0					
7.4'	10					Gray mf SAND, saturated, no odors.	0.0						
8.0'	3	S-7	12' - 14'	16	1.2-ft	12.0'	Gray cm ⁽⁺⁾ f SAND and mf subrounded GRAVEL, saturated, no odors.	0.0					
8.6'	6					S-8	14' - 16'	15		0.5-ft.	14.0'	Gray mf ⁽⁺⁾ SAND, little mf ⁽⁺⁾ subrounded Gravel, saturated, no odors.	0.0
9.2'	10										Bottom of Boring @ 16.0-foot BGS		

LEGEND
S - SPLIT SPOON SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-17
Native soil encountered @ 8.2-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
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PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-30**
SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 07-Nov-06 END DATE 07-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	1	S-1	0' - 2'	4	1.1-ft	0.0'	Topsoil Brown f SAND, little(-) Silt, trace(+) mf subrounded Gravel, organics present (roots, root traces, humus), damp, no odors.	0.0	
2	2					0.4'	Fill Material Gray mf angular GRAVEL and cmf SAND, damp, no odors.	0.0	
7	7					0.5'	Brown cmf SAND, some mf(+) angular to subangular Gravel (Incl. Foundry Sand), damp, no odors.	0.0	
3	13	S-2	2' - 4'	23	1.6-ft	2.6'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Black cmf(+) SAND, some f subrounded GRAVEL, damp, no odors.	0.0	
10	10					2.7'	Gray to brown SILT, damp, no odors.	0.0	
10	10					3.2'	Gray to brownish-gray mf(+) SAND with fragments of a red sandstone Cobble @ 4.0-ft., damp to wet, no odors.	0.0	
4	5	S-3	4' - 6'	11	1.1-ft	6.0'	Gray Clayey SILT, trace(+) f Sand, trace f subrounded Gravel, trace(-) Peat, wet to saturated @ ~6.5', no odors.	0.0	
7	7								
4	4								
6	8	S-4	6' - 8'	6	1.3-ft.	8.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
9	9					8.7'	Gray mf(+) SAND, little(+) mf subrounded Gravel, saturated, no odors.	0.0	
3	3								
8	4	S-5	8' - 10'	9	0.8-ft.	10.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
1	1								
2	2								
9	7	S-6	10' - 12'	10	0.7-ft.	12.4'	Dark grayish-brown SILT & CLAY, little Peat, saturated, no odors.	0.0	
10	9					12.5'	Gray cmf SAND, some(+) mf subrounded Gravel, saturated, no odors.	0.0	
5	5								
11	5	S-7	12' - 14'	37	1.3-ft.	14.0'	Gray mf(+) SAND, saturated, no odors.	0.0	
12	15					14.5'	Gray cmf(+) SAND, little mf subrounded Gravel, saturated, no odors.	0.0	
13	17								
14	20	S-8	14' - 16'	4	0.9-ft.				
11	11								
1	1								
15	3								
16	4								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-18
Native soil encountered @ 2.6-ft.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-31**

SHEET 1 OF 1
JOB # 206377 Phase 2
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 06-Nov-06 END DATE 06-Nov-06

TYPE OF DRILL RIG:	CME Model 75 Truck-mounted Rotary Drill Rig	WATER LEVEL DATA				
		DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE	4.25-Inch ID					
OVERBURDEN SAMPLING METHOD	2" x 2' Split-spoon w/140# Hammer					
ROCK DRILLING METHOD	Not Applicable					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	57	S-1	0' - 2'	50	1.3-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled.	0.0	
	25					0.5'		0.1	
	25								
2	30	S-2	2' - 4'	19	0.9-ft.	1.0'	Fill Material Containing Slag White crystalline Slag.	0.2	
	11					2.0'			
	8								
3	8	S-3	4' - 6'	20	0.8-ft.	4.0'	Dark brown m ⁽⁺⁾ SAND, little mf angular to subangular Gravel, trace Silt (Incl. blue-green Slag and Ash), wet, moderate H ₂ S odor.	0.3	
	4								
	13								
4	7	S-4	6' - 8'	16	0.7-ft.	6.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Dark grayish-brown cmf SAND, saturated, moderate H ₂ S odor. Grades To	0.2	
	11								
	8								
5	3	S-5	8' - 10'	6	0.2-ft.	8.0'	Grayish-brown vf SAND, (incl. Wood with no saw marks or creosote odor), saturated, slight H ₂ S odor.	0.2	
	3								
	3								
6	3	S-6	10' - 12'	13	0.7-ft.	10.0'	Gray m ⁽⁺⁾ SAND, saturated, no odors. Grades To	0.4	
	3								
	10								
7	10	S-7	12' - 14'	5	1.0-ft.	12.0'	Gray mf SAND, saturated, no odors. Grades To	0.3	
	7								
	3								
8	2	S-8	14' - 16'	3	1.2-ft.	14.8'	Gray f-vf SAND, saturated, no odors. Gray SILT & CLAY, trace(+) vf Sand w/ thin interbeds of PEAT (<0.03-ft. thick), saturated, no odors.	0.1	
	7								
	1								
15	1							0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

Bottom of Boring @ 16.0-feet BGS
NOTES: Originally logged as boring PB-19
Native soil encountered between 4.8 & 6.0-ft. BGS.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	50	S-1	0' - 2'	34	1.1-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled.	0.4	
0.5'	22					Gray cmf angular GRAVEL, some(+) cmf ⁽⁺⁾ Sand, moist, no odors.	0.3		
1.3'	12					Tan and black cmf SAND, trace(+) f subangular Gravel (Incl. Bottom Ash & Cinders), moist to damp, no odors.	0.1		
2.0'	9	S-2	2' - 4'	17	1.3-ft.	2.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Tan f SAND, damp, no odors. Grades To	0.2	
	7					Tan mf SAND, damp, no odors.	Not Available		
	11					No recovery.			
4.0'	6	S-3	4' - 6'	5	0.0-ft.	4.0'	No recovery.		
	8								
	5								
6.0'	3	S-4	6' - 8'	18	1.5-ft.	6.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0	
	2								
	1								
8.0'	4	S-5	8' - 10'	20	1.1-ft.	8.0'	Gray cmf subrounded GRAVEL and cm ⁽⁺⁾ f SAND, saturated, no odors.	0.2	
8.5'	7					Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.0		
8.9'	11					Gray mf SAND, some(+) mf subrounded Gravel, saturated, no odors.			
10.0'	12	S-6	10' - 12'	17	1.2-ft.	10.0'	Gray mf SAND, saturated, no odors. Grades To	0.0	
	8					Gray mf SAND, saturated, no odors.	0.0		
	9								
12.0'	1	S-7	12' - 14'	13	1.3-ft.	12.0'	As above, saturated, no odors.	0.0	
	4								
	9								
14.0'	2	S-8	14' - 16'	5	0.0-ft.	14.0'	No recovery	Not Available	
	3								
	2								

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p><i>Bottom of Boring @ 16.0-feet BGS</i> NOTES: Originally logged as boring PB-20 Native soil encountered between 1.1 & 2.0-ft. BGS.</p>
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-33**

SHEET 1 OF 1
JOB # 206377 Phase 2c
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
0.0'	50	S-1	0' - 2'	58	1.3-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled.	0.6	
0.5'	34					Gray cmf angular to subangular GRAVEL, some(+) cmf ⁽⁺⁾ Sand, slightly moist, no odors.	1.9		
1.0'	24					Asphalt Pavement	0.0		
2.0'	10	S-2	2' - 4'	14	1.8-ft.	2.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray Clayey SILT, damp, no odors. Grades To	0.1	
3.0'	6					Gray SILT, damp to wet, no odors.	0.0		
4.0'	7					Gray cmf SAND, little(+) mf ⁽⁺⁾ subrounded Gravel, saturated, no odors.	0.0		
6.0'	8	S-3	4' - 6'	16	0.3-ft.	6.0'	Gray cmf subrounded to subangular GRAVEL and cmf SAND, saturated, no odors.	0.0	
8.0'	2					Gray mf ⁽⁺⁾ SAND, some(+) cmf subrounded Gravel, saturated, no odors.	0.0		
10.0'	8					Gray mf ⁽⁺⁾ SAND with 1 piece of c subround Gravel @ 10.7-ft., saturated, no odor	0.0		
11.4'	10	S-4	6' - 8'	25	1.0-ft.	11.4'	Gray mf ⁽⁺⁾ SAND, trace(+) f subrounded Gravel, saturated, no odor	0.0	
12.0'	8					Gray mf ⁽⁺⁾ SAND, trace Clayey Silt, saturated, no odor	0.0		
12.3'	12					Gray mf ⁽⁺⁾ SAND, some mf subrounded Gravel, saturated, no odor	0.0		
13.3'	13	S-5	8' - 10'	15	1.1-ft.	13.3'	Gray mf SAND, saturated, no odor	0.1	
14.0'	1					Gray SILT, trace vf Sand, saturated, no odors.	0.0		
14.0'	1					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
15.4'	3	S-6	10' - 12'	24	1.6-ft.	15.4'	Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odor	0.0	
16.0'	6					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
16.0'	18					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
17.0'	19	S-7	12' - 14'	16	1.5-ft.	17.0'	Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0	
18.0'	1					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
18.0'	8					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
19.0'	8	S-8	14' - 16'	9	0.8-ft.	19.0'	Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0	
20.0'	1					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		
20.0'	3					Gray mf SAND, trace(+) mf subrounded Gravel, saturated, no odors.	0.0		

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p style="text-align: center;"><i>Bottom of Boring @ 16.0-foot BGS</i></p> <p>NOTES: Originally logged as boring PB-21 Native soil encountered between 1.3 & 2.0-ft. BGS.</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-34**
SHEET 1 OF 1
JOB # 206377 Phase 2c
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
50							Fill Material	0.2	
24	S-1	0' - 2'	59	1.8-ft.	0.0'	Asphalt Pavement - Not sampled.	0.5		
35					0.6'	Gray cm ⁽⁺⁾ f angular to subangular GRAVEL, some(+) cm ⁽⁺⁾ Sand, slightly moist, no odors.			
40					1.0'	Gray cmf SAND, little mf angular to subrounded Gravel, moist, no odors.			
11	S-2	2' - 4'	58	1.5-ft.	1.4'	Concrete	0.2		
20					2.0'	Black f SAND, some Silt, trace(+) mf ⁽⁺⁾ angular to subrounded Gravel, damp, very slight petroleum odor.			
38					2.3'	Gray mf ⁽⁺⁾ SAND, damp, no odors.			
22	S-3	4' - 6'	10	1.3-ft.	3.0'	Fill Material Containing Slag Brown and blue-green cm ⁽⁺⁾ SAND, some cmf angular to subrounded Gravel Incl. Slag, damp, no odors.	0.0		
4									
6									
5	S-4	6' - 8'	7	1.4-ft.	4.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray mf ⁽⁺⁾ SAND, some Clayey Silt, damp, no odors.	0.1		
1					4.1'	Gray SILT, damp to wet, no odors.			
4					6.0'	As above, saturated, no odors.			
3	S-5	8' - 10'	5	1.3-ft.	7.3' Grades To	0.2		
2					7.35'	Gray Clayey SILT, trace Peat, saturated, no odors.			
3						PEAT			
4	S-6	10' - 12'	15	1.2-ft.	8.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.1		
1					8.0'	Gray mf ⁽⁺⁾ SAND with PEAT intervals from 8.1 to 8.4-ft., 8.7 to 8.9' 9.0-ft (~0.02' thick) and 9.2-ft. (~0.04' thick), saturated, no odors.			
5					10.0'	Gray mf ⁽⁺⁾ SAND, trace Peat, saturated, no odors.			
10	S-7	12' - 14'	16	1.0-ft.	12.9' Grades To	0.1		
6						Gray mf ⁽⁺⁾ SAND, saturated, no odor			
6						Gray c ⁽⁺⁾ mf SAND, saturated, no odors.			
10	S-8	14' - 16'	3	1.0-ft.	14.0'	Gray c ⁽⁺⁾ mf SAND, little(-) mf ⁽⁺⁾ subrounded Gravel, saturated, no odors.	0.0		
12						..... Grades To		
1						Gray mf ⁽⁺⁾ SAND, saturated, no odors.			
2									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

Bottom of Boring @ 16.0-feet BGS
NOTES: Originally logged as boring PB-22
Native soil encountered between 3.5 & 4.0-ft. BGS.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
0.0'	9	S-1	0' - 2'	32	1.0-ft.	0.0'	Fill Material Dark gray cmf angular to subangular GRAVEL and cmf SAND (Incl. Milled Asphalt), moist, no odors.	0.0	
0.4'	20					0.4'	Brownish-gray cmf SAND, some(-) f subangular Gravel, moist, no odors.	9.4	
0.6'	12					Fill Material Containing Slag Brownish-gray cmf angular to subangular GRAVEL, some(+) cmf Sand (Incl. blue green Slag), moist, no odors.	0.0		
0.6'	12	S-2	2' - 4'	18	1.5-ft.	0.6'	Fill Material Brown to dark gray cmf SAND and mf ⁽⁺⁾ angular to subangular Gravel (Incl. Cinders w/trace Ash & Asphalt), moist to damp, no odors.	0.1	
2.0'	9					Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Light brown SILT, wet to saturated @ ~4.9-ft., no odors.	0.0		
4.0'	9					4.0'	Dark gray mf ⁽⁺⁾ SAND, saturated, no odors.	0.1	
5.1'	10	S-3	4' - 6'	8	1.2-ft.	5.1'	As above w/PEAT layer (~0.05-ft. thick) @ 7.0', saturated, no odors.	0.1	
6.0'	2					6.0'	Wood (Apparently natural w/ no creosote odor and bark on bottom).	0.2	
9.0'	3					9.0'	Gray mf SAND, saturated, no odors.	0.1	
10.0'	5	S-4	6' - 8'	10	1.3-ft.	10.0'	Gray cm ⁽⁺⁾ f SAND, some(+) to and mf subrounded to subangular GRAVEL, saturated, no odors.	0.3	
12.0'	6					12.0'	Gray mf SAND, saturated, no odor	0.0	
12.0'	5					12.0'	.... Grades To	0.1	
12.0'	7	S-5	8' - 10'	9	1.3-ft.	12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odor	0.1	
12.0'	14					12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odor	0.1	
12.0'	16					12.0'	Gray mf ⁽⁺⁾ SAND, saturated, no odor	0.1	
12.0'	2	S-6	10' - 12'	21	1.1-ft.	12.0'	Bottom of Boring @ 14.0-foot BGS Due to Running Sand		
12.0'	7								
12.0'	14								
12.0'	9	S-7	12' - 14'	44	1.6-ft.	12.0'			
12.0'	20								
12.0'	24								
12.0'	27								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-23
 10-ft. of running sand in augers when attempting to sample the 14 to 16-ft. interval.
 Native soil encountered between 3.5 & 4.0-ft. BGS.

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekorp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 09-Nov-06 END DATE 09-Nov-06

TYPE OF DRILL RIG:		WATER LEVEL DATA	
CME Model 75 Truck-mounted Rotary Drill Rig		DATE	TIME
AUGER SIZE AND TYPE	4.25-Inch ID	WATER	CASING
OVERBURDEN SAMPLING METHOD	2" x 2' Split-spoon w/140# Hammer		REMARKS
ROCK DRILLING METHOD	Not Applicable		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)					RECOVERY (FEET)
1	10	S-1	0' - 2'	24	1.5-ft.	0.0'	2.1	
	11							
	13							
2	16	S-2	2' - 4'	13	1.3-ft.	0.3'	0.0	
	7							
3	7	S-3	4' - 6'	12	1.5-ft.	2.0'	0.0	
	6							
4	8	S-4	6' - 8'	10	1.4-ft.	3.25'	0.0	
	4							
5	7	S-5	8' - 10'	21	1.2-ft.		0.0	
	5							
6	4	S-6	10' - 12'	21	1.0-ft.		0.0	
	3							
7	3	S-7	12' - 14'	17	1.1-ft.		0.0	
	7							
8	9	S-8	14' - 16'	5	1.4-ft.		0.0	
	13							
9	11	S-8	14' - 16'	5	1.4-ft.		0.0	
	10							
10	11	S-8	14' - 16'	5	1.4-ft.		0.0	
	1							
11	11	S-8	14' - 16'	5	1.4-ft.		0.0	
	10							
12	11	S-8	14' - 16'	5	1.4-ft.		0.0	
	1							
13	1	S-8	14' - 16'	5	1.4-ft.		0.0	
	16							
14	16	S-8	14' - 16'	5	1.4-ft.		0.0	
	2							
15	2	S-8	14' - 16'	5	1.4-ft.		0.0	
	3							
16	3	S-8	14' - 16'	5	1.4-ft.		0.0	
	4							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

Bottom of Boring @ 16.0-feet BGS
NOTES: Originally logged as boring PB-24
Native soil encountered between 3.3 & 4.0-ft. BGS.

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
 DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
 ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)				
1	1	S-1	0' - 2'	7	1.5-ft.	0.0'	Dark brown f SAND, little Silt, trace f subrounded Gravel, organics present (roots, root traces, humus), damp, no odors.	0.1	
	2								
	5								
2	6	S-2	2' - 4'	14	1.2-ft.	0.5'	Brown mf(+) SAND, little Silt, little mf angular Gravel (Incl. <3% Slag), damp, no odors.	0.0	
	5								
	6								
3	8	S-3	4' - 6'	>100	0.3-ft.	4.0'	Blue-green Slag with trace Ash, damp, no odors.	0.1	
	13								
	3.0'								
4	9	S-4	6' - 8'	60	1.7-ft.	6.0'	All blue-green SLAG (~90%) and Ash (~10%), partially fused, wet, no odors.	3.2	
	100/5"								
5	15	S-5	8' - 10'	16	0.4-ft.	8.0'	All ASH (~60%) and gray SLAG (~40%), partially fused, saturated, no odors.	0.2	
	33								
	27								
6	30	S-6	10' - 12'	>108	0.5-ft.	10.0'	As above, saturated, no odors.	0.4	
	8								
	7								
7	7	S-7	12' - 14'	26	1.0-ft.	12.0'	Greenish-gray to gray cmf angular GRAVEL, some cmf Sand (All greenish-gray at gray Slag), saturated, H ₂ S odor.	0.1	
	9								
	12								
8	7	S-8	14' - 16'	20	0.6-ft.	14.0'	As above, saturated, H ₂ S odor.	0.9	
	13								
	14								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

See Page 2 of 2
 NOTES: Native soil encountered @ 18.55-ft. BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-37**
SHEET 2 OF 2
JOB # 206377 Pha
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG:		WATER LEVEL DATA		
DATE	TIME	WATER	CASING	REMARKS
CME Model 75 Truck-mounted Rotary Drill Rig				
AUGER SIZE AND TYPE 4.25-Inch ID				
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer				
ROCK DRILLING METHOD Not Applicable				

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	7	S-9	16' - 18'	20	0.7-ft.	16.0'	Fill Material Containing Slag Greenish-gray to gray cmf angular GRAVEL, some cmf Sand (All greenish-gray gray Slag), saturated, slight H ₂ S odor.	0.3	
	7								
	13								
18	5	S-10	18' - 20'	11	0.6-ft.	18.0'	As above, saturated, strong H ₂ S odor. Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.1	
	6								
	5								
19	6	S-11	20' - 22'	4	0.8-ft.	20.0'	As above, saturated, no odors.	0.0	
	5								
	3								
20	2					20.6'	Brown vf SAND and Clayey SILT, saturated, no odors.		
21	2					20.7'	PEAT, saturated, no odors.		
22	2						<i>Bottom of Boring @ 22.0-feet BGS</i>		
23									
24									
25									
26									
27									
28									
29									
30									
31									

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER: Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE: 4.25-Inch ID
OVERBURDEN SAMPLING METHOD: 2" x 2" Split-spoon w/140# Hammer
ROCK DRILLING METHOD: Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES		
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE / RQD(%)	RECOVERY (FEET)						
1	50	S-1	0' - 2'	68	1.5-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled	0.9			
	46					0.5'				Gray cmf angular GRAVEL and cmf ⁽⁺⁾ Sand, moist, no odors.	0.4
	22										
2	14	S-2	2' - 4'	18	1.6-ft.	1.2'	Fill Material Containing Slag Brown cmf ⁽⁺⁾ SAND, little Silt, little mf subangular to angular Gravel (Incl. Bottom Ash, w/ trace(-) Slag), moist, no odors.	0.1			
	9					2.0'				Dark brown to brown SILT, trace vf Sand (Incl. trace Asphalt and trace(-) Ash and Slag), damp, no odors.	0.0
	9										
3	9	S-3	4' - 6'	18	<0.1-ft.	4.0'	Dark brown to black mf ⁽⁺⁾ SAND and mf angular GRAVEL (Incl. Ash w/ black metallic Slag), damp, no odors.	0.0			
	4										
	11										
4	7	S-4	6' - 8'	52	1.1-ft.	6.0'	Tan, gray and white cmf subangular to angular GRAVEL, some cmf ⁽⁺⁾ Sand, little(-) Silt (Approx. 50% Ash and 50% gray and white Slag), damp, no odors.	2.8			
	9										
	20										
5	30	S-5	8' - 10'	28	1.1-ft.	8.0'	Gray cmf angular GRAVEL, some(+) cmf Sand, trace Silt (Approx. 85% gray Slag, 1% blue-green Slag, and 14% Ash), saturated, no odors.	0.3			
	20										
	10										
6	10	S-6	10' - 12'	21	0.4-ft.	10.0'	Gray cmf angular GRAVEL, little(+) cm Sand, (All gray Slag), saturated, no odor.	0.0			
	18										
	20										
7	5	S-7	12' - 14'	35	0.5-ft.	12.0'	As above, saturated, no odors.	0.1			
	16										
	25										
8	10	S-8	14' - 16'	5	0.0-ft.	14.0'	No Recovery.	Not Available			
	2										
	3										
16	4										

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

See Page 2 of 2
NOTES: Native soil encountered between 12.5 & 16.0-ft. BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-38**
SHEET 2 OF 2
JOB # 206377 Pha
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	6	S-9	16' - 18'	14	0.7-ft.	16.0'	Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Grayish-brown to brownish-gray f-vf SAND, little Silt, saturated, no odors	0.0	
18	9								
19	5								
20	3								
18	<i>Bottom of Boring @ 18.0-feet BGS</i>								
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
0.0'	50	S-1	0' - 2'	57	1.4-ft.	0.0'	Fill Material Asphalt Pavement - Not sampled	0.1		
0.5'	39					0.5'		Gray cmf angular GRAVEL and cmf ⁽⁺⁾ Sand, moist, no odors.		4.5
1.1'	18					Fill Material Containing Slag Brown and gray SILT, some cmf ⁽⁺⁾ Sand, little mf ⁽⁺⁾ angular Gravel (Incl. Foundry Sand w/ trace Slag), damp, no odors.		0.1		
1.6-ft.	10	S-2	2' - 4'	10	2.0'	Brown cmf ⁽⁺⁾ SAND, little(+) Silt, little mf ⁽⁺⁾ angular Gravel (Incl. trace(+) Foundry Sand and trace Slag), damp, no odors.	0.0			
2.0'	7				2.0'		Brown cmf ⁽⁺⁾ SAND, little mf angular to subangular Gravel (Approx. 80% Foundry Sand and 20% white, gray and rust brown Slag), damp, no odors.		7.6	
4.0'	5				4.0'		Brown cmf ⁽⁺⁾ SAND, little(-) mf ⁽⁺⁾ angular to subangular Gravel (Approx. 60% Foundry Sand, 15% Slag and 25% Ash), wet, no odors.		0.1	
1.7-ft.	5	S-3	4' - 6'	21	6.0'	Gray cmf angular GRAVEL, some cm Sand, trace Silt (All gray Slag), saturated, no odors.	0.5			
2.0'	7				6.0'		As above, saturated, no odors.		1.4	
4.0'	11				8.0'		As above, saturated, slight H ₂ S odor.		0.5	
0.7-ft.	4	S-4	6' - 8'	8	10.0'	As above, saturated, very slight H ₂ S odor.	0.9			
0.8-ft.	4				10.0'		As above, saturated, no odors.		1.4	
1.0-ft.	7				12.0'		As above, saturated, slight H ₂ S odor.		0.5	
0.8-ft.	28	S-5	8' - 10'	34	14.0'	As above, saturated, very slight H ₂ S odor.	0.9			
0.5-ft.	25				14.0'		As above, saturated, no odors.		1.4	
0.5-ft.	9				16.0'		As above, saturated, slight H ₂ S odor.		0.5	
0.6-ft.	10	S-6	10' - 12'	15	18.0'	As above, saturated, very slight H ₂ S odor.	0.9			
0.5-ft.	7				18.0'		As above, saturated, no odors.		1.4	
0.5-ft.	9				20.0'		As above, saturated, slight H ₂ S odor.		0.5	
0.6-ft.	12	S-7	12' - 14'	25	22.0'	As above, saturated, very slight H ₂ S odor.	0.9			
0.6-ft.	11				22.0'		As above, saturated, no odors.		1.4	
0.6-ft.	9				24.0'		As above, saturated, slight H ₂ S odor.		0.5	
1.0-ft.	12	S-8	14' - 16'	27	26.0'	As above, saturated, very slight H ₂ S odor.	0.9			
1.0-ft.	15				26.0'		As above, saturated, no odors.		1.4	
1.0-ft.	17				28.0'		As above, saturated, slight H ₂ S odor.		0.5	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

See Page 2 of 2
NOTES: Native soil encountered between 16.2 & 18.0-ft. BGS
Monitoring well MW-BS39 installed within borehole BS-39

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation
Proposed Port Marina: Port of Rochester
Rochester, New York

BORING **BS-39**
SHEET 2 OF 2
JOB # 206377 Pha
CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION
DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM
LABELLA REPRESENTATIVE: C. Stiles START DATE 10-Nov-06 END DATE 10-Nov-06

TYPE OF DRILL RIG:		CME Model 75 Truck-mounted Rotary Drill Rig	
AUGER SIZE AND TYPE		4.25-Inch ID	
OVERBURDEN SAMPLING METHOD		2" x 2' Split-spoon w/140# Hammer	
ROCK DRILLING METHOD		Not Applicable	

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	5	S-9	16' - 18'	8	0.2-ft.	16.0'	Fill Material Containing Slag Gray cmf angular GRAVEL, some cm Sand, trace Silt (All gray Slag), saturated, very slight H ₂ S odor. Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits	0.3	
	4								
	4								
18	5	S-10	18' - 20'	2	0.8-ft.	18.0'	PEAT, saturated, no odors.	0.2	
	1								
19	1								
	1								
20	3						Bottom of Boring @ 20.0-feet BGS		
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-1

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 0726 TO 0755
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.4-ft.	0.0-ft.	<p>FILL MATERIAL Gray cmf angular Gravel and cmf SAND, moist, no odors.</p> <p>0.9-ft. Gray Clayey SILT, little(+) cmf Sand, little mf angular to subrounded Gravel, damp, no odors.</p> <p>1.4-ft. Dark gray to black Clayey SILT, little(+) cmf angular to subrounded Gravel, little cmf Sand (Incl. Cinders), damp, no odors.</p>	1.3	
2			4.0-ft.		0.0	
4			4.0-ft.		0.7	
4	S-2 4' - 8'	3.4-ft	4.0-ft.	<p>As above, damp to wet, very slight to slight diesel/fuel oil odor.</p> <p>BACKBEACH MARSH DEPOSIT Dark gray SILT & CLAY, wet to saturated @ -6.0-ft., no odors.</p> <p>..... Grades To</p> <p>Gray SILT, saturated, no odors.</p>	4.4	
6			5.8-ft.		18.0	
8	S-3 8' - 12'	2.4-ft.	8.0-ft.	Brown Clayey SILT, saturated, no odors.	0.9	
10					0.0	
12	S-4 12' - 16'		Bottom of Boring @ 12.0-feet BGS			
14				0.0		
16				0.0		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: Well MW-1-2006 constructed within borehole TB-2006-1.
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 6.0-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	

BORING: TB-2006-1

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-2

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 0758 TO 0835
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Truck~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0' to 4'	3.0-ft.	0.0-ft.	<p align="center">FILL MATERIAL</p> Grayish-brown cmf angular GRAVEL, some(+) cmf(+) Sand, moist, no odors. Gray to black Clayey SILT, little(+) mf Sand, trace f angular Gravel, damp, no odors. Black cmf SAND, some(-) Silt & Clay, little mf subangular Gravel (Incl. Cinders w/ little Slag), damp, no odors. Dark gray to black Clayey SILT, little(+) cmf angular to subrounded Gravel, little cmf Sand (Incl. Cinders), damp, no odors. <p align="center">BACKBEACH MARSH DEPOSIT</p> Brown Clayey SILT, trace(+) vf Sand, damp, no odors.	0.0		
			0.4-ft.		0.4		
2			1.4-ft.		1.0		
			2.1-ft.				
4	S-2 4' - 8'	3.5-ft	4.0-ft.	Brown Clayey SILT, trace(-) vf Sand, damp to wet, no odors. Grades To Brown SILT & CLAY, wet to saturated @ ~6.0-ft., no odors.	0.6		
					0.3		
6					0.1		
					0.3		
8	S-3 8' - 12'	2.5-ft.	8.0-ft.	As above, saturated, no odors.	0.4		
					0.2		
10					0.0		
					0.0		
12	S-4 12' - 16'		Bottom of Boring @ 12.0-foot BGS				
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 6.0-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-2

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-3

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 0838 TO 0900
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.1-ft.	0.0-ft.	FILL MATERIAL Brown cmf ⁽⁺⁾ SAND. some(-) mf angular Gravel. little(-) Silt & Clav. moist. no odors.	1.7	
2				BACKBEACH MARSH DEPOSIT Brown Clayey SILT, little(-) vf Sand, damp, no odors.	3.2	
4				S-2 4' - 8'	4.0-ft	4.0-ft.	As above, wet, no odors. .... Grades To .... Brown SILT & CLAY, wet to saturated @ ~5.6-ft., no odors.	4.5
6					3.1	
8					2.0	
10					1.0	
12	S-3 8' - 12'	1.5-ft.	8.0-ft.	As above, saturated, no odors.	0.0	
14					0.0	
16						
18	S-4 12' - 16'			Bottom of Boring @ 12.0-feet BGS		

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.6-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-3

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-4

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 0905 TO 0935
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: Track/Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.9-ft.	0.0-ft.	FILL MATERIAL Gray cmf angular Gravel and cmf SAND, moist, no odors. Gray to grayish-brown Clayey SILT, some cmf ⁽⁺⁾ Sand, little cmf angular to sub-angular Gravel, damp, no odors.	5.1	
			0.6-ft.		11.6	
2			3.1-ft.	BACKBEACH MARSH DEPOSIT Brown Clayey SILT, trace(+) vf Sand, damp to wet, no odors.	4.2	
					3.0	
4	S-2 4' - 8'	3.8-ft	4.0-ft.	As above, wet, no odors. Grades To Brownish-gray SILT, trace vf Sand, wet, no odors. Grades To Gray SILT & CLAY, wet to saturated @ ~6.3-ft, no odors.	2.4	
6					1.3	
					0.7	
8	S-3 8' - 12'	3.3-ft.	8.0-ft.	As above, saturated, no odors. Grades To Gray CLAY & SILT, saturated, no odors.	1.0	
10					0.4	
					0.6	
12	S-4 12' - 16'			Bottom of Boring @ 12.0-foot BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				12.0-Ft.	Approx. 6.3-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations

and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%

c = coarse
m = medium
f = fine
vf = very fine

BGS = Below the Ground Surface

NA = Not Applicable

BORING: TB-2006-4

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-5

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 0938 TO ##
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0' to 4'	3.1-ft.	0.0-ft.	<p align="center">TOPSOIL</p> Brown Clayey SILT, little mf ⁽⁺⁾ Sand, trace mf ⁽⁺⁾ subrounded to angular Gravel. . organics present (roots, root traces, humus), moist, no odors. <p align="center">FILL MATERIAL</p> Dark brown cmf SAND, little(-) mf subangular Gravel, damp, no odors. Concrete fragments. Brown cmf SAND, little(+) mf subangular Gravel (Incl. Cinders and Slag), wet, no odors.	0.9		
2			0.5-ft.		2.6-ft.		9.8
			2.9-ft.		9.1		
4	S-2 4' - 8'	3.2-ft	4.0-ft.	<p align="center">BACKBEACH MARSH DEPOSIT</p> Brown to dark gray Clayey SILT to SILT & CLAY, trace(-) vf Sand, wet to saturated @ ~5.4-ft., no odors.	3.2		
6					1.8		
					1.4		
8	S-3 8' - 12'	3.5-ft.	8.0-ft.	As above, saturated, no odors. Grades To Brownish-gray SILT & CLAY, saturated, no odors.	0.4		
10					0.3		
					0.4		
12	S-4 12' - 16'			<p align="center">Bottom of Boring @ 12.0-feet BGS</p>	0.3		
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.4-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TB-2006-5



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-6

SHEET 1 OF 1
JOB: 206474
CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1010 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.7-ft.	0.0-ft. 0.2-ft.	FILL MATERIAL Brown cm ⁽⁺⁾ SAND, moist, no odor Brown Clayey SILT, little(+) cmf angular to subangular Gravel, little cmf Sand, moist to damp, no odors.	0.3	
2					0.6	
4	S-2 4' - 8'	3.9-ft	4.0-ft.	BACKBEACH MARSH DEPOSIT Brown Clayey SILT, trace(-) vf Sand, wet, no odors. Grades To Brown SILT, trace vf Sand, wet to saturated @ ~5.7-ft., no odors. Grades To Brown SILT & CLAY, saturated, no odors.	0.0	
6					0.0	
8	S-3 8' - 12'	3.8-ft.	8.0-ft.	Dark brown SILT & CLAY, little cmf Sand, trace f subangular to subrounded Gravel, saturated, no odors. Gray SILT & CLAY, saturated, no odors. Grades To Gray CLAY & SILT, saturated, no odors.	0.2	
10					0.1	
12	S-4 12' - 16'			Bottom of Boring @ 12.0-feet BGS	0.0	
14					0.0	
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: Well MW-2-2006 constructed within borehole TB-2006-6.
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.7-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-6

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-7

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1102 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~ Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0' to 4'	3.6-ft.	0.0-ft.	FILL MATERIAL Brown mf(+) SAND, little Clayey Silt, little mf angular to subangular Gravel, damp, no odors. Milled asphalt. Brown mf(+) SAND, little Silt & Clay, little mf angular to subangular Gravel, damp, no odors. Dark brown to very dark gray SILT & CLAY, trace(+) cmf Sand, trace(-) f angular Gravel (Asphalt fragments), damp, no odors.	0.3		
2			0.9-ft.		1.1-ft.		0.8
			2.3-ft.				1.7
4							3
4	S-2 4' - 8'	3.0-ft	4.0-ft.	Grayish-brown CLAY & SILT, little cmf Sand, trace(+) mf subangular to angular Gravel, wet to saturated @ ~4.8-ft.	3.2		
6							1.2
6			6.7-ft.	BACKBEACH MARSH DEPOSIT Brown Clayey SILT, trace(-) vf Sand, saturated, no odors.	0.4		
8	S-3 8' - 12'	2.9-ft.	8.0-ft.	Brown SILT & CLAY, saturated, no odors.	0.2		
10							0.0
12							0.1
12	S-4 12' - 16'		Bottom of Boring @ 12.0-foot BGS				
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 4.8-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TB-2006-7



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-8

SHEET 1 OF 1
JOB: 206474
CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1130 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.3-ft.	0.0-ft.	FILL MATERIAL Brown cm ^{f(+)} SAND, little Clavev Silt, little mf angular to subangular Gravel, moist to damp, no odors.	2.2 0.4	
2			1.7-ft.	BACKBEACH MARSH DEPOSIT Brown SILT & CLAY, damp, no odors. Grades To Brown Clayey SILT, damp, no odors.	1.9 2.7	
4	S-2 4' - 8'	3.8-ft	4.0-ft.	Brown SILT, trace vf Sand, wet no odors. Grades To Grayish-brown Clayey SILT, wet to saturated @ ~5.4-ft, no odors.	0.3 0.2	
6					0.9 0.2	
8	S-3 8' - 12'	3.7-ft.	8.0-ft.	As above, saturated, no odors.	0.2 0.1	
10					0.0 0.0	
12	S-4 12' - 16'			Bottom of Boring @ 12.0-foot BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: Well MW-3-2006 constructed within borehole TB-2006-8.
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.4-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - 3) Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-8

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-9

SHEET 1 OF 1
JOB: 206474
CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1218 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Truck~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	3.0-ft.	0.0-ft. 0.6-ft.	<p>FILL MATERIAL Brown and gray cmf angular Gravel and cmf⁽⁺⁾ SAND, moist, no odors. Black cmf SAND, little f angular to subangular Gravel (Incl. Cinders w/ trace Ash & Slag), moist, no odors.</p> <p>LACUSTRINE BEACH DEPOSIT Brown mf⁽⁺⁾ SAND, trace Silt, damp, no odors.</p> <p>BACKBEACH MARSH DEPOSIT Brown Clayey SILT, trace(+) vf Sand, damp, no odors.</p>	0.7	
2			1.5-ft. 2.3-ft.		0.4	
4	S-2 4' - 8'	2.9-ft	4.0-ft.		0.0	
6					0.2	
8	S-3 8' - 12'	3.4-ft.	8.0-ft.	Gray grading to brown SILT & CLAY, trace(-) vf Sand, wet to saturated @ ~5.6-ft., no odors.	0.0	
10				0.0		
12	S-4 12' - 16'			Bottom of Boring @ 12.0-foot BGS	0.0	
14					0.0	
16					0.0	
18					0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				12.0-Ft.	Approx. 5.6-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - 3) Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-9



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-10

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental	BORING LOCATION:	TIME: 1245 TO ###
DRILLER: Paul Wiley	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles	START DATE: 27-Sep-06	END DATE: 27-Sep-06

TYPE OF DRILL RIG: Truck/Track Mounted Geoprobe Model 5400LT	DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0' to 4'	4.0-ft.	0.0-ft.	<u>FILL MATERIAL</u> Brown mf SAND, some(-) cmf angular Gravel, moist, no odors. Brown mf(+) SAND, trace mf angular to subangular Gravel, moist, no odors.	0.0		
			0.4-ft.				0.2
2			1.9-ft.	Grav to black cm(+)f SAND, little(+) mf angular Gravel (Incl. Asphalt & Cinders), moist, no odors	0.0		
			3.7-ft.		0.0		
4	S-2 4' - 8'	3.1-ft	4.0-ft.	Brown mf(+) SAND, trace(-) f subrounded to subangular Gravel, damp, no odors. As above, damp, no odors.	0.0		
			4.8-ft.				0.0
			5.0-ft.	Brown Clayey SILT, damp, no odors. Brown mf(+) SAND, trace(-) f subangular Gravel (Incl. Coal fragments), damp to wet, no odors.	0.0		
6			5.7-ft.		0.0		
				<u>BACKBEACH MARSH DEPOSIT</u> Grayish-brown to brown Clayey SILT, saturated, no odors.			
8	S-3 8' - 12'	3.7-ft.	8.0-ft.	As above, saturated, no odors. Grading To Brown SILT, trace(-) vf Sand, saturated, no odors.	0.0		
							0.0
10					0.0		
					0.0		
12	S-4 12' - 16'			<u>Bottom of Boring @ 12.0-feet BGS</u>			
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.7-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	

BORING: TB-2006-10

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-11

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1320 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: ~~Track~~Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	2.6-ft.	0.0-ft. 0.5-ft.	<p align="center">FILL MATERIAL</p> Brown mf ⁽⁺⁾ SAND, trace(+) ^m angular to subrounded Gravel, moist, no odor Gray to black cmf ⁽⁺⁾ SAND, little(-) ^m angular to subangular Gravel (Incl. Coal fragments, Cinders, and Asphalt), moist, no odors. <p align="center">BACKBEACH MARSH DEPOSIT</p> Brown SILT, little vf Sand, damp, no odors.	0.0	
2			1.4-ft.		0.0	
4	S-2 4' - 8'	3.8-ft	4.0-ft.	Brown SILT and vf SAND, damp, no odors. Grading To Brown Clayey SILT, trace vf Sand, wet, no odors.	0.0	
6					0.0	
8	S-3 8' - 12'	2.6-ft.	8.0-ft.		0.0	
10				As above, saturated, no odors. Grading To Gray SILT & CLAY, saturated, no odors.	0.0	
12	S-4 12' - 16'			Bottom of Boring @ 12.0-foot BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Betw. 3.8 and 4.0-ft.	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - 3) Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-11



Associates, P.C.

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PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-12

SHEET 1 OF 1
JOB: 206474
CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 1353 TO ###
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Sep-06 END DATE: 27-Sep-06

TYPE OF DRILL RIG: Truck/Track Mounted Geoprobe Model 5400LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0' to 4'	2.6-ft.	0.0-ft.	<u>FILL MATERIAL</u> Brown mf SAND, little cmf angular Gravel, moist, no odor Brown to black cmf SAND, some(-) cmf subangular to angular Gravel (Incl. Concrete, Cinders, and Coal fragments), damp to wet, no odors.	0.0	
2			1.5-ft.		0.0	
4	S-2 4' - 8'	3.4-ft	4.0-ft.	<u>BACKBEACH MARSH DEPOSIT</u> Gray to grayish-brown Clayey SILT, trace(-) vf Sand, wet to saturated @ ~5.2-ft, no odors.	0.0	
6			0.0			
8	S-3 8' - 12'	3.1-ft.	8.0-ft.	Gray Clayey SILT to SILT & CLAY w/ 0.02-ft. thick layer of Peat @ ~10.4-ft., saturated, no odors.	0.0	
10			0.0			
12	S-4 12' - 16'			Bottom of Boring @ 12.0-foot BGS	0.0	
14			0.0			
16					0.0	
18					0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 5.2-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-12

LABELLA

Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-13

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 07:50 TO 08:20
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-2'	2.7-ft.	0.0-ft. 0.3-ft.	FILL MATERIAL Asphalt - Not sampled Red-Brown mf SAND, moist sulfur odor, intermixed with Slag pieces	0.0 0.0	
2	S-2 2'-4'		2.0-ft.	Blue-Green Slag, sulfur odor, moist	0.0	
4	S-3 4' - 8'	1.9-ft.		Brown cmf SAND, little mf subrounded Gravel, moist, no odor	0.0 0.0	
6						
8	S-4 8' - 12'	1.4-ft.	9.3-ft.	As above, saturated BACKBEACH MARSH DEPOSIT Gray-Brown CLAY and SILT, saturated, no odor	0.0 0.0	
10						
12				Bottom of Boring @ 12.0-feet BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-Ft.	Approx. 4-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	

BORING: TB-2006-13



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PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-14

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 08:30 TO 08:50
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 1.3'-2.0'	3.6-ft.	0.0-ft. 0.2-ft. 1.3-ft.	FILL MATERIAL Asphalt - Not sampled Dark Gray to Brown cmf SAND and mf angular GRAVEL, moist, no odor Dark Gray mf SAND, slight petroleum odor, moist	0.0 0.0	
2	S-2 2'-4'		2.0-ft.	Red-Brown mf SAND, little (-) mf angular Gravel, moist, no odor	0.0	
4	S-3 4' - 8'	1.8-ft.	4.7-ft.	Blue-Green Slag, sulfur odor, moist	0.0 0.0	
6						
8	S-4 8' - 12'	2.0-ft.	9.3-ft.	As above, moist	0.0 0.0	
10						
12	S-5 12'-16'	1.0-ft.		As above, saturated	0.0	
14						
16				Bottom of Boring @ 16-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations and = 35 to 50 % c = coarse
some = 20 to 35% m = medium BGS = Below the Ground Surface
little = 10 to 20% f = fine NA = Not Applicable

BORING: TB-2006-14

LABELLA

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300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-15

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION:

DRILLER: Jim Agar

GROUND SURFACE ELEVATION: NA

TIME: 09:05 TO 09:30

DATUM: NA

LABELLA REPRESENTATIVE: M. Pelychaty

START DATE: 06-Oct-06

END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT

DRIVE SAMPLER TYPE: 4-foot Macrocore

AUGER SIZE AND TYPE: NA

INSIDE DIAMETER: ~1.8-inch

OVERBURDEN SAMPLING METHOD: Direct Push

OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-1'	3.1-ft.	0.0-ft.	FILL MATERIAL Asphalt - Not sampled Gray angular GRAVEL and cmf SAND, moist, no odor Brown cmf SAND and mf subrounded GRAVEL, moist, no odor Blue-Green Slag, sulfur odor Light Brown cmf SAND and mf subrounded GRAVEL, moist, no odor Red-Brown mf SAND, little subrounded Gravel, moist, no odor	0.0	
	S-2 1'-2'		0.3-ft.		0.0	
2	S-3 2'-4'		0.9-ft.		0.0	
			1.9-ft.			
			2.2-ft.			
4	S-4 4' - 8'	1.0-ft.	4.8-ft.	Blue-Green Slag, sulfur odor, moist	0.0	
6					0.0	
8	S-5 8' - 12'	0.9-ft.		As above, saturated	0.0	
10					0.0	
12				Bottom of Boring @ 12-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-15

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-16

SHEET 1 OF 2

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 09:45 TO 10:35
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-4'	3.5-ft.	0.0-ft. 0.3-ft. 0.7-ft.	FILL MATERIAL Asphalt - Not sampled Gray cmf SAND and mf angular GRAVEL Brown mf SAND, little Silt, trace f angular Gravel, moist, no odor Red-Brown mf SAND, little mf angular Gravel, moist, no odor Brown cmf SAND, little mf subrounded Gravel, moist, no odor	0.0	
2			2.7-ft.		0.0	
4	S-2 4' - 8'	1.9-ft.	4.0-ft.		0.0	
6					0.0	
8	S-3 8' - 12'	1.7-ft.	8.0-ft.		0.0	
10				0.0		
12	S-4 12'-16'	1.6-ft.		As above, saturated	0.0	
14				0.0		
16	S-5 16'-20'	2.1-ft.		0.0		
18				0.0		
20						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				21.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations:

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-16

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-16

SHEET 2 OF 2

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION:
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TIME: 09:45 TO 10:35
DATUM: NA

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT
AUGER SIZE AND TYPE: NA
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE: 4-foot Macrocore
INSIDE DIAMETER: ~1.8-Inch
OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
20	S-6 20'-21'	0.9-ft.		<u>FILL MATERIAL</u> As above, saturated, no odors.	0.0 0.0	
22				Bottom of Boring @ 21.0-ft. BGS		
24						
26						
28						
30						
32						
34						
36						
38						
40						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				21.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations

and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
fine = 1 to 10%

c = coarse
m = medium
f = fine
s = very fine

BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-16

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-17

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 10:30 TO 10:55
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-2'	3.5-ft.	0.0-ft.	FILL MATERIAL Asphalt - Not sampled Gray angular GRAVEL and cmf SAND, moist, no odor Brown mf SAND, moist, intermixed with Slag Gray mf SAND, moist, slight petroleum odor Red-Brown mf SAND, little mf angular Gravel, moist, slight petroleum odor	0.0	
	S-2 2'-3'		0.3-ft.		0.0	
2	S-3 3'-4'		0.9-ft.		0.9	
			2.0-ft.		1.2 0.8	
4	S-4 4' - 8'	1.5-ft.	4.0-ft.	BACKBEACH MARSH DEPOSIT Brown mf SAND and SILT, wet, no odors.	0.0 0.0	
6						
8	S-5 8' - 12'	1.2-ft.		As above, saturated	0.0 0.0	
10						
12				Bottom of Boring @ 12-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	Approx. 8-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable

BORING: TB-2006-17



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-18

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 11:05 TO ###
 DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
 LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
 AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
 OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 1.3'-2.0'	3.4-ft.	0.0-ft.	FILL MATERIAL Brown cmf SAND, little Silt, interbedded with cmf SAND, little Silt, little mf Gravel (Slag), moist, no odor	0.0 0.0	
2	S-2 2'-4'		2.8-ft.	BACKBEACH MARSH DEPOSIT Brown mf SAND and SILT, moist, no odor	0.0	
4	S-3 4' - 8'	3.2-ft.	4.0-ft.	As above, saturated.	0.0 0.0	
6				... Grading to ...		
8	S-4 8' - 12'	3.5-ft.	8.0-ft.	Brown SILT, little Clay, saturated, no odor	0.0 0.0	
10			10.2-ft.	Gray mf SAND, little Silt, saturated		
12	S-5 12'-15'	1.8-ft.		As above, saturated	0.0	
14						
16				Bottom of Boring @ 15-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				15.0-ft.	Approx. 4-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable

BORING: TB-2006-18

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-19

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 11:38 TO ###
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-2'	2.2-ft.	0.0-ft.	FILL MATERIAL Reddish-brown cmf SAND, little mf angular Gravel, Incl. ash, moist, no odor	0.0 0.0	
2	S-2 2'-4'				0.0	
4	S-3 4' - 8'	0.8-ft.	4.0-ft.	As above. BACKBEACH MARSH DEPOSIT Brown mf SAND, little Silt, moist, no odor	0.0 0.0	
6						
8	S-4 8' - 12'	2.7-ft.	8.0-ft.	Brown mf SAND and SILT, moist, no odor ... Grading To ...	0.0 0.0	
10			10.0-ft. 10.5-ft.	Brown mf SAND and SILT, little Clay, wet, no odor Gray mf SAND and SILT, little Clay, wet, no odor		
12	S-5 12'-16'	0.6-ft.		As above, saturated	0.0	
14						
16				Bottom of Boring @ 16-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		12.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TB-2006-19



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-20

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 12:15 TO ###
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: -1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0'-1'	3.0-ft.	0.0-ft.	FILL MATERIAL Brown mf SAND, little m ⁽⁺⁾ f angular Gravel, moist, no odor	0.0		
2	S-2 1'-2'		1.0-ft.		Brown cmf SAND, some mf angular Gravel, little Silt, wet, no odor		0.0
	S-3 2'-4'						0.0
4	S-4 4' - 8'	3.2-ft.	4.0-ft.	BACKBEACH MARSH DEPOSIT Gray mf SAND and Clayey SILT, wet, no odors.	0.0		
6					0.0		
8	S-5 8' - 12'	1.2-ft.		As above, wet	0.0		
10					0.0		
12				Bottom of Boring @ 12-ft. BGS			
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations

and = 35 to 50 %	c = coarse	
some = 20 to 35%	m = medium	BGS = Below the Ground Surface
little = 10 to 20%	f = fine	NA = Not Applicable

BORING: TB-2006-20



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-21

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 12:58 TO ###
 DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
 LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
 AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
 OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS	
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE				
0	S-1 0'-1'	3.1-ft.	0.0-ft.	FILL MATERIAL Brown mf SAND, little m ⁽⁺⁾ f angular Gravel, moist, no odor	0.0		
2	S-2 1'-2'		1.7-ft.		Dark Gray cmf SAND, trace, mf angular Gravel, intermixed with Cinders, moist, no odors.		0.0
	S-3 2'-4'						0.0
4	S-4 4' - 8'	2.0-ft.	4.0-ft.	Brown cmf SAND, little mf subrounded Gravel, moist, no odor	0.0		
6			5.0-ft.	BACKBEACH MARSH DEPOSIT Brown mf SAND and SILT, moist, no odor	0.0		
8	S-5 8' - 12'	2.8-ft.		As above, wet	0.0		
10					0.0		
12				Bottom of Boring @ 12-ft. BGS			
14							
16							
18							

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	No	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable

BORING: TB-2006-21



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-22

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental	BORING LOCATION:	TIME: TO ###
DRILLER: Jim Agar	GROUND SURFACE ELEVATION: NA	DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty	START DATE: 06-Oct-06	END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT	DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA	INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-4'	2.8-ft.	0.0-ft.	FILL MATERIAL Brown cmf SAND and mf angular GRAVEL, moist, no odor	0.0 0.0	
2			2.4-ft.	Dark Gray to Black cmf SAND, little mf angular Gravel, intermixed with Cinders	0.0	
4	S-2 4' - 8'	1.3-ft.	4.0-ft.	As above.	0.0 0.0	
6						
8	S-3 8' - 12'	2.8-ft.	8.0-ft.	BACKBEACH MARSH DEPOSIT Brown mf SAND and SILT, wet, no odor	0.0 0.0	
10					0.0	
12	S-4 12'-16'	3.0-ft.	12.0-ft.	Brown SILT, some mf Sand, little Clay, no odor, saturated	0.0 0.0	
14					0.0	
16				Bottom of Boring @ 16-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		16.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	

BORING: TB-2006-22

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-23

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: 14:00 TO ###
DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: -1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-4'	1.9-ft.	0.0-ft.	FILL MATERIAL Brown mf SAND, little m ^(s) f angular Gravel. moist. no odor	0.0 0.0	
2						
4	S-2 4' - 8'	1.9-ft.	4.4-ft. 4.7-ft.	BACKBEACH MARSH DEPOSIT Gray mf SAND, little Silt, moist, no odor Brown mf SAND, little Silt, moist, no odor	0.0 0.0	
6						
8	S-3 8' - 12'	3.0-ft.	8.0-ft.	As above, wet	0.0 0.0	
10					0.0	
12	S-4 12'-16'	3.8-ft.	12.0-ft.	Brown to Gray CLAY, little Silt, soft, saturated, no odor	0.0 0.0	
14					0.0	
16				Bottom of Boring @ 16-ft. BGS		
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16.0-ft.	Approx. 12-ft. BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	
some = 20 to 35%	m = medium	BGS = Below the Ground Surface
little = 10 to 20%	f = fine	NA = Not Applicable

BORING: TB-2006-23



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-24

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: TO ###
 DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
 LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
 AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
 OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-4'	2.6-ft.	0.0-ft.	<u>FILL MATERIAL</u> Brown cmf SAND and mf angular Gravel, moist, no odor	0.0 0.0	
2					0.0	
4	S-2 4' - 8'	2.7-ft.	4.2-ft.	<u>BACKBEACH MARSH DEPOSIT</u> Brown mf SAND and SILT, moist, no odors.	0.0 0.0	
6					0.0	
8	S-3 8' - 12'	2.3-ft.	8.0-ft.	Gray mf SAND, little Silt, moist, no odor	0.0	
10			8.9-ft.	Brown mf SAND, little Silt, wet, no odor	0.0	
12				Bottom of Boring @ 12-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				12.0-ft.	No	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 - Abbreviations

and = 35 to 50 %	c = coarse
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little = 10 to 20%	f = fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TB-2006-24



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Phase II ESA: Environmental Evaluation
CSX Spill Site
Lake Avenue, Rochester, New York

BORING: TB-2006-25

SHEET 1 OF 1

JOB: 206474

CHKD BY:

CONTRACTOR: TREC Environmental BORING LOCATION: TIME: TO ###
 DRILLER: Jim Agar GROUND SURFACE ELEVATION: NA DATUM: NA
 LABELLA REPRESENTATIVE: M. Pelychaty START DATE: 06-Oct-06 END DATE: 06-Oct-06

TYPE OF DRILL RIG: Truck Mounted Geoprobe Model 54DT DRIVE SAMPLER TYPE: 4-foot Macrocore
 AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
 OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE			
0	S-1 0'-4'	3.2-ft.	0.0-ft.	FILL MATERIAL Brown cmf SAND and mf angular GRAVEL, moist, no odor 1.1-ft. Gray cmf SAND and mf angular GRAVEL, moist, no odor	0.0	
2			0.0			
4	S-2 4' - 8'	1.9-ft.	4.0-ft.	BACKBEACH MARSH DEPOSIT Brown mf SAND, some Silt, little mf angular Gravel, moist, no odors.	0.0	
6			0.0			
8	S-3 8' - 12'	2.1-ft.	8.0-ft.	As above, wet	0.0	
10			0.0			
12				Bottom of Boring @ 12-ft. BGS		
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				12.0-ft2	No	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium
 little = 10 to 20% f = fine
 NA = Not Applicable

BORING: TB-2006-25

NOTHNAGLE DRILLING, INC.

1821 Scottsville-Mumford Road

Scottsville, New York 14546

(585) 538-2328

www.nothnagledrilling.com

Well Completion Report

NYS DEC Permit N/A

Well # GT-1

Job Location: Part of Rochester
Corner of Portside
and Lake Ave.
VACANT LOT

Contact: Peter Smith

Phone: 585 413-5635

Fax No.: 424-5951

E-Mail: _____

Well Coordinates _____

Start Well Date 8/13/07 Finished Well Date 8/16/07 Driller(s) Steve Belser, JAMES SMITH

Well Diameter 6" Rig # T4W New Well Deepened _____ Clean Out _____

Left Shop 7:30 A.M.

	DEPTH	DRILL LOG	PIPE TALLY
Arrived: <u>8:30</u>			
Departed:			
Well Depth: <u>400'</u>			
Casing Depth: <u>Drilled with 6.25" HSA to 54' bgs (top of rock)</u>			
Flow Rate: <u>Had trace of water at 205' and 230' bgs.</u>			
Static Water Level: <u>After well sat for > 24 hours static level 19' bgs</u>			
Water Zones: <u>205', 230' trace water.</u>			
Water Quality: <u>N.A.</u>			
Drive Shoe: <u>NO</u>			
Well Cap: <u>NO</u>			

Grouted: Used Barotherm geothermal grout with conductivity of 1. Mixed 540 gallons of Barotherm gr.

Remarks: Geothermal well loop: 1 1/4" HDPE, SDR11 set to 400' bgs.

Hydraulic pressure was working to lift loop out of boring, needed to allow well to set overnight after loop install

NOTHNAGLE DRILLING, INC.

1821 Scottsville-Mumford Road

Scottsville, New York 14546

(585) 538-2328

www.nothnagledrilling.com

Well Completion Report

NYS DEC Permit N. A

Well # GT-2

Job Location: Port of Rochester.

Contact: Peter Smith

VACANT lot North

Phone: 585 413 5635

of Terminal

Fax No.: 424-5951

E-Mail: _____

Well Coordinates

Start Well Date 8/6/07 Finished Well Date 8/6/07 Driller(s) Neal Short

Well Diameter 4.25" HSA Rig # 75-1 New Well Deepened _____ Clean Out _____

Left Shop 7:00

	DEPTH	DRILL LOG	PIPE TALLY
Arrived: <u>8:00</u>			
Departed:			
Well Depth:	<u>Drilled with 4.25" HSA to 105' bgs</u>		
Casing Depth:	<u>- temporary hollow stem augers</u>		
Flow Rate:	<u>cuttings become moist at 12' bgs</u>		
Static Water Level:			
Water Zones:			
Water Quality:			
Drive Shoe:			
Well Cap:			

Grouted: Installed 105' of 1" HDPE SDR11 pipe

allowed boring to collapse around piping,

Remarks: tapped off loop with 40 Gallons of bentonite slurry.

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Part of Rochester
Lake Avenue, Rochester, New York

BORING: TP-1

SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: 1200 TO 1300
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab

OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	NATIVE MATERIAL Light brown, SILT, little f Sand, moist, No odor	0.0	
2		2.0'	As above	0.0	
		3.0'	*4" Steel pipe running east to west	0.0	
4		4.0'	As above	0.0	
		5.5'	8" Steel abandoned water line running east-west	0.0	
6			Bottom @ 6.0' BGS		
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			6.0' BGS	Not encountered	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-1

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-2
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: 1345 TO 1430
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab

OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	FILL MATERIAL Light brown, SILT and mf SAND, dry, No odor	0.0	
		1.5'	Assorted fill materials (i.e., brick concrete, metal pieces)		
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
			Refusal @ 4.5' BGS		
6					
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF	GROUNDWATER	NOTES:
DATE	TIME	ELAPSED TIME	TEST PIT	ENCOUNTERED	
			4.8' BGS	Not encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-2

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-3
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: 1300 TO 1345
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	FILL MATERIAL Light brown to pink, SILT, little nrf Sand, trace Clay, damp, No odor Eastern end of TP-3 - Brick fragments, cut stone, some metal objects, very loose	0.0	
		1.5'			
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
		5.0'	As above	0.0	
6		6.0'	As above	0.0	
		7.0'	As above	0.0	
8		8.0'	Bottom @ 8.0' BGS		
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			8.0' BGS	Not encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-3

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-4
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental **TEST PIT LOCATION:**
EXCAVATOR: Kubota KX121-3 Super Series **GROUND SURFACE ELEVATION:** NA
LABELLA REPRESENTATIVE: E. Dumrese **START DATE:** 9/5/08 **END DATE:** 9/5/08
TIME: 1045 TO 1150
DATUM: NA

OVERBURDEN SAMPLING METHOD: Direct Grab **OTHER:**

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Crushed Gravel	0.1	
		1.0'	FILL MATERIAL Light brown to grey, SILT and f SAND, moist, No odor (buried topsoil)	0.0	
		1.5'	Concrete chunk		
2		2.5'	Crushed brick and concrete fragments - concrete block ~3.0' in diameter encountered	0.0	
		3.2'	NATIVE MATERIAL Light brown, mf SAND, little Silt, dry, No odor	0.0	
4		4.0'	Light brown, SILT, little mf Sand, trace Clay, moist, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.3'	As above <i>Bottom @ 7.3' BGS</i>	0.0	
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			7.3' BGS	Not encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: TP-4

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-5

SHEET 1 OF 1

JOB: 208453

CHKD BY: ED

CONTRACTOR: IREC Environmental TEST PIT LOCATION: TIME: 1445 TO 1600
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab

OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	Grey, SILT, trace f Sand, moist, No odor Abandoned clay sewer line running north to south	0.0	
2		2.0' 2.5'	FILL MATERIAL Some brick fragments, asphalt pieces and crushed concrete Brick fragmented wall running east to west along southern end of test pit	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
		5.0'	As above	0.0	
6		6.0'	NATIVE MATERIAL Grey, SILT, little Clay, trace f Sand, wet, No odor	0.0	
			<i>Bottom @ 6.8' BGS</i>		
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			6.8' BGS	6.8' BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-5

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-6
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: IREC Environmental TEST PIT LOCATION: TIME: 9:30 TO 10:30
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		0.5'	NATIVE MATERIAL Light brown, mf SAND, trace Silt, dry, No odor		
2		1.5'	~3/4" steel conduit running north to south	0.0	
		2.0'	As above	0.0	
4		3.0'	As above	0.0	
		4.0'	As above, some Silt	0.0	
6		5.0'	As above	0.0	
		6.0'	As above	0.0	
8		7.0'	As above	0.0	
			Bottom @ 8.0' BGS		
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			8.0' BGS	Not encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-6

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-7
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental **TEST PIT LOCATION:**
EXCAVATOR: Kubota KX121-3 Super Series **GROUND SURFACE ELEVATION:** NA
LABELLA REPRESENTATIVE: E. Dumrese **START DATE:** 9/5/08 **END DATE:** 9/5/08
TIME: 8:30 TO 9:30
DATUM: NA

OVERBURDEN SAMPLING METHOD: Direct Grab **OTHER:**

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
	S-1 1.5'	1.0'	FILL MATERIAL Blue slag encountered - large chunks (i.e. <1' in diameter) Fill materials: Brick, crushed concrete, steel plates, some wood pieces to 8.0' BGS	0.0	
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
		5.0'	As above	0.0	
6		6.0'	As above	0.0	
		7.0'	As above	0.0	
8			<i>Bottom @ 8.0' BGS</i>		
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			8.0' BGS	Not encountered	

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
 - 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER
 - 3) Abbreviations

and = 35 to 50 %	c = coarse
some = 20 to 35%	m = medium
little = 10 to 20%	f = fine
trace = 1 to 10%	vf = very fine
- BGS = Below the Ground Surface
NA = Not Applicable

BORING: TP-7



300 STATE STREET, ROCHESTER, NY
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**TEST PIT LOG
PROJECT**

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-8
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: 1330 TO 1400
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	<u>NATIVE MATERIAL</u> Light brown, SILT, some mf Sand, dry, No odor	0.0	
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	Brown to grey, SILT, some Clay, moist, No odor	0.0	
			<i>Bottom @ 5.0' BGS</i>		
6					
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME	5.0' BGS	Not encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: TP-8

LABELLA

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ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-9
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08/2008 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0	0.0'		Topsoil NATIVE MATERIAL	0.0	
	0.8'		Light brown, SILT, trace f Sand and Clay		
2	1.0'		As above	0.0	
	2.0'		As above	0.0	
4	3.0'		As above	0.0	
	4.0'		As above	0.0	
6			Bottom @ 4.5' BGS		
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			4.5' BGS	Not encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: TP-9



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**TEST PIT LOG
PROJECT**

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-10
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08/2008 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	FILL MATERIAL Assorted fill (C&D debris - concrete chunks, bricks, etc.)	0.0	
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
		5.0'	As above	0.0	
6		6.0'	As above	0.0	
		7.0'	As above	0.0	
8		8.0'	NATIVE MATERIAL Light brown, SILT, trace f Sand, moist, No odor	0.0	
		9.5'	As above, wet @ 8.8' BGS	0.0	
10		10.0'	As above <i>Bottom @ 10.6' BGS</i>	0.0	
12					

WATER LEVEL DATA			BOTTOM OF	GROUNDWATER	NOTES:
DATE	TIME	ELAPSED TIME	TEST PIT	ENCOUNTERED	
			10.6' BGS	8.8' BGS	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-10



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST PIT LOG
PROJECT**

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-11
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
			NATIVE MATERIAL Light brown, mf SAND, little Silt, dry, No odor	0.0	
2		2.0'	As above, No odor	0.0	
		3.0'	As above	0.0	
4		4.0'	As above, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.0'	As above	0.0	
8		8.0'	As above	0.0	
			<i>Bottom @ 8.5' BGS</i>		
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			8.5' BGS	Not Encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-11

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-12
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 9/5/08 END DATE: 9/5/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
			NATIVE MATERIAL		
		1.0'	Light brown, SILT, little mf Sand, moist, No odor	0.0	
2		2.0'	As above, No odor	0.0	
		3.0'	As above	0.0	
4		4.0'	As above, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.0'	As above	0.0	
8			Bottom @ 8.0' BGS		
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			8.0' BGS	Not Encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: TP-12

LABELLA

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-13
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	FILL MATERIAL Reddish to brown, mc SAND and SILT, moist, No odor	0.1	
		1.5'	Red slag (large pieces, > 6" in diameter, but < 1' in diameter) - Sulfur odor		
2		2.0'	As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above	0.0	
		5.0'	As above	0.0	
6		6.0'	As above	0.0	
		7.0'	As above	0.0	
8		8.0'	As above	0.0	
		9.3'	As above, wet @ -9.3' BGS	0.0	
10		10.0'	NATIVE MATERIAL Dark brown to black, SILT, trace f Sand and Clay, some organics (roots), saturated, sulfur odor	0.1	
		11.0'	As above <i>Bottom @ 11.5' BGS</i>	0.0	
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			11.5' BGS	9.3' BGS	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: TP-13

LABELLA

Associates, P.C.

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TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-14
SHEET 1 OF 1
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/98 END DATE: 10/3/98

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	FILL MATERIAL Assorted fill (i.e. brick fragments, concrete, blue slag)	0.0	
2		2.0'	NATIVE MATERIAL Light tan, SILT, trace f Sand, moist, No odor	0.0	
		3.0'	As above	0.0	
4		4.0'	As above, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.0'	Large concrete slab, unable to excavate beneath <i>Refusal @ 7.2' BGS</i>	0.0	
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			7.2' BGS	Not Encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: TP-14



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST PIT LOG
PROJECT**

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-15
SHEET 1 OF 2
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil	0.0	
		1.0'	NATIVE MATERIAL Light brown, SILT, trace f Sand, moist, No odor	0.0	
		1.5'	Broken steel I-beams encountered - 24" thick concrete and stone wall running east to west along northern side of test pit		
2		2.0'	- Vertical steel support for former trestle system encountered, depth to top of concrete pylon ~10.0' BGS As above	0.0	
		3.0'	As above	0.0	
4		4.0'	As above, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.0'	As above	0.0	
8		8.0'	As above, No odor	0.0	
		9.0'	As above	0.0	
10		10.0'	Pink to reddish brown, SANDSTONE, some mc Sand, moist, No odor	0.0	
		11.0'	As above	0.0	
12		12.0'	As above, No odor	0.0	

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			19.5' BGS	Not Encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-15



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

**TEST PIT LOG
PROJECT**

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-15
SHEET 2 OF 2
JOB: 208453
CHKD BY: ED

CONTRACTOR: FREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
14		14'	As above, No odor	0.0	
		15'	As above	0.0	
16		16'	As above, No odor	0.0	
		17'	As above	0.0	
18		18'	As above, No odor	0.0	
		19'	Concrete Slab encountered @ ~19.5' BGS <i>Refusal @ 19.5' BGS</i>	0.0	
20					
22					
24					
26					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			19.5' BGS	Not Encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-15

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-16
SHEET 1 OF 2
JOB: 208453
CHKD BY: ED

CONTRACTOR: IREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
0		0.0'	Topsoil - Concrete wall ~24" thick running north to south	0.0	
		1.0'	<u>NATIVE MATERIAL</u> Light brown, SILT, trace f Sand, moist, No odor	0.0	
2		2.0'	As above, No odor	0.0	
		3.0'	As above	0.0	
4		4.0'	As above, No odor	0.0	
		5.0'	As above	0.0	
6		6.0'	As above, No odor	0.0	
		7.0'	As above	0.0	
8		8.0'	As above, No odor	0.0	
		9.0'	As above	0.0	
10		10.0'	As above, No odor	0.0	
		11.0'	As above	0.0	
12		12.0'	As above, No odor	0.0	

WATER LEVEL DATA

DATE	TIME	ELAPSED TIME	BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
			14.5' BGS	Not Encountered	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- Abbreviations

and = 35 to 50 %	c = coarse	BGS = Below the Ground Surface
some = 20 to 35%	m = medium	NA = Not Applicable
little = 10 to 20%	f = fine	
trace = 1 to 10%	vf = very fine	

BORING: TP-16

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG PROJECT

Phase II ESA: Test Pit Soil Sampling
Port of Rochester
Lake Avenue, Rochester, New York

BORING: TP-16
SHEET 2 OF 2
JOB: 208453
CHKD BY: ED

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: TO
EXCAVATOR: Kubota KX121-3 Super Series GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: E. Dumrese START DATE: 10/3/08 END DATE: 10/3/08

OVERBURDEN SAMPLING METHOD: Direct Grab OTHER:

DEPTH	SAMPLE		VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
	SAMPLE NO. AND DEPTH	STRATA CHANGE			
14		14'	Various steel debris	0.0	
		14.5'	Concrete slab @ -14.5' BGS <i>Refusal @ 14.5' BGS</i>		
16					
18					
20					
22					
24					
26					

WATER LEVEL DATA			BOTTOM OF TEST PIT	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME			
			14.5' BGS	Not Encountered	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: TP-16

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-1
 Job No.: 8703
 Page: 1 OF 1
 Report Date: 10/24/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 10/24/2008
 Completed: 10/24/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		1	12			19	1	0'0"-2'0"	TOPSOIL AND ORGANIC MATTER 0'7"
		8	11	7	7	29	2	2'0"-4'0"	FILL MATERIAL C/O SILT, SAND, GRAVEL, LITTLE CINDERS
5		19	24	18	30	54	3	4'0"-6'0"	FILL MATERIAL C/O SILT, SAND, GRAVEL, TRACE CONCRETE 4'0"
		25	24	30	33	49	4	6'0"-8'0"	VERY DENSE RED BROWN MOTTLED MOIST SILTY FINE SAND (STAINING NOTED) DENSE RED BROWN MOTTLED MOIST 8'0"
10		11	15	25	26	29	5	8'0"-10'0"	HARD GREY BROWN MOIST SILT, LITTLE FINE SAND, TRACE CLAY
		12	13	14	19				12'0"
15				12		25	6	13'6"-15'0"	STIFF GREY BROWN MOIST SILT, LITTLE CLAY (VERY FINE SAND LENSES NOTED)
		9	20						19'0"
20				50/3		70/9	7	18'6"-19'9"	VERY DENSE RED BROWN MOIST TO WET F-VF SAND, TRACE GRAVEL AND SILT
		28	38						23'6"
25				50/4		88/10	8	23'6"-24'10"	VERY DENSE RED BROWN WET TO SATURATED (LITTLE GRAVEL)
		50/3				50/3	9	28'6"-28'9"	VERY DENSE RED BROWN MOIST
30									
		55/3				55/3	10	33'6"-33'9"	VERY DENSE RED BROWN DAMP BORING TERMINATED @ 33'9"
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-2
 Job No.: 8703
 Page: 1 OF 2
 Report Date: 10/23/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 10/23/2008
 Completed: 10/23/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		7	6						FILL MATERIAL C/O SILT, SAND, GRAVEL, AND SLAG
		15	16						FILL MATERIAL C/O SILT, SAND, GRAVEL, TRACE BRICK
5		23	20						FILL MATERIAL (MOSTLY SLAG)
				20	13	40	3		FILL MATERIAL (SLAG)
		9	10						FILL MATERIAL C/O SILT, SAND, GRAVEL, AND SLAG
		6	5						FILL MATERIAL C/O SILT, SAND, GRAVEL AND SLAG
10				10	8	15	5		FILL MATERIAL C/O SILT, SAND, GRAVEL AND SLAG
									FILL MATERIAL C/O SILT, SAND, GRAVEL AND SLAG
		3	1						FILL MATERIAL C/O SILT, SAND, GRAVEL AND SLAG
15				2		3	6		13'6"
									17'0"
		2	3						LOOSE BROWN BLACK PEAT
20				4		7	7		18'6"-20'0"
									LOOSE DARK BROWN SATURATED SAND AND GRAVEL, TRACE WOOD
									24'3"
		2	9						24'6"
25				5		14	8		23'6"-25'0"
									FIRM GREY BROWN SATURATED SILT, TRACE CLAY AND FINE GRAVEL
									AUGERS STIFFENED
		13	16						27'4"
30				22		38	9		28'6"-30'0"
									COMPACT RED BROWN WET SILT AND VF SAND, LITTLE CLAY AND FINE GRAVEL
		24	56/6			80	10		33'6"-34'6"
35									VERY DENSE RED BROWN MOIST (NO CLAY)

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-2
 Job No.: 8703
 Page: 2 OF 2
 Report Date: 10/23/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 10/23/2008
 Completed: 10/23/2008

Seasonal and climatic changes may alter observed water levels.

35	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
40									
		50/5			50/5	11	40'0"-40'5"	VERY DENSE RED BROWN MOIST BORING TERMINATED @ 40'5"	
45									
50									
55									
60									
65									
70									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-3
 Job No.: 8703
 Page: 1 OF 2
 Report Date: 10/24/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____
 Geologist: _____
 Driller: S. KAHN
 Start: 10/23/2008
 Completed: 10/24/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
		4	15			29	1	0'0"-2'0"	TOPSOIL AND ORGANIC MATTER 0'6"
		10	14	14	7	24	2	2'0"-4'0"	FILL MATERIAL C/O SILT, SAND, GRAVEL, CINDERS, TRACE BRICK
5		6	5	10	12	10	3	4'0"-6'0"	FILL MATERIAL (SAME)
		6	8	5	4	17	4	6'0"-8'0"	FILL MATERIAL (SLAG)
10		30	35	25	27	60	5	8'0"-10'0"	FILL MATERIAL C/O SILT, SAND, GRAVEL, AND SLAG
									FILL MATERIAL C/O SILT, SAND, GRAVEL AND SLAG 14'6"
15		20	23	9		32	6	13'6"-15'0"	COMPACT RED BROWN SATURATED F-VF SAND SOME SILT AND GRAVEL 17'0"
									PEAT LAYER 19'0"
20		2	3	5		8	7	18'6"-20'0"	MEDIUM GREY GREEN WET ORGANIC SILT
									23'6"
25		19	27	50/5		77/11	8	23'6"-24'11"	VERY DENSE RED BROWN MOIST F-VF SAND, SOME SILT AND C-F GRAVEL
30		26	52			78	9	28'6"-29'6"	VERY DENSE RED BROWN MOIST TO WET
35		46	50/4			96/10	10	33'6"-34'4"	VERY DENSE GREY BROWN WET (LESS SILT)

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-3
 Job No.: 8703
 Page: 2 OF 2
 Report Date: 10/24/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____
 Geologist: _____
 Driller: S. KAHN
 Start: 10/23/2008
 Completed: 10/24/2008

Seasonal and climatic changes may alter observed water levels.

C	Blows on Sampler				N	Sample		Soil and Rock Information
	0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
35								
40								
	50/4				50/4	11	40'0"-40'4"	VERY DENSE GREY BROWN WET 40'4"
45								
50								
55								
60								
65								
70								

BORING TERMINATED @ 40'4"

NOTES: ELEVATIONS PROVIDED BY OTHERS
 INSTALLED 2" PVC WELL TO 33' WITH 2'
 STICKUP- SCREENED FROM 23'-13' WITH
 SAND PACK- BENTONITE SEAL AND 4"X 5'
 PROTECTIVE COVER

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-4
 Job No.: 8703
 Page: 1 OF 1
 Report Date: 10/24/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____
 Geologist: _____
 Driller: S. KAHN
 Start: 10/24/2008
 Completed: 10/24/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
								ASPHALT 0'3"	
								CRUSHED STONE & BANK RUN GRAVEL 1'0"	
								TOPSOIL LIKE MATERIAL 2'0"	
5		2	2					MOVED BORING 5' AND DRILLED THROUGH HEAVY SLAG FILL TO 4'0"- SEE NOTE 4'0"	
				2	3	4	1	4'0"-6'0" LOOSE RED BROWN MOIST SILT, LITTLE VF SAND	
		2	3					6'0"-8'0" LOOSE RED BROWN WET TO SATURATED 8'0"	
				3	3	6	2		
10		2	2					8'0"-10'0" MEDIUM RED BROWN MOIST CLAYEY SILT VARVED (STAINING NOTED) 12'0"	
				3	4	5	3		
15		14	19					13'6"-15'0" DENSE RED BROWN WET F-VF SAND AND C-F GRAVEL, TRACE SILT	
				26		45	4		
20		28	56					18'6"-19'6" VERY DENSE RED BROWN WET	
						84	5		
25								25'0"-25'5" VERY DENSE GREY DAMP 25'5"	
		77/5				77/5	6		
30								BORING TERMINATED @ 25'5"	
35								NOTES: ELEVATIONS PROVIDED BY OTHERS ASPHALT COLD PATCHED @ COMPLETION ABANDONED FIRST LOCATION @ 2'0" DUE TO OBSTRUCTION- BACKFILLED & PATCHED	

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-5
 Job No.: 8703
 Page: 1 OF 1
 Report Date: 10/27/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____
 Geologist: _____
 Driller: S. KAHN
 Start: 10/27/2008
 Completed: 10/27/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
								ASPHALT <u>0'4"</u>	
								CRUSHED STONE & BANK RUN GRAVEL <u>0'10"</u>	
		10	10					TOPSOIL AND CONCRETE FILL	
5		9	9	13	15	23	1	FILL MATERIAL C/O SILT, SAND, GRAVEL	
								LITTLE CONCRETE AND BRICK	
				8	6	17	2	FILL MATERIAL C/O M-F SAND (RUST STAINED)	
		5	5						
				11	6	16	3	FILL MATERIAL (SAME) <u>8'0"</u>	
10		3	4						
				4	5	8	4	MEDIUM RED BROWN MOIST CLAYEY SILT	
		6	7						
15				9		16	5	13'6"-15'0" STIFF RED BROWN MOIST SILTY CLAY <u>15'0"</u>	
20								BORING TERMINATED @ 15'0"	
25								NOTES: ELEVATIONS PROVIDED BY OTHERS	
								ASPHALT COLD PATCHED @ COMPLETION	
30									
35									

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-6
 Job No.: 8703
 Page: 1 OF 1
 Report Date: 10/27/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____

Geologist: _____
 Driller: S. KAHN
 Start: 10/27/2008
 Completed: 10/27/2008

Seasonal and climatic changes may alter observed water levels.

0	C	Blows on Sampler				N	Sample		Soil and Rock Information
		0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
								ASPHALT 0'4"	
								CRUSHED STONE & BANK RUN GRAVEL 0'11"	
		8	4					FILL MATERIAL C/O SILT, SAND, GRAVEL	
				5	8	9	1	2'0"-4'0" BRICK AND CONCRETE	
5		40	18					FILL MATERIAL (SAME) 5'0"	
				4	6	22	2	4'0"-6'0" FILL MATERIAL C/O M-F SAND (RUST STAINED)	
		6	4					6'0"-8'0" FILL MATERIAL (SAME) 8'0"	
				2	7	6	3		
10		12	14					8'0"-10'0" NO RECOVERY	
				6	5	20	4		
		1	2					10'0"-12'0" SOFT GREY SATURATED SILTY CLAY	
				2	3	4	5		
		4	4					12'0"-14'0" MEDIUM GREY SATURATED (SAND LINES NOTED) 14'0"	
				3	4	7	6		
15									
20									
25									
30									
35									

BORING TERMINATED @ 14'0"

NOTES: ELEVATIONS PROVIDED BY OTHERS
 ASPHALT COLD PATCHED @ COMPLETION

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

Target Drilling Company
 1850 Lakeville Road
 Avon, New York 14414

Test Boring No.: B-08-7(A&B)
 Job No.: 8703
 Page: 1 OF 1
 Report Date: 10/27/2008

Project: PORT OF ROCHESTER
 Client: LABELLA ASSOCIATES, PC C/O FDPC
 Elevation: _____
 Water Level - Casing In: _____
 Below Surface - Casing Out: _____
 Geologist: _____
 Driller: S. KAHN
 Start: 10/27/2008
 Completed: 10/27/2008

Seasonal and climatic changes may alter observed water levels.

0	Blows on Sampler				N	Sample		Soil and Rock Information
	0"/6"	6"/12"	12"/18"	18"/24"		No.	depth	
							B-08-7A	ASPHALT 0'4" CRUSHED STONE & BANK RUN GRAVEL 0'10" FILL MATERIAL C/O SILT, SAND, GRAVEL BRICK AND CONCRETE (GROUND IN CONCRETE TO REFUSAL) @ 5'6"
	2	4			24	1	2'0"-3'8"	
5	15	69/6	20	50/2	84	2	4'0"-5'0"	
								BORING TERMINATED @ 5'6" NOTES: ELEVATIONS PROVIDED BY OTHERS ASPHALT COLD PATCHED @ COMPLETION
10								
								MOVED APPROX 5' WEST AND REDRILLED B08-7(B) AUGERED TO 4' AND BEGAN SAMPLING
0								
							B-087B	ASPHALT 0'5" CRUSHED STONE 0'10" FROM CUTTINGS SILT, SAND AND CLAY
5	2	2					4'0"-6'0"	MEDIUM GREY BROWN MOIST SILTY CLAY
	3	4	3	4	5	3		
			5	6	9	4	6'0"-8'0"	MEDIUM GREY BROWN MOIST 8'0"
10								BORING TERMINATED @ 8'0" NOTES: ELEVATIONS PROVIDED BY OTHERS ASPHALT COLD PATCHED @ COMPLETION
15								
20								

N=No. of Blows to 2" Spoon 12" with 140 30" Ea. Blow
 N=No. of Blows to Drive Spoon _____ with _____ lb. wt _____ Ea. Blow

300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	Phase II Environmental Site Assessment	BORING B08-1
	Port of Rochester Rochester, New York	SHEET 1 of 2 JOB # 208453 CHKD. BY: ED

CONTRACTOR: Target Drilling	BORING LOCATION	
DRILLER Ben Saragusa	GROUND SURFACE ELEVATION	DATUM
LABELLA REPRESENTATIVE E. Dumrese	START DATE 10/24/2008	END DATE 10/24/2008

TYPE OF DRILL RIG: Rotary Drill Rig AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoon ROCK DRILLING METHOD N/A	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
1	0	S-1	0.0-2.0	N/A		0.0'	Topsoil	0.0	
	0					NATIVE MATERIAL Fill			
	1					Brown, SILT and m SAND, moist, No odor			
2	6	S-2	2.0-4.0	29		2.0'	As above	0.0	
	9								
	11								
3	18	S-3	4.0-6.0	54		4.0'	Light brown, SILT, some f Sand, some iron staining, moist, No odor	0.0	
	30								
	19								
4	33	S-4	6.0-8.0	49		6.0'	Light brown, SILT, little m Sand, moist, No odor	0.0	
	25								
	24								
5	26	S-5	8.0-10.0	29		8.0'	Grey to pink, SILT, little m Sand, trace Clay, moist, No odor	0.0	
	11								
	15								
6	14	S-6	10.0-12.0	N/A		10.0'	As above, moist, No odor	0.0	
	19								
	NA								
7	12	S-7	12.0-14.0	25		12.0'	As Above, moist, No odor	0.0	
	13								
	12								
8	12	S-8	14.0-16.0	70/9		13.6'	Grey, SILT, trace f Sand and Clay, moist, No odor	0.0	
	9								
	20								
9	50/3					14.0'	As above, moist, No odor		

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of Boring = -33.9' BGS Groundwater Encountered @ -24.0' BGS
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Target Drilling BORING LOCATION
 DRILLER Ben Saragusa GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE E. Dumrese START DATE 10/24/2008 END DATE 10/24/2008

TYPE OF DRILL RIG: Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
17					16.0'	As above	0.0	
18	9				18.6'	<u>GLACIAL TILL</u> Brown, SILT, little f to vf Sand, trace Clay, moist, No odor (Native Till)	0.0	
19	20 50/3	S-9	18.0-20.0	70/9				
20					20.0'	As above	0.0	
21								
22					22.0'	As above	0.0	
23								
24					24.0'	Brown, SILT and mc SAND, saturated, No odor	0.0	
25	50/3	S-10	N/A	N/A				
26					26.0'	As above	0.0	
27								
28					28.0'	Grey, SILT, little mf Sand, moist, No odor	0.0	
29	50/3	S-11	N/A	N/A				
30					30.0'	As above		
31		S-12	N/A	N/A				
32	55/3				32.0'	As above, No odor	0.0	

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES: Bottom of Boring = -33.9' BGS Groundwater Encountered @ -24.0' BGS</p>
--	---

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION
START DATE 10/24/2008

DATUM
END DATE 10/24/2008

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	
10/24/2008	930	~18.0' BGS			

TYPE OF DRILL RIG: Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'						Topsoil - Brown, mf SAND and SILT, moist, No odor	0.0	
1.8'		S-1	0.0-2.0	39		FILL MATERIAL Blue slag, sulfur odor		
2.0'						Reddish to brown, SILT, some mf Sand, little Gravel, moist, slight sulfur odor some blue slag	0.0	
4.0'		S-2	2.0-4.0	33		Blue slag, sulfur odor	0.0	
6.0'						Brown, SILT, little mf Sand and Gravel, moist, slight sulfur odor	0.0	
6.2'		S-3	4.0-6.0	40		Blue slag, slight sulfur odor		
8.0'						As above, wet @ ~8.5' BGS	0.0	
10.0'		S-4	6.0-8.0	19		As above	0.0	
12.0'						As above	0.0	
13.6'		S-5	8.0-10.0	15		NATIVE MATERIAL Dark brown, organic peat layer, strong organic odor	0.2	
15.0'		S-6	13.6-15.0	3		As above, saturated @ ~15.0' BGS	0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of Boring = ~40.5 BGS
Groundwater Encountered @ ~8.5' BGS
Monitoring well MW-1 installed to a total depth of ~33.0' BGS with 10' screen from ~ 23' BGS to 13' BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Phase II Environmental Site Assessment

Port of Rochester
Rochester, New York

BORING **B08-2/MW-1**

SHEET 2 of 3

JOB # 208453

CHKD. BY: ED

CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION
START DATE 10/24/2008 END DATE 10/24/2008 DATUM

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	
10/24/2008	930	~18.0' BGS			

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
17					16.0'	As above	0.0	
18	2	S-7	18.6-20.0	7	18.6'	Brown to black, mc SAND and GRAVEL, saturated, organic matter and slight odor	0.2	
19	3							
20	4							
21					20.0'	As above	0.0	
22	2	S-8	23.6-25.0	14	22.0'	As above	0.0	
23	9							
24	5							
25	7				23.6'	Grey to black, SILT, little Clay and Gravel, saturated, No odor	0.1	
26					24.0'	As above	0.0	
27	13	S-9	27.4-29.0	38	26.0'	As above	0.0	
28	11							
29	22							
30					27.4'	Light brown, SILT, little mf Sand, moist to wet, No odor (Native Till)		
31					28.0'	As above	0.0	
32					30.0'	As above	0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of Boring = ~40.5 BGS
 Groundwater Encountered @ ~8.5' BGS
 Monitoring well MW-1 installed to a total depth of ~33.0' BGS with 10' screen from ~ 23' BGS to 13' BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Phase II Environmental Site Assessment

Port of Rochester
Rochester, New York

BORING B08-2/MW-1

SHEET 3 of 3

JOB # 208453

CHKD. BY: ED

CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION DATUM
START DATE 10/24/2008 END DATE 10/24/2008

TYPE OF DRILL RIG: Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS
10/24/2008	930	~18.0' BGS		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
33	24	S-10	33.6-35.0	80		Light brown, SILT, little f Sand, trace Gravel, moist, No odor	0.0	
34	36					As above	0.0	
35								
36						As above	0.0	
37								
38						As above	0.0	
39								
40						As above	0.0	
41						Bottom @ ~40.5' BGS		
42								
43								
44								
45								
46								
47								
48								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of Boring = ~40.5 BGS
Groundwater Encountered @ ~8.5' BGS
Monitoring well MW-1 installed to a total depth of ~33.0' BGS with 10' screen from ~ 23' BGS to 13' BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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CONTRACTOR: Target Drilling BORING LOCATION
 DRILLER Ben Saragusa GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE E. Dumrese START DATE 10/23/2008 END DATE 10/23/2008

TYPE OF DRILL RIG: Rotary Drill Rig AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoon ROCK DRILLING METHOD N/A	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	4	S-1	0.0-2.0	29		0.0'	Dark brown, SILT, some mf Sand and Gravel, moist, no odor	0.0	
1.0'	14					Large pieces of Gravel (i.e., ~1.0" in diameter)	0.0		
1.3'	15					FILL MATERIAL			
2.0'	7	S-2	2.0-4.0	24		1.3'	Brown, SILT, little f Sand, moist, no odor	0.0	
2.0'	10					Dark brown, SILT and c SAND, some fill materials (cinders and coals), moist, no odor	0.0		
2.0'	14								
4.0'	6	S-3	4.0-6.0	10		2.0'	Dark brown, SILT and c SAND, some fill materials (cinders and coals), moist, no odor	0.0	
4.0'	10					As above, moist, no odor	0.0		
4.5'	5					Light brown to grey, SILT, some mf Sand, moist, no odor	0.0		
6.0'	4	S-4	6.0-8.0	17		4.5'	Light brown to grey, SILT, some mf Sand, moist, no odor	0.0	
6.0'	6					Blue slag (sulfur odor), some brown Silt, little mf Sand, moist, no odor	0.0		
6.0'	8								
8.0'	17	S-5	8.0-10.0	68		6.0'	Blue slag (sulfur odor), some brown Silt, little mf Sand, moist, no odor	0.0	
8.0'	30					Dark brown, SILT, little mf Sand, moist, no odor, blue slag (sulfur odor)	0.0		
8.0'	35								
10.0'	20	S-6	10.0-12.0	32		8.0'	Dark brown, SILT, little mf Sand, moist, no odor, blue slag (sulfur odor)	0.0	
10.0'	25					Light brown, SILT, trace Clay, blue slag, wet @ ~9.8' BGS, no odor	0.0		
10.0'	27								
12.0'						12.0'	As above	0.0	
13.6'						13.6'	NATIVE MATERIAL Light brown, SAND, some mf Sand, moist, no odor	0.0	
14.0'						14.0'	As above	0.0	
								0.0	
								0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of Boring = ~40.4 BGS
 Groundwater Encountered @ ~9.0' BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Target Drilling BORING LOCATION
 DRILLER Ben Saragusa GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE E. Dumrese START DATE 10/23/2008 END DATE 10/23/2008

TYPE OF DRILL RIG: Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17						16.0'	As above	0.0	
18								0.0	
19	2	S-7	18.0-20.0'	8		18.0'	Black, organic peat layer, some organic odors	0.0	
20	3					19.0'	Grey, SILT, trace f Sand, moist, no odor	0.0	
21	5								
22						20.0'	As above	0.0	
23								0.0	
24						22.0'	As above	0.0	
25								0.0	
26						23.0-25.0'	77	23.6'	Light brown, SILT and m SAND, wet, no odor
27	19	S-8	23.0-25.0'	77					
28	27								
29						24.0'	As above	0.0	
30								0.0	
31						26.0'	As above	0.0	
32								0.0	
33						28.6'	Light brown, SILT and m SAND, wet, no odor	0.0	
34	26	S-9	28.0-30.0'	78					
35	52								
36								0.0	
37								0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of Boring = ~40.4 BGS
 Groundwater Encountered @ ~9.0' BGS

GENERAL NOTES:
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CONTRACTOR: Target Drilling
 DRILLER Ben Saragusa
 LABELLA REPRESENTATIVE E. Dumrese

BORING LOCATION
 GROUND SURFACE ELEVATION
 START DATE 10/23/2008 END DATE 10/23/2008

DATUM

TYPE OF DRILL RIG: Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
33	46	S-10	33.6-35.0'	80	33.6'	Grey, mc SAND, saturated, no odor	0.0	
34	50/4				34.0'	As above	0.0	
35								
36					36.0'	As above	0.0	
37								
38					38.0'	As above	0.0	
39								
40					40.0'	As above	0.0	
41						Bottom @ ~40.4' BGS		
42								
43								
44								
45								
46								
47								
48								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of Boring = ~40.4 BGS
 Groundwater Encountered @ ~9.0' BGS

GENERAL NOTES:
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CONTRACTOR: Target Drilling BORING LOCATION
 DRILLER Ben Saragusa GROUND SURFACE ELEVATION DATUM
 LABELLA REPRESENTATIVE E. Dumrese START DATE 10/24/2008 END DATE 10/24/2008

TYPE OF DRILL RIG: Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
0.0'						Asphalt FILL MATERIAL	0.0	
0.2'						Crushed stone		
1.0'				N/A		Topsoil	0.0	
2.0'						Spoon bouncing-augering through obstruction	0.0	
4.0'	2	S-2	4.0-6.0'	4		Light brown, SILT, little vf Sand, trace Clay, moist, some blue slag, slight sulfur	0.0	
	2							
	3							
	4					NATIVE MATERIAL	0.0	
6.0'	2	S-3	6.0-8.0'	6		Light brown, SILT, trace vf Sand, moist, no odor	0.0	
	2							
	2							
8.0'	2	S-4	8.0-10.0'	6		Light brown, SILT, little Clay, trace vf Sand (some iron staining)	0.0	
	2							
	3							
	4							
10.0'	14	S-5	10.0-12.0'	45		As above	0.0	
	19							
	20							
13.5'						Brown, SILT, and m SAND, some assorted Gravel, wet, no odor	0.0	
14.0'						As above	0.0	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of Boring = ~26.0 BGS
 Groundwater Encountered @ ~12.5' BGS

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION
START DATE 10/23/2008

DATUM
END DATE 10/23/2008

TYPE OF DRILL RIG: Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17						16.0'	As above	0.0	
18								0.0	
19	28					18.5'	Grey, SILT, some mc Sand and assorted Gravel, wet, no odor	0.0	
20	36	S-6	18.0-20.0'	84				0.0	
21						20.0'	As above	0.0	
22								0.0	
23						22.0'	As above	0.0	
24								0.0	
25		S-7	25.0-26.0'	N/A		24.0'	As above	0.0	
26						25.0'	<u>GLACIAL TILL</u> Light brown, SILT, little mf Sand, wet, no odor	0.0	
27									
28									
29									
30									
31									
32									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of Boring = ~26.0 BGS
Groundwater Encountered @ ~12.5' BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Phase II Environmental Site Assessment

Port of Rochester
Rochester, New York

BORING **B08-5**
SHEET 1 of 1
JOB # 208453
CHKD. BY: ED

CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION
START DATE 10/27/2008 END DATE 10/27/2008

TYPE OF DRILL RIG: Rotary Drill Rig		WATER LEVEL DATA		
DATE	TIME	WATER	CASING	REMARKS

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'						0.0'	Asphalt FILL MATERIAL	0.0	
0.4'		S-1	0.0-2.0'	N/A		0.4'	Crushed stone, assorted fill materials (i.e., concrete, cinders, coarse gravel)	0.0	
3.0'		S-2	2.0-4.0'	N/A		3.0'	Light brown, SILT, little f to vf Sand, moist, no odor	0.0	
4.0'						4.0'	As above, no odor	0.0	
4.0-6.0'		S-3	4.0-6.0'	22				0.0	
6.0'		S-4	6.0-8.0'	16		6.0'	Grey, mc SAND, moist, no odor	0.0	
8.0'						8.0'	NATIVE MATERIAL	0.0	
8.0-10.0'		S-5	8.0-10.0'	8		8.0'	Light brown, SILT, little Clay, trace vf Sand, moist, no odor	0.0	
10.0'				N/A		10.0'	As above, moist, no odor	0.0	
12.0'						12.0'	As above, moist, no odor	0.0	
12.0-14.0'		S-7	12.0-14.0'	16		13.5'	Light brown, SILT, some Clay, moist, no odor	0.0	
15.0'				N/A			Bottom @ 15.0' BGS	0.0	

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of Boring = ~15.0 BGS
Groundwater Encountered @ ~12.5' BGS

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Phase II Environmental Site Assessment

Port of Rochester
Rochester, New York

BORING **B08-6**
SHEET 1 of 1
JOB # 208453
CHKD. BY: ED

CONTRACTOR: Target Drilling
DRILLER Ben Saragusa
LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION
GROUND SURFACE ELEVATION
DATUM
START DATE 10/27/2008 END DATE 10/27/2008

TYPE OF DRILL RIG: Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'						Asphalt	0.0	
0.4'						Crushed gravel	0.0	
			N/A			FILL MATERIAL		
2.0'	8	S-1	2.0-4.0'	9		Fill materials (i.e., brick, crushed stone, concrete)	0.0	
3.0'	4					Brown, SILT and m SAND, moist, no odor	0.0	
	5							
4.0'	8					Fill materials (i.e., brick and concrete), brown, to grey, mc SAND, some iron staining, moist, no odor	0.0	
	40							
6.0'	18	S-2	4.0-6.0'	22		As above, moist, no odor	0.0	
	4							
8.0'	6					As above, moist, no odor	0.0	
	6							
10.0'	4	S-3	6.0-8.0'	6		No Recovery	0.0	
	2							
12.0'	7					As above, no odor	0.0	
	12							
14.0'	14	S-4	8.0-10.0'	20		NATIVE MATERIAL Grey, SILT and CLAY, wet @ ~10.0' BGS	0.0	
	6							
16.0'	5					As above, no odor	0.0	
	1							
	2	S-5	10.0-12.0'	4		As above, no odor	0.0	
	2							
	3					As above, no odor	0.0	
	4							
	4	S-6	12.0-14.0'	7		As above, no odor	0.0	
	3							
	4					Bottom @ 14.0' BGS		

LEGEND

S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

Bottom of Boring = ~14.0 BGS
Groundwater Encountered @ ~10.0' BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **B08-6**

CONTRACTOR: Target Drilling BORING LOCATION
 DRILLER Ben Saragusa GROUND SURFACE ELEVATION - DATUM
 LABELLA REPRESENTATIVE E. Dumrese START DATE 10/27/2008 END DATE 10/27/2008

TYPE OF DRILL RIG: Rotary Drill Rig
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoon
 ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'						0.0'	Asphalt FILL MATERIAL	0.0	
0.3'						0.3'	Fill materials (i.e., crushed gravel, concrete, brick)		
0.6'						0.6'	Brown, mc SAND, some c Gravel, moist, no odor	0.0	
2.0'						2.0'	As above	0.0	
2.0-4.0'	2 4 20 50/4	S-2	2.0-4.0'	24				0.0	
4.0'	15 69	S-3	4.0-5.6'			4.0'	Concrete obstruction @ -3.8' BGS	0.0	
							<i>Refusal @ -5.6' BGS</i>	0.0	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bottom of Boring = -5.6 BGS Groundwater Not Encountered</p>
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Target Drilling BORING LOCATION
DRILLER Ben Saragusa GROUND SURFACE ELEVATION ~ DATUM
LABELLA REPRESENTATIVE E. Dumrese START DATE 10/27/2008 END DATE 10/27/2008

TYPE OF DRILL RIG: Rotary Drill Rig
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoon
ROCK DRILLING METHOD N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
0.0'						Asphalt	0.0	
0.3'						Crushed gravel		
1.0'						Light brown, SILT, some mf Sand, moist, no odor NATIVE MATERIAL	0.0	
2.0'						As above	0.0	
3.0'							0.0	
4.0'						Grey to brown, SILT, little Clay, moist, no odor	0.0	
5.0'							0.0	
6.0'						Grey to brown, SILT, some Clay, moist, no odor	0.0	
7.0'							0.0	
8.0'						<i>Bottom @ 8.0' BGS</i>		
9.0'								
10.0'								
11.0'								
12.0'								
13.0'								
14.0'								
15.0'								
16.0'								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of Boring = ~8.0 BGS
Groundwater Not Encountered

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 262.74' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/6/09 END DATE 7/6/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
						Ground Elevation: 262.74' Bottom Elevation: 217.00' Total Depth: 45.74'		
0.0'						Asphalt		
0.7'			1'-2'		0.9'	Brown, mc SAND, little Gravel, moist, no odor	0.0	
2.0'						As above, moist, no odor	0.0	
3.2'			2'-4'		1.0'	FILL MATERIALS Brown, mc SAND, (foundry sand), some cinders and coals, moist, no odor		
4.0'						As above, moist, no odor	0.0	
5.9'			4'-6'		1.2'	As above, some blue slag, moist, no odor		
6.0'						As above, wet @ ~6.5' bgs, sulfur odor	0.0	
8.0'			6'-8'		1.3'	BLUE SLAG Blue Slag, some cinders, coals, and foundry sand, wet, sulfur odor	0.4	
10.0'			8'-10'		0.7'	Blue slag, saturated, sulfur odor	6.3	
12.0'			10'-12'		0.5'	As above, saturated, no odor	2.8	
14.0'			12'-14'		0.9'	As above, saturated, no odor	0.0	
			14'-16'		1.1'			

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 262.74' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/6/09 END DATE 7/6/09

TYPE OF DRILL RIG: _____
AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES		
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)						
Ground Elevation: 262.74' Bottom Elevation: 217.00' Total Depth: 45.74'											
17	17		16'-18'		1.0'	16.0'	As above, saturated, no odor	0.0			
	10										
	7										
18	5		18'-20'		1.1'		<u>NATIVE SOIL</u>				
	2					18.0'	Dark grey to black, SILT, some Clay, saturated, burnt wood odor	0.0			
	18										
19	5		20'-22'		1.0'	19.2'	Rotten wood, burnt, saturated, burnt odor				
	7										
	3					20.0'	Brown, peat moss, some organic matter/roots, saturated, no odor	0.0			
21	3		22'-24'		1.3'						
	5										
	7										
22	7		25'-27'		0.9'	22.0'	As above, saturated, no odor	0.0			
	8										
	7					23.4'	Grey, SILT, some Clay and Gravel, wet, no odor				
24	12		30'-32'		1.4'		<u>STANDARD SAMPLING BEGINS 25.0' - 46.2'</u>				
	NA										
	9					25.0'	Light brown, SILT, some mf Sand and Gravel, wet, no odor	0.0			
26	11		NA					NA			
	12										
	12										
27	NA		NA					NA			
	NA										
	NA										
28	NA		NA					NA			
	NA										
	NA										
29	NA		NA					NA			
	NA										
	NA										
30	8		NA				<u>GLACIAL TILL</u>				
	8					30.0'	Light grey, SILT and mc SAND, some Gravel, saturated, no odor	0.0			
	13										
31	6										

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 262.74' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/6/09 END DATE 7/6/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 262.74' Bottom Elevation: 217.00' Total Depth: 45.74'		
32	NA						As above, saturated, no odor	NA	
	NA								
	NA								
33	NA								
	NA								
34	NA								NA
	NA								
35	NA								
	12								
36	14		35'-37'		0.7'	35.0'			0.0
	12								
37	22								
	NA								
38	NA							NA	
	NA								
39	NA								
	NA								
40	NA		40-42'		1.6'	40.0'	As above, saturated, no odor	0.0	
	24								
41	34								
	36								
42	28							NA	
	NA								
43	NA								
	NA								
44	NA							NA	
	NA								
45	NA								
	38					45.0'	As above, saturated, no odor	0.0	
46	100/4		45'-46'		0.7'				
							Bedrock Refusal @ ~46.2' BGS		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 46.2' bgs
 4.8' of fill materials (3.2'-8.0')
 10.0' of blue slag (8.0'-18.0')
 Native soil encountered @ 20.0' bgs
 Groundwater @ ~6.5' bgs

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-2**

SHEET 1 of 3

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.

DRILLER Neal Short

LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION

GROUND SURFACE ELEVATION 262.82'

DATUM NAVD88

START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
Ground Elevation: 261.82' Bottom Elevation: 225.00' Total Depth: 36.82'								
0.0'	NA					Asphalt (Augered to 1.0' bgs)	0.0	
1.0'	NA	1'-2'		0.8'		FILL MATERIALS		
1.0'	5					Black to grey, SILT, some mc Sand and Gravel, little cinders and coals, moist, r		
2.0'	7					odor		
2.0'	5					As above, moist, no odor	1.0	
3.2'	8	2'-4'		1.2'				
3.2'	14					As above, little blue slag, moist, no odor		
4.0'	20							
4.0'	5					Reddish to brown, mc SAND (foundry sand), some cinders, moist, no odor	1.6	
5.7'	10	4'-6'		1.0'				
5.7'	16					Brown, mc SAND, little Silt, wet @ ~ 5.7' bgs, no odor		
6.0'	18					BLUE SLAG		
6.0'	7	6'-8'		0.3'		Blue slag, wet, sulfur odor	0.0	
8.0'	6							
8.0'	7					As above, wet, sulfur odor	0.0	
10.0'	7	8'-10'		0.5'				
10.0'	3					As above, saturated, sulfur odor	0.0	
12.0'	7	10'-12'		0.6'				
12.0'	12					As above, saturated, sulfur odor	0.0	
12.0'	6							
12.0'	5	12'-14'		0.7'				
14.0'	6					As above, saturated, sulfur odor	0.0	
14.0'	3							
14.0'	6	14'-16'		0.3'				
14.0'	4							
14.0'	2							
14.0'	2							

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 262.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 261.82' Bottom Elevation: 225.00' Total Depth: 36.82'		
17	7		16'-18'		0.7'	16.0'	As above, saturated, sulfur odor	0.0	
18	12								
18	14								
18	15								
19	44		18'-20'		1.3'	18.0'	As above, saturated, sulfur odor	0.0	
19	29								
19	24								
20	9								
20	12					20.0'	As above, saturated, sulfur odor	0.0	
21	6		20'-22'		1.5'				
21	6						<u>NATIVE SOIL</u>		
22	7					21.5'	Brown, peat moss, some organic matter/roots, saturated, no odor		
22	5					22.0'	As above, saturated, slight sulfur odor	0.0	
23	6		22'-24'		2.0'				
23	6								
24	5								
24	3					24.0'	Brown, SILT and mc SAND, trace Clay, saturated, slight sulfur odor	0.0	
25	3		24'-26'		0.5'				
25	3								
26	5						<u>STANDARD SAMPLING BEGINS 26.0' - 36.0'</u>		
26	NA							NA	
27	NA								
27	NA								
28	NA								
28	NA								
29	NA		29'-31'		1.0'		<u>GLACIAL TILL</u>	0.0	
29	2					29.0'	Light brown, SILT, some mf Sand and angular Gravel, wet, no odor		
30	4								
30	8								
31	8							NA	
31	NA								
31	NA								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 262.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 261.82' Bottom Elevation: 225.00' Total Depth: 36.82'		
33	NA							NA	
34	NA								
35	37		34'-36'		1.5'	34.0'	As above, very dense, saturated, no odor	0.0	
36	42								
37	50								
38	54/0.2								
39									
40									
41									
42									
43									
44									
45									
46									
47									

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 36.0' bgs
 5.0' of fill materials (1.0'-6.0')
 15.5' of blue slag (6.0'-21.5')
 Native soil encountered @ 21.5' bgs
 Groundwater @ ~5.7' bgs

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.32' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (FEET)	SAMPLE				DEPTH (FEET)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
					Ground Elevation: 260.32' Bottom Elevation: 225.00' Total Depth: 35.32'			
1	NA				0.0'	Asphalt (Augered to 1.0' bgs)	0.0	
	NA					FILL MATERIALS		
	2		1'-2'		1.0'	Dark brown, SILT, some mf Sand, little cinders and coals, moist, no odor		
2	3							
	5				2.0'	As above, some foundry sand, moist, no odor	0.0	
3	10		2'-4'					
	24			1.7'				
4	35							
	27				4.0'	As above, moist, no odor	11.3	
5	17		4'-6'			BLUE SLAG		
	29			1.2'	5.2'	Blue slag, moist, sulfur odor		
6	22							
	11				6.0'	As above, wet @~6.5' bgs, sulfur odor	0.0	
7	18		6'-8'					
	11			1.1'				
8	8							
	6				8.0'	As above, saturated, sulfur odor	17.5	
9	10		8'-10'					
	12			0.9'				
10	7							
	4				10.0'	As above, saturated, sulfur odor	0.0	
11	4		10'-12'					
	4			0.6'				
12	7							
	6				12.0'	As above, saturated, sulfur odor	0.0	
13	5		12'-14'					
	4			0.5'				
14	8							
	11				14.0'	As above, saturated, sulfur odor	0.0	
15	8		14'-16'					
	20			0.9'				
16	20							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-3**
SHEET 2 of 3
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 260.32' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
Ground Elevation: 260.32' Bottom Elevation: 225.00' Total Depth: 35.32'									
17	12		16'-18'		1.0'	16.0'	As above, saturated, sulfur odor	2.7	
	11								
	14								
18	15		18'-20'		1.5'	18.0'	As above, saturated, sulfur odor	1.1	
	13								
	14								
19	15		20'-22'		1.3'	20.0'	As above, saturated, sulfur odor	0.0	
20	4								
21	4								
22	3		22'-24'		2.0'	21.5'	Brown, peat moss, some organic matter/roots, saturated, no odor	42.0	
	3								
	5								
23	6		24'-26'		1.5'	22.0'	As above, saturated, slight sulfur odor	0.0	
	6								
	5								
24	4		29'-31'		1.7'	24.0'	As above, saturated, no odor	0.0	
25	4								
26	4								
27	NA		<u>STANDARD SAMPLING BEGINS 26.0' - 36.0'</u>				29.0'	Grey, SILT, little Clay and f Sand, saturated, no odor	NA
28	NA								
29	NA								
30	1		29'-31'		1.7'	29.0'	Grey, SILT, little Clay and f Sand, saturated, no odor	0.0	
	2								
	2								
31	3							NA	
	NA							NA	
	NA							NA	

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-3**
SHEET 3 of 3
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 260.32' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
33	NA					Ground Elevation: 260.32' Bottom Elevation: 225.00' Total Depth: 35.32' GLACIAL TILL Light brown, SILT, some mc Sand, little angular Gravel, saturated, no odor	NA	
34	NA				34.0'		0.0	
35	1			1.5'	34'-36'			
36	15							
37	20					Bottom @ 36.0' bgs		
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 36.0' bgs 4.2' of fill materials (1.0'-5.2') 16.3' of blue slag (5.2'-21.5') Native soil encountered @ 21.5' bgs Groundwater @ ~6.5' bgs
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 261.78' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/25/09 END DATE 6/25/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 261.78' Bottom Elevation: 225.00' Total Depth: 36.78'			
1	NA		1'-2'		0.7'	0.0'	Asphalt - Not sampled (augered to 1.0' bgs)	0.0	
2	9					1.0'	Brown to grey, mc SAND, SILT, and GRAVEL, moist, no odor		
3	10					2.0'	As above, moist, no odor	0.0	
4	6		2'-4'		1.3'				
5	10					4.0'	As above, moist, no odor	0.0	
6	12					5.5'	<u>FILL MATERIALS</u> As above, some cinders, coals, and bricks, moist, no odor		
7	31		4'-6'		1.0'	6.0'	As above, moist, no odor	0.0	
8	9					7.0'	As above, moist, no odor		
9	14					8.0'	As above, wet @ 7.0' bgs, no odor	0.0	
10	10		6'-8'		1.2'				
11	16					8.0'	As above, wet, no odor	0.0	
12	15					9.5'	<u>BLUE SLAG</u> Blue slag, wet, slight sulfur odor		
13	8		8'-10'		0.9'	10.0'	As above, wet, sulfur odor	0.0	
14	8					12.0'	As above, wet, sulfur odor	0.0	
15	4		10'-12'		0.4'				
16	5					14.0'	As above, saturated, sulfur odor	0.0	
17	6		12'-14'		0.5'				
18	6								
19	25		14'-16'		0.3'				
20	5								
21	7								
22	7								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-4

SHEET 2 OF 3

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 261.78'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/25/09

END DATE 6/25/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: 261.78' Bottom Elevation: 225.00' Total Depth: 36.78'		
17	17		16'-18'		0.8'	16.0'	As above, saturated, no odor	0.0	
	10								
	7								
18	5								
	9		18'-20'		0.4'	18.0'	As above, saturated, no odor	0.0	
	5								
	7								
20	20								
	16		20'-22'		0.6'	20.0'	As above, saturated, no odor	0.0	
	6								
	8						NATIVE SOIL		
22	8					21.8'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	2		22'-24'		1..3'	22.0'	As above, some grey mc Sand, saturated, slight sulfur odor	0.0	
	4								
	4								
24	5								
	2		24'-26'		0.4'	24.0'	As above, saturated, no odor	0.0	
	3								
	3								
26	5								
	NA						STANDARD SAMPLING BEGINS 26.0' - 37.0'	NA	
27	NA								
	NA								
28	NA								
	NA								
29	NA								
	NA								
30	3								
	4		30'-32'		1.0'	30.0'	Greyish to brown, SILT, little mf Sand and Clay, saturated, no odor	0.0	
	4								
	4								

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK

ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-4**

SHEET 3 OF 3

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 261.78'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/25/09

END DATE 6/25/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
							Ground Elevation: 261.78' Bottom Elevation: 225.00' Total Depth: 36.78'			
33	NA						Light brown, SILT, little mf Sand, saturated, no odor	NA		
	NA									
	NA									
34	NA									
	NA									
35	NA		35'-37'		0.9'	35.0'			0.0	
	2									
36	2									
	2									
37	2								NA	
							Bottom @ 37.0' bgs			
38										
39										
40										
41								NA		
42										
43								NA		
44										
45								NA		
46										
47								NA		

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

- Bottom of boring @ 37.0' bgs
- 4.0' of fill materials (5.5'-9.5')
- 12.3' of blue slag (9.5'-21.8')
- Native soil encountered @ 21.8' bgs

Groundwater @ ~7.0' bgs

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NEW YORK
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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-5**

SHEET 1 of 3

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 255.25' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/25/09 END DATE 6/25/09

TYPE OF DRILL RIG: _____
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 260.77' Bottom Elevation: 213.00' Total Depth: 47.77'			
1	NA				0.0'	Asphalt - Not sampled (augured to 1.0' bgs)	0.0		
	NA					RE-WORKED NATIVE			
	10		1'-2'	0.8'	1.0'	Light brown, mc SAND and GRAVEL, dry no odor			
2	10								
	7				2.0'	As above, dry, no odor	0.0		
3	7		2'-4'	1.5'					
	8								
4	9				3.5'	Grey to dark brown, SILT, little mf Sand, moist, no odor			
	2				4.0'	As above, moist, no odor	0.0		
5	4		4'-6'	1.3'		FILL MATERIALS			
	4				5.0'	Dark brown, SILT, some mf Sand and coals, cinders, ash, bricks, and blue slag			
6	7								
	8				6.0'	Red, crushed sandstone, moist, no odor	0.0		
7	10		6'-8'	1.0'					
	4								
8	4				7.5'	Light brown, SILT, some mf Sand, moist, no odor			
	2					SLAG			
9	3		8'-10'	0.3'	8.0'	Grey slag, wet @ ~8.0' bgs, slight sulfur odor	0.0		
	4								
10	5								
	3				10.0'	Light brown to brown, SILT, some mc Sand and Gravel, saturated, no odor	0.0		
11	1		10'-12'	0.5'					
	2								
12	1								
	3				12.0'	Blue slag, saturated, sulfur odor	0.0		
13	4		12'-14'	0.5'					
	6								
14	8								
	11				14.0'	Mixed blue slag and dark brown, SILT and mf SAND, some gravel, saturated, no odor	0.0		
15	4		14'-16'	1.2'					
	4								
16	7								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK

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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-5

SHEET 2 OF 3

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.77' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/25/09 END DATE 6/25/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
						Ground Elevation: 260.77' Bottom Elevation: 213.00' Total Depth: 47.77'		
17	3		16'-18'	0.8'	16.0'	Blue slag, some brown, mc Sand, saturated, sulfur odor	0.0	
	13							
	12							
18	14		18'-20'	0.7'	18.0'	As above, saturated, sulfur odor	0.0	
	10							
	13							
19	3		20'-22'	1.0'	20.0'	As above, saturated, sulfur odor	0.0	
	11							
	14							
20	11		22'-24'	1.1'	22.0'	Grey, SILT, little mf Sand, saturated, slight sulfur odor	0.0	
	6							
	5							
21	7		24'-26'	0.8'	23.5'	Brown, peat moss, some organic matter/roots, saturated, slight sulfur odor	0.0	
	8							
	4							
22	4		26'-28'	1.3'	24.0'	As above, saturated, no odor	0.0	
	4							
	4							
23	5		30'-32'	1.6'	25.0'	Grey to brown, SILT, some f Sand, saturated, no odor	0.0	
	5							
	5							
24	6				26.0'	As above, saturated, no odor	0.0	
25	6							
26	5							
27	5							
28	6							
29	NA							
30	NA							
31	2				30.0'	Grey, SILT, little Clay and f Sand, saturated, no odor	0.0	
	3							
	4							
	6							

NATIVE SOIL

STANDARD SAMPLING BEGINS 28.0' - 47.5'

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK

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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-5**

SHEET 3 OF 3

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.77' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/25/09 END DATE 6/25/09

TYPE OF DRILL RIG:				WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS				

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					Ground Elevation: 260.77'	Bottom Elevation: 213.00'	Total Depth: 47.77'
33	NA							NA	
34	NA							0.0	
35	1		35'-37'	1.6'	35.0'		Light brown, SILT, little f Sand, saturated, no odor		
36	3							NA	
37	4								
38	NA							NA	
39	NA								
40	NA						GLACIAL TILL		
41	1		40'-42'	1.2'	40.0'		Light brown, SILT, little f Sand and Gravel, saturated, no odor	0.0	
42	1								
43	NA							NA	
44	NA								
45	12		45'-47'	0.3'	45.0'		Black shale pieces, saturated, no odor	0.0	
46	21								
47	22		47'-47.5'	0.5'	47.0'		As above, wet, no odor	0.0	
	50/.5				47.5'		Red, weathered sandstone (bedrock) @ ~47.5' bgs		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring (bedrock) @ ~47.5' bgs
 3.0' of fill materials (5.0'-8.0')
 14.0' of blue slag (8.0'-22.0')
 Native soil @ 22.0' bgs

WH = Weight of Hammer
 WR = Weight of Rods

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.65' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/24/09 END DATE 6/24/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 255.25' Bottom Elevation: 203.00' Total Depth: 52.25'			
0.0'	NA					0.0'	Asphalt - Not sampled (augered to 1.0' bgs)	0.0	
1.0'	14		0'-2'		0.8'	1.0'	Light brown, m SAND and c GRAVEL, dry, no odor		
2.0'	13					2.0'	As above, moist, no odor	0.0	
2.0'	14		2'-4'		1.5'				
4.0'	8					4.0'	As above, wet @-8.5' bgs, no odor	0.0	
4.0'	6		4'-6'		0.5'				
6.0'	2					6.0'	As above, wet, no odor	0.0	
6.0'	3		6'-8'		0.6'				
8.0'	2					8.0'	As above, saturated, no odor	0.0	
8.0'	1		8'-10'		0.2'				
10.0'	2					10.0'	As above, saturated, no odor	0.0	
10.0'	2		10'-12'		0.1'				
12.0'	2					12.0'	As above, saturated, no odor	0.0	
12.0'	5		12'-14'		0.6'				
13.8'	3					13.8'	BLUE SLAG Blue slag, saturated, sulfur odor		
14.0'	5					14.0'	As above, saturated, sulfur odor	0.0	
14.0'	3		14'-16'		0.6'				
15.0'	5								
15.0'	8								
16.0'	8								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING B09-6
SHEET 2 of 2
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 257.65' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/24/09 END DATE 6/24/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 255.25' Bottom Elevation: 203.00' Total Depth: 52.25'			
17	9					16.0'	As above, saturated, sulfur odor	0.0	
	3		16'-18'		0.9'				
	4								
18	9					18.0'	As above, saturated, sulfur odor	0.0	
	5		18'-20'		1.0'				
19	5					19.7'	<u>NATIVE SOIL</u> Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	3					20.0'	As above, saturated, slight sulfur odor	0.0	
20	3								
21	2		20'-22'		1.2'				
	3								
22	2					22.0'	As above, some dark brown, SILT, saturated, no odor	0.0	
23	2		22'-24'		2.0'	23.0'	Dark brown, SILT, trace Clay, saturated, no odor		
	3								
24	NA						<u>STANDARD SAMPLING BEGINS 24.0' - 32.0'</u>	0.0	
25	NA		25'-27'		1.9'	25.0'	As above, saturated, no odor		
	2								
26	2								
	2								NA
27	NA								
	NA								
28	NA								NA
	NA								
29	NA								
	NA								
30	NA								
	WHH					30.0'	Dark brown, SILT, little Clay, saturated, no odor	0.0	
31	1		30'-32'		1.9'	31.5'	Wood fragments		
	3					31.8'	Dark brown, SILT, little Clay, saturated, no odor	0.0	
	4								

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE</p> <p>U - UNDISTURBED SOIL SAMPLE</p> <p>C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bottom of boring @ 32.0' bgs</p> <p>5.9' of Blue Slag (13.8'-19.7' bgs)</p> <p>Native soil encountered @ 19.7' bgs</p> <p>WH = Weight of Hammer Groundwater @ ~5.5' bgs</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 256.89' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/24/09 END DATE 6/24/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	1					Topsoil - Grass, roots - not sampled	0.0	
0.3'	3		0'-2'		1.5'	Brown, SILT, some mf Sand, moist, no odor		
1.3'	11					Some black asphalt pieces		
1.5'	6					Light brown, SILT, some mf Sand, moist, no odor		
2.0'	15					As above, moist, no odor	0.0	
2.2'	9		2'-4'		0.7'	FILL MATERIALS		
2.2'	9					Brown, SILT, little mf Sand and blue slag, coals, cinders, and brick, moist, no odor		
4.0'	8					BLUE SLAG		
4.0'	6					Blue slag, moist, sulfur odor	0.0	
4.0'	6		4'-6'		0.2'			
6.0'	5							
6.0'	4					Brown, SILT and mc SAND, some blue slag, coals and cinders, moist, no odor	0.0	
6.0'	2		6'-8'		0.5'			
6.0'	2							
8.0'	4					No Recovery	NA	
8.0'	10		8'-10'		0.0'			
8.0'	9							
8.0'	13							
10.0'	10					Blue Slag, saturated @~10.0' bgs, no odor	0.0	
10.0'	7		10'-12'		1.3'	NATIVE SOIL		
11.3'	2					Dark brown, SILT, some organic matter, little f Sand, wet, no odor		
12.0'	2							
12.0'	4					Grey, SILT and mf SAND, little Gravel, saturated, no odor	0.0	
12.0'	4		12'-14'		2.0'			
13.2'	5					Grey to red, mc SAND, some brown, SILT, saturated, no odor		
14.0'	4							
14.0'	1					Light brown, SILT, some mf Sand, saturated, no odor, some iron staining	0.0	
14.0'	3		14'-16'		1.2'			
14.0'	3							
14.0'	4							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 256.89' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/24/09 END DATE 6/24/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
	NA						Ground Elevation: 256.89' Bottom Elevation: 225.00' Total Depth: 31.89' STANDARD SAMPLING BEGINS 16.0' - 31.0' As above, saturated, no odor Light grey to brown, SILT, some mf Sand and Gravel, wet, no odor As above, wet, no odor Bottom @ 31.0' bgs	NA	
17	NA							0.0	
18	NA								
19	NA		19'-21'		1.2'	19.0'			
20	50/.4								NA
21	NA								
22	NA								NA
23	NA								
24	11					24.0'			0.0
25	4		24'-26'		2.0'				
26	50/.2								NA
27	NA								
28	NA								0.0
29	NA		29'-31'		2.0'	29.0'			
30	8								0.0
31	36								
	50/.4								0.0

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
1.8' of Fill Materials including Blue Slag (2.2'-4.0' bgs)
7.3' of Blue Slag (4.0'-11.3' bgs)
Native Soil @~11.3' bgs
Groundwater @~10.0' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 256.00' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/24/09 END DATE 6/24/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
						Ground Elevation: 256.00'	Bottom Elevation: 225.00'	Total Depth: 31.00'		
1	NA		0'-2'		0.9'	0.0'	Asphalt - not sampled (augured to 1.0' bgs)	0.0		
	NA					1.0'	Brown, mc SAND and GRAVEL, dry, no odor			
2	19		2'-4'		1.5'	2.0'	As above, dry, no odor	0.0		
	15					3.3'	Light brown, SILT, some mf Sand, moist, no odor, trace brick			
3	17		4'-6'		0.9'	4.0'	As above, wet @~5.5' bgs	0.0		
	11					5.8'	BLUE SLAG Blue slag, wet, sulfur odor			
4	6		6'-8'		1.5'	6.0'	Blue slag and light brown, mf SAND, wet, sulfur odor	0.0		
	3					8.0'	As above, some white ash, saturated, sulfur odor			
5	2		8'-10'		1.5'	10.0'	As above, saturated, sulfur odor	0.0		
	72					11.7'	Blue slag, saturated, sulfur odor			
6	50/1		12'-14'		1.0'	12.0'	As above, saturated, sulfur odor	0.0		
	7					14.0'	No Recovery			
7	14		14'-16'		0.0'	14.0'	As above, saturated, sulfur odor	NA		
	11					14.0'	As above, saturated, sulfur odor			
8	7									
9	5									
10	11									
11	16									
12	15									
13	10									
14	24									
15	25									
16	30									
17	12									
18	18									
19	5									
20	6									
21	3									
22	3									
23	3									
24	3									

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 256.00'	DATUM <u>NAVD88</u>	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/24/09	END DATE 6/24/09	

TYPE OF DRILL RIG: _____	WATER LEVEL DATA			
AUGER SIZE AND TYPE 4.25-Inch ID	DATE	TIME	WATER	CASING
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>				
ROCK DRILLING METHOD				

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
							Ground Elevation: Bottom Elevation: Total Depth: 256.00' 225.00' 31.00'			
17	3		16'-18'		0.3'	16.0'	As above, saturated, sulfur odor	0.0		
	5									
	2									
18	3		18'-20'		0.7'	18.0'	As above, saturated, sulfur odor	0.0		
	7									
19	3									
	7		20'-22'		1.2'	19.3'	Wood fragments, saturated, sulfur odor	0.0		
20	6									
	6									
21	3		22'-24'		1.8'	20.0'	As above, saturated, sulfur odor	0.0		
	3									
	3									
22	4		24'-26'		2.0'	21.3'	<u>NATIVE SOIL</u> Brown, peat moss, some organic matter/roots, saturated, sulfur odor	0.0		
	23									
23	2									
	3		29'-31'		2.0'	22.0'	Dark brown, SILT, little mf Sand, trace Clay, saturated, no odor	0.0		
	3									
24	3									
25	2		29'-31'		2.0'	24.0'	As above, saturated, no odor	0.0		
	3									
	2									
26	4		29'-31'		2.0'	<u>STANDARD SAMPLING BEGINS 26.0' - 31.0'</u>			NA	
	NA									
27	NA									
	NA		29'-31'		2.0'	29.0'	Dark brown, SILT, trace f Sand and Clay, saturated, no odor	0.0		
28	NA									
	NA									
29	1		29'-31'		2.0'	29.0'	Dark brown, SILT, trace f Sand and Clay, saturated, no odor	0.0		
	3									
30	3									
31	4		<i>Bottom @ 31.0' bgs</i>							

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: 15.5' of Blue Slag (5.8'-21.3' bgs) Native Soil @~21.3' bgs Groundwater @~5.5' bgs
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-9**
SHEET 1 of 3
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 255.25' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/23/09 END DATE 6/23/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 255.25' Bottom Elevation: 203.00' Total Depth: 52.25'		
1	2					0.0'	Topsoil - Not sampled	0.0	
	9		1'-2'		1.6'		BLUE SLAG & FILL MATERIALS		
	2					0.6'	Brown, SILT, some mf Sand and blue slag, moist, sulfur odor		
2	12								
	9					2.0'	Brown, SILT, little mc Sand some cinders and brick, moist, no odor	0.0	
3	14		2'-4'		1.8'				
	11								
4	9						FOUNDRY SAND		
	6					4.0'	Assorted cinders and bricks within foundry sand	0.0	
5	7		4'-6'		1.2'				
	6					5.5'	Ash and blue slag, moist, sulfur odor		
6	5								
	17					6.0'	Crushed rock, some cinders, moist, no odor	0.0	
7	50/2		6'-8'		0.8'				
8							BLUE SLAG & FILL MATERIALS		
	17					8.0'	Blue slag, saturated, sulfur odor	0.0	
9	19		8'-10'		0.9'				
	9								
10	9								
	7					10.0'	As above, saturated, sulfur odor	0.0	
11	8		10'-12'		0.4'				
	3								
12	10								
	12					12.0'	As above, little crushed black slag, saturated sulfur odor	0.0	
13	15		12'-14'		0.6'				
	10								
14	5								
	1					14.0'	As above, saturated, sulfur odor	0.0	
15	2		14'-16'		1.2'		NATIVE SOIL		
	5					14.3'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
16	5					15.5'	Grey, mc SAND, saturated, no odor		

LEGEND

S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK

ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-9

SHEET 2 OF 3

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 254.51'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/23/09

END DATE 6/23/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: 255.25' Bottom Elevation: 203.00' Total Depth: 52.25'		
17	5		16'-18'		1.9'	16.0'	Grey, mc SAND, saturated, no odor	0.0	
18	7					18.0'	As above, saturated, no odor	0.0	
19	5		18'-20'		1.6'	18.5'	Grey, SILT and peat moss, wet, no odor		
20	4						STANDARD SAMPLING BEGINS 20.0' - 50.0'		
21	1		20'-22'					NA	
22	2								
23	4		22'-24'					NA	
24	4								
25	NA		24'-26'			25.0'	Grey, SILT, little f Sand and peat moss, saturated, no odor	0.0	
26	NA								
27	3		26'-28'					NA	
28	3								
29	7		28'-30'					NA	
30	NA								
31	NA		30'-32'			30.0'	As above, saturated, no odor	0.0	
	1								
	1								
	3								
	3								

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 254.51' DATUM
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/23/09 END DATE 6/23/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
						Ground Elevation: 255.25' Bottom Elevation: 203.00' Total Depth: 52.25'				
33	NA		32'-34'			35.0'	Greyish brown, SILT, trace f Sand and Clay, saturated, no odor	NA		
	NA									
34	NA									
35	NA		34'-36'			35.0'	Greyish brown, SILT, trace f Sand and Clay, saturated, no odor	NA		
	NA									
36	3									0.0
	4		36'-38'			35.0'	Greyish brown, SILT, trace f Sand and Clay, saturated, no odor	NA		
37	3									
	4									
38	NA		38'-40'			35.0'	Greyish brown, SILT, trace f Sand and Clay, saturated, no odor	NA		
	NA									
39	NA									
40	NA		40'-42'			40.0'	As above, saturated, no odor	NA		
	NA									
41	WR									0.0
	WR		42'-44'			40.0'	As above, saturated, no odor	NA		
42	1									
	1									
43	NA		44'-46'			45.0'	Reddish brown, mc SAND, some Silt and c Gravel, saturated, no odor	NA		
	NA									
44	NA									
45	NA		46'-48'			45.0'	Reddish brown, mc SAND, some Silt and c Gravel, saturated, no odor	NA		
	WR									0.0
46	2									
	3		48.0'			48.0'	Weathered bedrock encountered @ ~48.0' bgs *	NA		
47	4									
	NA									
	NA		50.0'			50.0'	Compotent bedrock encountered @ ~50.0' bgs *			

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 50.0' bgs 7.7' of fill materials including blue slag (0.6'-8.1') Native soil encountered @ 14.3' bgs * Unable to visually confirm depths to bedrock due to equipment complications.	WH = Weight of Hammer WR = Weight of Rods 6.3' of blue slag (8.0'-14.3')
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.07' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'						0.0'	Ground Elevation: 260.07' Bottom Elevation: 216.00' Total Depth: 44.07'		
1.0'	4		1'-2'		1.5'	0.0'	FILL MATERIAL Black to brown, mc SAND and Coals, Cinders, Brick, moist, no odor	0.0	
2.0'	4					2.0'	NATIVE SOIL Light brown, SILT, little f Sand, moist, no odor	0.0	
3.0'	4					3.0'	As above, moist, no odor, some iron staining	0.0	
4.0'	5		2'-4'		1.5'	4.0'	As above, moist, no odor, some iron staining	0.0	
5.0'	3					5.0'	Light brown, SILT, little f Sand, trace Clay, moist, no odor, some iron staining	0.0	
6.0'	4					6.0'			
7.0'	4		6'-8'		1.4'	7.0'	As above, wet @ ~7.7' bgs	0.0	
8.0'	1					8.0'	As above, wet, no odor	0.0	
9.0'	3					8'-10'		1.0'		9.0'	STANDARD SAMPLING BEGINS 10.0' - 46.7'	0.0
10.0'	4		10.0'	0.0					
11.0'	NA		11.0'	0.0					
12.0'	NA		13'-15'		0.4'	12.0'	Light brown, SILT, some Clay, little mf Sand, wet, no odor	0.0	
13.0'	3					13.0'		0.0	
14.0'	8					14.0'		0.0	
15.0'	11					15.0'		0.0	
16.0'	14					16.0'		0.0	
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.07' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 260.07' Bottom Elevation: 216.00' Total Depth: 44.07'		
17	NA							NA	
	NA								
	NA								
18	NA						GLACIAL TILL		
19	2		18'-20'		1.0'	18.0'	Light brown, SILT, little mf Sand and angular Gravel, saturated, no odor	0.0	
	10								
	13								
20	46					19.8'	Some weathered reddish to brown bedrock (sandstone), wet no odor		
	NA							NA	
21	NA								
	NA								
22	NA								
	NA								
23	11		23'-25'		1.8'	23.0'	Light brown, mc SAND and SILT, little Clay and angular Gravel, saturated, no odor	0.0	
	19								
24	19								
	17							NA	
25	NA								
	NA								
26	NA								
	NA							NA	
27	NA								
	NA								
28	3					28.0'	Greyish to light brown, SILT, some mc Sand and Gravel, saturated, no odor	0.0	
	8		28'-30'		1.7'				
29	12								
	23								
30	NA								
	NA							NA	
31	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 260.07' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 260.07' Bottom Elevation: 216.00' Total Depth: 44.07'		
33	NA		33'35'		1.2'	33.0'	As above, saturated, no odor	0.0	
	NA								
	12								
34	22								
35	25							NA	
	26								
36	NA							NA	
	NA								
37	NA							NA	
	NA								
38	NA								
	14					38.0'	As above, saturated, no odor	0.0	
39	22		38'-40'		1.6'				
	32								
	49								
40	NA							NA	
	NA								
41	NA							NA	
	NA								
42	NA								
	NA								
43	NA		43'-45'		2.0'	43.0'	Grey, SILT, some mc Sand, saturated, no odor	0.0	
	19								
	40								
44	50/24								
45			45'-47'		0.6'	45.0'	Reddish to brown, SILT and mc SAND, some Gravel, saturated, no odor	0.0	
46						46.5'	Weathered reddish bedrock (sandstone), moist, no odor	0.0	
							<i>Bedrock Refusal @ 46.7' bgs</i>		
47									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring (bedrock) @ ~46.7' bgs 2.0' of fill materials (0.0'-2.0') Native soil @ 2.0' bgs Groundwater @ ~7.0' bgs
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 258.76' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/8/09 END DATE 7/8/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 258.76' Bottom Elevation: 225.00' Total Depth: 33.76'		
1	NA		1'-2'		0.9'	0.0'	Asphalt (augered to 1.0' bgs)	0.1	
	NA					1.0'	FILL MATERIALS		
2	7		2'-4'		1.6'	1.0'	Dark brown, SILT, some mf Sand, Gravel, blue slag, cinders, ash, and coals moist, no odor	0.0	
	8					2.0'	As above, moist, no odor		
3	8		4'-6'		0.6'	4.0'	BLUE SLAG	0.0	
	7					4.0'	Blue slag, moist, sulfur odor		
4	8		6'-8'		0.8'	6.0'	As above, moist, sulfur odor	1.1	
	20					6.9'	RE-WORKED NATIVE (POSSIBLY BACKFILL)		
5	3		8'-10'		1.7'	8.0'	Light brown, mc SAND, little Silt, moist, slight sulfur odor	0.7	
	9					8.0'	As above, moist, no odor		
6	9		10'-12'		1.3'	10.0'	As above, moist, no odor	0.0	
	2					11.0'	As above, wet @ ~11.0' bgs		
7	2		12'-14'		2.0'	11.6'	Light brown, SILT, some mf Sand, wet, no odor	0.0	
	17					12.0'	As above, saturated, no odor		
8	9		14'-16'		1.8'	14.0'	NATIVE SOIL	0.0	
	2					14.0'	Grey to brown, SILT and CLAY, trace f Sand, saturated, no odor		
9	2					15.2'	Grey, mc SAND, some Silt, trace Clay, saturated, no odor		

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: WH = Weight of Hammer

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 258.76' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/8/09 END DATE 7/8/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 258.76' Bottom Elevation: 225.00' Total Depth: 33.76'		
17	2		16'-18'		2.0'	16.0'	As above, saturated, no odor	0.0	
	2					17.3'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	2								
18	3		18'-20'		1.5'	18.0'	As above, wet, no odor	0.0	
	3								
	2								
19	2		23'-25'		1.5'	23.0'	Grey to brown, mc SAND, some Silt, little c Gravel, wet, no odor	0.0	
	2								
	1								
20	NA						<u>STANDARD SAMPLING BEGINS 20.0' - 34.0'</u>		
21	NA							NA	
22	NA							0.0	
23	NA							NA	
24	2							0.0	
25	3							NA	
26	4							NA	
27	6							NA	
28	NA							NA	
29	NA							NA	
30	NA							NA	
31	NA							NA	
	14		28'-30'		0.1'	28.0'	As above, saturated, no odor	0.0	
	13								
	16								
	22								
	NA							NA	
	NA							NA	
	NA							NA	
	NA							NA	

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 258.76' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/8/09 END DATE 7/8/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 258.76' Bottom Elevation: 225.00' Total Depth: 33.76'		
33	NA		33'-35'	1.3'	33.0'	GLACIAL TILL Light brown to grey, mc SAND and SILT, little c Gravel, saturated, no odor	0.0		
	NA								
	22								
34	35								
	36								
35	39								
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:
Bottom of boring @ 34.0' bgs
3.0' of fill materials (1.0'-4.0' bgs)
2.9' of blue slag (4.0'-6.9' bgs)
7.1' of Re-worked Native Soil (possibly backfill) (6.9'-14.0' bgs)
Native Soil @ 14.0' bgs
Groundwater @ ~ 11.0' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.55' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	NA					0.0'	Asphalt - Not Sampled (Augered to 1.0' bgs)	0.0	
1.0'	NA		1'-2'		0.8'	1.0'	FILL MATERIALS Brown, SILT and mc SAND, little cinders and coals, moist, no odor		
2.0'	15					2.0'	Crushed brick	0.0	
2.5'	16		2'-4'		1.7'	2.5'	RE-WORKED NATIVE SOIL Light brown, mc SAND, trace Silt, moist, no odor		
4.0'	23					4.0'	As above, moist, no odor	0.0	
4.0'	15								
4.0'	12		4'-6'		1.4'				
4.0'	3								
4.0'	3								
6.0'	3					6.0'	As above, moist, no odor	0.0	
6.0'	2								
6.0'	2		6'-8'		1.0'				
6.0'	3								
8.0'	2					8.0'	As above, wet @-8.0' bgs, no odor	0.0	
8.0'	3		8'-10'		0.8'				
8.0'	4								
8.0'	5								
10.0'	2					10.0'	Brown, SILT and mc SAND, little c Gravel, wet, no odor	0.0	
10.0'	3		10'-12'		0.9'				
10.0'	2								
12.0'	2					12.0'	As above, saturated, no odor	0.0	
12.0'	1								
12.0'	1		12'-14'		2.0'	13.5'	Grey, mc SAND, little Silt, saturated, no odor		
12.0'	2								
12.0'	3								
14.0'	2					14.0'	As above, saturated, no odor	0.0	
14.0'	1		14'-16'		1.5'				
14.0'	1								
14.0'	1								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 257.55' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/7/09 END DATE 7/7/09

TYPE OF DRILL RIG: _____ AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 257.55' Bottom Elevation: 225.00' Total Depth: 32.55'			
17	1		16'-18'		2.0'	16.0'	As above, saturated, no odor	0.0	
	2								
18	2								
19	1		18'-20'		1.5'	18.0'	As above, saturated, no odor	0.0	
	3								
	3								
20	3					18.5'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
21	1		20'-22'		2.0'	20.0'	As above, wet, no odor	0.0	
	2								
	3								
22	3								
23	4		22'-24'		1.7'	22.0'	As above, wet, no odor	0.0	
	4								
	5								
24	6								
25	NA		25'-27'		1.8'	25.0'	As above, wet, no odor	0.0	
	NA								
	2								
26	3								
27	4							NA	
	NA								
28	NA								
	NA								
29	NA								
	NA								
30	NA								
	WR					30.0'	<u>GLACIAL TILL</u> Grey, SILT, little f Sand and angular Gravel, saturated, no odor	0.0	
31	1		30'-32'		2.0'				
	1								
	2								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 32.0' bgs 1.5' of fill materials from (1.0'-2.5') 16.0' of re-worked native soil from 2.5'-18.5' bgs Native soil @ 18.5' bgs Groundwater @ ~8.0' bgs WR = Weight of Rods
---	---

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 255.74' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/8/09 END DATE 7/8/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 255.74' Bottom Elevation: 225.00' Total Depth: 30.74'		
1	NA		1'-2'		0.7'	0.0'	Asphalt - Not Sampled (Augered to 1.0' bgs)	0.0	
	NA					1.0'	FILL MATERIALS		
	8					Dark brown, SILT, little mf Sand, coals, and cinders, moist, no odor			
2	7		2'-4'		1.7'	2.0'	As above, moist, no odor	0.0	
3	12					3.3'	RE-WORKED NATIVE SOIL (POSSIBLY BACKFILL)		
	14					Light brown, mc SAND, little Silt, moist, no odor			
4	14		4'-6'		1.4'	4.0'	As above, moist, no odor	0.0	
5	4								
	3								
6	3		6'-8'		0.0'	6.0'	No Recovery	NA	
7	4								
	4								
8	2		8'-10'		<0.1'	8.0'	AS above, wet @-8.0' bgs, no odor	0.0	
9	3								
	4								
10	3		10'-12'		1.4'	10.0'	Grey, mc SAND, saturated, no odor	0.0	
11	2								
	2								
12	2		12'-14'		2.0'	12.0'	As above, saturated, no odor	0.0	
13	1								
	2								
14	3		14'-16'		1.0'	14.0'	Reddish to brown, SILT, trace f Sand, saturated, no odor	0.0	
15	1					15.6'	BLUE SLAG		
	5					Blue slag, some black organic staining, sulfur odor, saturated			
16	8								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING B09-13/MW09-2

SHEET 2 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 255.74' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/8/09 END DATE 7/8/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
16.0'	10		16'-18'		0.5'	16.0'	As above, saturated, no odor	1.1	
17	18								
18	8								
18	3								
18.0'	2		18'-20'		0.2'	18.0'	As above, saturated, no odor	0.9	
19	3								
19	3								
20	4								
20.0'	2		20'-22'		1.3'	20.0'	As above, saturated, no odor	0.0	
21	3					21.0'	<u>NATIVE SOIL</u> Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
21	3								
22	4								
22.0'	4		22'-24'		2.0'	22.0'	As above, wet, slight sulfur odor	0.0	
23	4								
23	3					23.2'	Greyish to brown, SILT, trace f Sand and Clay, wet, no odor		
24	3								
24.0'	2		24'-26'		2.0'	24.0'	As above, saturated, no odor	0.0	
25	2								
25	2								
26	3						<u>STANDARD SAMPLING BEGINS 26.0' - 31.0'</u>		
26	NA							NA	
27	NA								
27	NA								
28	NA								
28	NA								
29	NA		29'-31'		1.7'	29.0'	Grey, SILT and CLAY, saturated, no odor	0.0	
29	1								
30	3								
30	4								
31	4							NA	
31									

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: Monitoring well MW09-2 installed to 22.0' bgs, with 15.0' of screen from 7.0'-22.0' bgs

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.

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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-14**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.16' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/22/09 END DATE 6/22/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
	Ground Elevation: 257.16' Bottom Elevation: 225.00' Total Depth: 32.16'							
0.0'	NA					Asphalt - Not Sampled (Augered to 1.0' bgs)	0.0	
1.0'	8		1'-2'		1.2'	RE-WORKED NATIVE SOIL Brown, SILT, and c GRAVEL, little f Sand, moist, no odor		
2.0'	7					As above, some crushed sandstone, moist, no odor	0.0	
3.0'	26		2'-4'		1.0'			
4.0'	27					As above, moist, no odor	0.0	
5.0'	30							
5.1'	19		4'-6'		1.1'	Light brown, mf SAND, moist, no odor		
6.0'	7					Light brown, mc SAND, moist, no odor	0.0	
7.0'	5		6'-8'		1.6'	Light brown to dark brown, mc SAND, wet @ 7.0' bgs, no odor		
8.0'	4					As above, saturated, no odor	0.0	
9.0'	3		8'-10'		1.2'			
10.0'	3					As above, no odor	0.0	
12.0'	2		10'-12'		1.9'			
13.7'	3					As above, no odor	0.0	
14.0'	1		12'-14'		2.0'	Dark brown, c SAND, saturated, no odor		
15.6'	2					As above, saturated, no odor	0.0	
	5		14'-16'		0.9'	BLUE SLAG Blue slag, saturated, sulfur odor		

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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BORING **B09-14**
SHEET 2 OF 2
JOB # 209447
CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION	
DRILLER Neal Short	GROUND SURFACE ELEVATION 257.16'	DATUM
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/22/09	END DATE 6/22/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoons ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (INCHES)
						Ground Elevation: 257.16' Bottom Elevation: 225.00' Total Depth: 32.16'			
17	19		16'-18'	1.4'	16.0'	As above, saturated, sulfur odor	0.0	NATIVE SOIL	
	22								
	30								
18	2				17.8'	Dark brown to black, mc SAND, saturated, sulfur odor			
	2		18'-20'	0.9'	18.0'	As above, saturated, sulfur odor	0.0		
19	2								
	3								
	4				19.6'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor			
20	2		20'-22'	0.1'	20.0'	As above, saturated, sulfur odor	0.0		
	3								
21	3								
	4				22.0'	As above, saturated, no odor	0.0		
22	3		22'-24'	2.0'					
	4							23.2'	Grey, mf SAND and SILT, wet, no odor
23	4								
	NA		24'-26'	1.3'			0.0	STANDARD SAMPLING BEGINS 24.0' - 32.0'	
25	2							25.0'	Grey to brown, SILT, some mf Sand, trace Clay, wet, no odor
	2								
	3		26'-28'	NA			NA		
27	3								
	NA								
	NA		28'-30'	NA			NA		
28	NA								
	NA								
	NA		30'-32'	1.7'			0.0		
29	NA								
	NA								
	1				30.0'	Grey, SILT, little Clay and f Sand, wet, no odor			
31	1								
	2								
	2								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 32.0' bgs 2.2' of blue slag (15.6'-17.8')
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port of Rochester, New York

BORING **B09-15**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.45' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/22/09 END DATE 6/22/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
	Ground Elevation: 257.45' Bottom Elevation: 225.00' Total Depth: 24.45'							
0.0'	NA					Asphalt - Not sampled (Augered to 1.0' bgs)	0.0	
1.0'	8		1'-2'		0.8'	FILL MATERIALS Brown, SILT, little mf Sand and fill materials (i.e., coals, cinders, brick), moist n		
2.0'	8					As above, little blue slag fragments, moist, no odor	0.0	
3.0'	17		2'-4'		1.3'			
4.0'	20							
4.0'	16							
4.0'	19		4'-6'		1.0'	Brown, SILT, little mf Sand and blue slag, moist, sulfur odor	0.0	
5.0'	32							
6.0'	25							
6.0'	9							
6.0'	8		6'-8'		0.8'	Dark brown, c SAND, little blue slag, moist, sulfur odor	0.0	
7.0'	5							
8.0'	8							
8.0'	13		8'-10'		0.0'	No Recovery	0.0	
9.0'	4							
10.0'	6							
10.0'	14					Large blue slag chunks, wet @ 10.0' bgs, no odor	0.0	
11.0'	5		10'-12'		0.1'			
12.0'	11							
12.0'	11							
12.0'	25					Brown, c SAND, little blue slag, saturated, sulfur odor	0.0	
13.0'	33		12'-14'		1.5'	BLUE SLAG		
14.0'	43					Blue slag, saturated, sulfur odor		
14.0'	25							
14.0'	5					As above, saturated, sulfur odor	0.0	
15.0'	40		14'-16'		1.5'			
16.0'	24							
16.0'	49							

LEGEND

S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port of Rochester, New York

BORING B09-15

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 257.16'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/22/09

END DATE 6/22/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
						Ground Elevation: 257.45'	Bottom Elevation: 225.00'	Total Depth: 24.45'		
17	16		16'-18'		1.0'	16.0'	As above, blue slag, saturated, sulfur odor	0.0		
	15									
	14									
18	13									
	7					18.0'	As above, saturated, sulfur odor	0.0		
	5		18'-20'		1.4'					
	3						NATIVE SOIL			
20	5					19.7'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor			
	5					20.0'	No Recovery	0.0		
	4		20'-22'		0.0'					
	3									
	4									
22	4					22.0'	As above, wet, sulfur odor	0.0		
	4		22'-24'		2.0'					
	4					23.7'	Grey, SILT and mf SAND, wet, no odor			
24	4									
	NA							0.0		
	NA		24'-26'		1.4'		STANDARD SAMPLING BEGINS 24.0' - 32.0'			
25	2					25.0'	Brown to grey, SILT, some mf Sand and peat moss, wet, no odor			
	2									
26	2							NA		
	3		26'-28'		NA					
	NA									
28	NA							NA		
	NA		28'-30'		NA					
	NA									
30	2					30.0'	Grey, SILT, little mf Sand, wet, no odor	0.0		
	3		30'-32'		2.0'					
	6									
	6									

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

- Bottom of boring @ 32.0' bgs
- 7.3' of blue slag (12.4'-19.7')
- 11.4' of fill materials (1.0'-12.4')

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-16a**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 257.23'	DATUM NAVD88	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/22/09	END DATE	6/22/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA			
	DATE	TIME	WATER	CASING

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
						Ground Elevation: 257.23' Bottom Elevation: 225.00' Total Depth: 32.23'				
1	NA		1'-2'		NA	0.0'	Asphalt - Not sampled (Augered to 2.0' bgs)	NA		
2	NA						2.0'	FILL MATERIALS Blue slag, mc Sand, sulfur odor, moist	0.0	
3	12			2'-4'		2.0'	2.2'	As above, sulfur odor, moist		
4	18						2.8'	Light brown, mf SAND, little fill materials (i.e., brick and coals), no odor		
5	13		4.0'		BLUE SLAG Crushed blue slag fragments, some brown c Sand, saturated @ 4.0' bgs, sulfur		0.0			
6	7		4'-6'	0.6'	6.0'	Blue slag fragments, little c Sand, saturated, sulfur odor	0.0			
7	4				6.0'	As above, saturated, sulfur odor	0.0			
8	5		6'-8'	0.6'	8.0'	As above, saturated, sulfur odor	0.0			
9	7				10.0'	As above, saturated, sulfur odor	0.0			
10	5				12.0'	As above, saturated, sulfur odor	0.0			
11	3		8'-10'	1.2'	14.0'	As above, saturated, sulfur odor	0.0			
12	4				10'-12'	0.2'	As above, saturated, sulfur odor	0.0		
13	7		12'-14'	1.2'	12.0'	As above, saturated, sulfur odor	0.0			
14	15				14.0'	As above, saturated, sulfur odor	0.0			
15	14				14'-16'	2.0'	As above, saturated, sulfur odor	0.0		
16	9									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Conditions Gap Investigation

Port of Rochester, New York

BORING B09-16a

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.23' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/22/09 END DATE 6/22/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
						Ground Elevation: 257.23' Bottom Elevation: 225.00' Total Depth: 32.23'		
17	5		16'-18'		0.7'	16.0'	As above, saturated, sulfur odor	0.0
	6							
	11							
18	4		18'-20'		1.2'	18.0'	As above, saturated, sulfur odor	0.0
	4							
	3							
19	3		18'-20'		1.2'	18.9'	NATIVE SOIL	
	3							
	2							
20	2		20'-22'		1.2'	20.0'	As above, wet, no odor	0.0
	2							
	1							
21	2		20'-22'		1.2'	20.0'	As above, wet, no odor	0.0
	2							
	1							
22	1		22'-24'		1.4'	22.0'	Grey, SILT, little mf Sand, trace Clay, wet, no odor	0.0
	1							
	3							
23	2		24'-26'		1.6'	24.0'	As above, wet, no odor	0.0
	NA							
	2							
24	2		24'-26'		1.6'	25.0'	As above, wet, no odor	0.0
	3							
	1							
25	1		26'-28'		NA	26.0'	As above, wet, no odor	NA
	2							
	NA							
26	NA		28'-30'		NA	28.0'	As above, wet, no odor	NA
	NA							
	NA							
27	2		30'-32'		2.0'	30.0'	Brown to grey, SILT, little mf Sand, wet, no odor	0.0
	2							
	3							
28	3		30'-32'		2.0'	30.0'	Brown to grey, SILT, little mf Sand, wet, no odor	0.0
	2							
	3							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: Bottom of boring @ 32.0' bgs
 14.9' of blue slag (4.0'-18.9')
 2.0' of fill materials (2.0'-4.0')

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LABELLA

Associates, P.C.

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Port of Rochester, New York

BORING **B09-17**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION
DRILLER Neal Short	GROUND SURFACE ELEVATION 257.57' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/23/09 END DATE 6/23/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoons ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					Ground Elevation: 257.57' Bottom Elevation: 225.00' Total Depth: 32.57'
0.0'	NA					0.0'	Asphalt - Not sampled (Augered to ~1.0'bgs)	0.0	
1.0'	NA		1'-2'		0.6'	1.0'	RE-WORKED NATIVE SOIL Light brown, mc SAND and c GRAVEL, wet, no odor		
2.0'	15					2.0'	As above, saturated, no odor	0.0	
3.4'	11		2'-4'		1.0'	3.4'	Dark brown, SILT, some mf Sand, moist, no odor		
4.0'	5					4.0'	As above, moist, no odor	0.0	
5.2'	4					5.2'	Crushed brick		
5.8'	10		4'-6'		1.5'	5.8'	Brown, mc SAND, moist, no odor		
6.0'	9					6.0'	As above, moist, no odor	0.0	
7.8'	15		6'-8'		0.6'	7.8'	BLUE SLAG Blue slag, moist, sulfur odor		
8.0'	50/2					8.0'	Bits of blue slag, saturated, sulfur odor	0.0	
10.0'	2		8'-10'		0.2'	10.0'	FILL MATERIALS Light brown, SILT, little f Sand, trace Clay, saturated, no odor	0.0	
11.5'	2					11.5'	Brown to dark brown, mc SAND, some brick and cinders, saturated, no odor		
12.0'	5		10'-12'		0.9'	12.0'	As above, saturated, no odor	0.0	
13.2'	3					13.2'	BLACK SLAG Black slag, some crushed brick, sulfur odor		
14.0'	1		12'-14'		0.7'	14.0'	As above, saturated, sulfur odor	0.0	
1.0'	2								
1.0'	4		14'-16'		1.0'				
1.0'	5								
1.0'	6								
1.0'	4								

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-17

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 257.57' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/23/09 END DATE 6/23/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					Ground Elevation: 257.57'	Bottom Elevation: 225.00'	Total Depth: 32.57'
17	1		16'-18'		1.3'	16.0'	As above, saturated, sulfur odor	0.0	
	2					17.3'	<u>NATIVE SOIL</u> Grey to black, SILT, little Clay, saturated, no odor		
18	1		18'-20'		1.2'	18.0'	As above, saturated, no odor	0.0	
	2					18.9'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	3					19.6'	Grey, SILT, little mf Sand, trace Clay, moist, no odor		
	4					20.0'	As above, moist, no odor		
19	1		20'-22'		1.3'	20.0'	As above, moist, no odor	0.0	
	2					21.5'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	2					22.0'	<u>STANDARD SAMPLING BEGINS 24.0' - 32.0'</u>		
20	NA		22'-24'		NA	22.0'		NA	
	NA								
	NA								
21	NA		24'-26'		1.5'	25.0'	Grey, SILT, little f Sand, wet, no odor	0.0	
	1								
22	2		26'-28'		NA			NA	
	2								
	NA								
23	NA		28'-30'		NA			NA	
	NA								
	NA								
24	2		30'-32'		1.9'	30.0'	As above, wet, no odor	0.0	
	2								
	2								
	2								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 32.0' bgs
 2.2' of blue slag (7.8'-10.0')
 4.1' of black slag (13.2' - 17.3')
 Native soil encountered @ 17.3' bgs
 3.2' of fill materials (10'-13.2')

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-18**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 254.51'	DATUM NAVD88	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/23/09	END DATE	6/23/09

TYPE OF DRILL RIG: _____ AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD _____	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 254.51' Bottom Elevation: 225.00' Total Depth: 29.51'			
1	NA				0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0		
	NA				1.0'	Brown, mc SAND and c GRAVEL, moist, no odor			
	12		1'-2'	0.7'		FILL MATERIALS			
2	12				1.8'	Brown to black, brick, cinders, and coals, moist, no odor			
	8				2.0'	As above, wet, no odor	0.0		
3	11		2'-4'	1.3'		BLUE SLAG			
	15				3.2'	Blue slag, some mc Sand, saturated, sulfur odor			
4	12								
	4				4.0'	As above, saturated, no odor	0.0		
5	4		4'-6'	1.6'		FOUNDRY SAND			
	5				4.3'	Dark brown to red, mc SAND, wet, no odor			
6	15				5.8'	Crushed rock			
	70				6.0'	Dark brown to red, mc SAND (foundry sand), wet, no odor	0.0		
7	43		6'-8'	1.6'	7.0'	Black cinders			
	29					BLUE SLAG			
8	20				7.7'	Blue slag, saturated, sulfur odor			
	6				8.0'	As above, saturated, sulfur odor	0.0		
9	4		8'-10'	0.4'					
	8								
10	6								
	6				10.0'	As above, saturated, sulfur odor	0.0		
11	7		10'-12'	0.8'					
	12								
12	3								
	2				12.0'	As above, saturated, sulfur odor	0.0		
13	3		12'-14'	1.0'					
	4				13.7'	Grey to brown, mc SAND, some wood fragments, wet, slight sulfur odor			
14	4					NATIVE SOIL			
	3				14.0'	Grey, mc SAND, saturated, no odor	0.0		
15	3		14'-16'	1.4'					
	5								
16	4								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-18

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.51' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/23/09 END DATE 6/23/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
						Ground Elevation: 254.51' Bottom Elevation: 225.00' Total Depth: 29.51'			
17	2		16'-18'	2.0'	16.0'	As above, saturated, no odor	0.0		
	2				17.8'				
	3				17.8'				
18	4				18.0'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor STANDARD SAMPLING BEGINS 18.0' - 30.0'	0.0		
19	1	18'-20'	1.6'	18.0'					
	1			19.7'					
	2			19.7'					
20	3				20.0'	Grey, SILT, trace f Sand and Clay, moist, no odor	0.0		
21	NA	20'-22'	NA	20.0'					
	NA			22.0'					
	NA			22.0'					
22	NA				22.0'	Grey, SILT, little Clay and f SAND, some iron staining, saturated, no odor	NA		
23	1	22'-24'	1.6'	23.0'					
24	1			23.0'					
	2			23.0'					
25	2	24'-26'	NA				0.0		
	NA								
	NA								
26	NA						NA		
27	NA	26'-28'	NA						
	NA								
	NA								
28	WR				28.0'	As above, saturated, no odor	0.0		
29	WR	28'-30'	0.9'						
	WH								
30	3								
31		30'-32'							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 30.0' bgs
 5.2' of fill materials including blue slag (1.8'-7.1')
 6.0' of blue slag (7.7' - 13.7')
 Native soil encountered @ 13.7' bgs
 WH = Weight of Hammer
 WR = Weight of Rods

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site
Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-19/MW09-1**
SHEET 1 of 3
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 253.20' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/30/09 END DATE 6/30/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
0.0'	NA					Asphalt - not sampled (augered to ~1.0'bgs)	0.0	Ground Elevation: 253.20' Bottom Elevation: 215.00' Total Depth: 38.20' FILL MATERIALS Reddish to brown, mc SAND and Cinders, Coals, Brick, and Blue Slag, moist, slight sulfur odor BLUE SLAG Blue slag, wet, sulfur odor NATIVE SOIL Brown, peat moss, some organic matter/roots, saturated, sulfur odor Small pieces of blue slag, saturated, sulfur odor Dark brown, SILT, some organic matter, little f Sand, trace Clay, saturated, no c
1.0'	NA		1'-2'		0.8'			
1.0'	7							
2.0'	8							
2.0'	6						0.0	
2.0'	5		2'-4'		0.7'			
2.0'	7							
2.0'	4							
4.0'	15		4'-6'		0.5'		6.5	
4.0'	6							
4.0'	4							
6.0'	3							
6.0'	2		6'-8'		0.2'		3.2	
6.0'	1							
6.0'	3							
8.0'	2							
8.0'	7		8'-10'		1.0'		3.7	
8.0'	9							
8.0'	7							
10.0'	5							
10.0'	2		10'-12'		0.7'		9.6	
10.0'	5							
11.8'	5							
12.0'	2							
12.0'	2		12'-14'		<0.1'		NA	
12.0'	2							
14.0'	3							
14.0'	2							
14.0'	1		14'-16'		0.2'		0.0	
14.0'	2							
16.0'	2							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 253.20' DATUM
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/30/09 END DATE 6/30/09

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: 253.20' Bottom Elevation: 215.00' Total Depth: 38.20'		
17	NA						STANDARD SAMPLING BEGINS 16.0' - 37.0'	NA	
	NA								
	NA								
18	NA								
	NA								
19	1		19'-21'	1.3'	19.0'	Dark brown, SILT, some f Sand and roudned Gravel, saturated, no odor		0.0	
	1								
20	2								
	2								
21	NA							NA	
	NA								
22	NA								
	NA								
23	NA						NA		
	NA								
24	NA								
	8								
25	18		24'-26'	0.8'	25.0'	GLACIAL TILL Light brown, SILT, little mf Sand and Gravel, wet, no odor	0.0		
	50/0.2								
26	NA								
	NA								
27	NA								
	NA								
28	NA								
	NA								
29	18		29'-31'	1.5'	29.0'	As above, wet, no odor	NA		
	42						0.0		
30	32				30.5'	Red weathered bedrock (sandstone), wet, no odor			
	30								
31	NA								
	NA								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 253.20' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE: 6/30/09 END DATE 6/30/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: Bottom Elevation: Total Depth: 253.20' 215.00' 38.20'		
33	NA							NA	
34	NA								
35	16		34'-36'		1.2'	34.0'	As above, wet, no odor	0.0	
36	49								
37	50/0.3								
38							Bedrock Refusal @ ~37.0' bgs		
39									
40									
41									
42									
43									
44									
45									
46									
47									

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ ~37.0' bgs
 3.0' of fill materials including blue slag (1.0'-4.0')
 7.8' of blue slag (4.0' - 11.8')
 Native soil encountered @ 11.8' bgs

Groundwater @ ~ 4.0' BGS
 Monitoring well MW09-1 installed to 37.0' bgs, with 30.0' of screen from 2.0'-32.0' bgs

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 254.06' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/26/09 END DATE 6/26/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	NA				0.0'	Asphalt - not sampled (augered to 1.0' bgs)	0.0	
1.0'	8		1'-2'		0.8'	FILL MATERIALS Cinders, coals, and brick, moist, no odor		
1.8'	11					As above, some blue slag, moist, sulfur odor		
2.0'	34					Brown to black, mc SAND and FILL MATERIALS, moist, no odor	0.0	
1.8'	15		2'-4'		1.8'			
1.8'	15							
1.8'	18							
4.0'	5				4.0'	As above, with FOUNDRY SAND and BLUE SLAG, wet @ ~ 5.0' bgs, slight sulfur odor	0.0	
1.2'	3		4'-6'		1.2'			
1.2'	4							
1.2'	7							
6.0'	27				6.0'	As above, saturated, sulfur odor	0.0	
1.0'	15		6'-8'		1.0'			
1.0'	4							
8.0'	10					BLUE SLAG Blue Slag, saturated, sulfur odor	0.0	
0.7'	8		8'-10'		0.7'			
0.7'	10							
10.0'	12					As above, saturated, sulfur odor	0.0	
0.8'	3		10'-12'		0.8'			
0.8'	13							
0.8'	12							
12.0'	5					As above, saturated, sulfur odor	0.0	
1.0'	6		12'-14'		1.0'			
1.0'	4							
1.0'	14							
1.0'	16							
14.0'	2				14.0'	As above, saturated, sulfur odor	0.0	
0.7'	2		14'-16'		0.7'	NATIVE SOIL Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
0.7'	1							
0.7'	2							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-20

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 254.06'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/26/09

END DATE 6/26/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
16.0'	2					As above, saturated, slight sulfur odor	0.0	
17.0'	2		16'-18'		1.4'			
17.5'	2					Grey, mf SAND, some Silt, saturated, no odor		
18.0'	1					As above, saturated, no odor	0.0	
19.0'	2		18'-20'		1.2'			
20.0'	2							
20.0'	3							
21.0'	NA							
21.0'	NA		20'-22'		NA		NA	
21.0'	NA							
21.0'	NA							
22.0'	NA							
23.0'	NA		22'-24'		0.5'	Greyish to brown, SILT, little f Sand and Clay, wood fragments, saturated, no odor	0.0	
24.0'	1							
24.0'	1							
25.0'	2							
25.0'	NA		24'-26'		NA		NA	
26.0'	NA							
26.0'	NA							
27.0'	NA		26'-28'		NA		NA	
28.0'	NA							
28.0'	1					As above, saturated, no odor	0.0	
29.0'	1		28'-30'		1.6'			
30.0'	2							
30.0'	3							
31.0'								
31.0'			30'-32'					
31.0'								

STANDARD SAMPLING BEGINS 20.0' - 30.0'

Bottom @ 30.0' bgs

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

- Bottom of boring @ 30.0' bgs
- Groundwater @ ~ 5.0' bgs
- 7.0' of fill materials including blue slag (1.0'-8.0')
- 7.5' of blue slag (8.0' - 15.5')
- Native soil encountered @ 15.5' bgs

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.

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ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-21

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.

DRILLER Neal Short

LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION

GROUND SURFACE ELEVATION 253.98'

START DATE 6/26/09 END DATE 6/26/09

DATUM NAVD88

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
0.0'	NA					0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
1.0'	NA		1'-2'		1.0'	1.0'	Brown, mc SAND and GRAVEL, moist, no odor		
1.5'	18					1.5'	FILL MATERIALS		
2.0'	22					2.0'	As above, with some cinders and bricks, moist, no odor		
2.0'	8					2.0'	As above, moist, no odor	0.0	
2.0'	15		2'-4'		0.7'	2.0'			
3.0'	14					3.0'	BLUE SLAG		
3.7'	15					3.7'	Blue slag, moist, sulfur odor		
4.0'	4					4.0'	As above, moist, sulfur odor	0.0	
4.0'	3		4'-6'		<0.1'	4.0'			
5.0'	2					5.0'	As above, wet @ ~ 5.0' bgs		
5.0'	2					5.0'			
6.0'	10					6.0'	As above, saturated, sulfur odor	0.0	
6.0'	5		6'-8'		1.0'	6.0'			
6.0'	3					6.0'			
6.0'	3					6.0'	As above, saturated, sulfur odor	0.0	
8.0'	11		8'-10'		1.2'	8.0'			
8.0'	29					8.0'			
8.0'	34					8.0'			
10.0'	18					10.0'	As above, saturated, sulfur odor	0.0	
10.0'	31		10'-12'		1.3'	10.0'			
10.0'	20					10.0'			
10.0'	19					10.0'			
12.0'	10					12.0'	As above, saturated, sulfur odor	0.0	
12.0'	5		12'-14'		1.2'	12.0'			
12.0'	5					12.0'			
12.0'	7					12.0'			
14.0'	7					14.0'	As above, saturated, sulfur odor	0.0	
14.0'	5		14'-16'		0.2'	14.0'			
14.0'	2					14.0'			
14.0'	2					14.0'			

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 253.98' DATUM
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/26/09 END DATE 6/26/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
0.0'						As above, saturated, sulfur odor	0.0	
17.1'	1		16'-18'		1.2'	<u>NATIVE SOIL</u> Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
18.0'	2					As above, saturated, slight sulfur odor	0.0	
19.0'	2		18'-20'		0.1'			
20.0'	3					As above, saturated, slight sulfur odor		
20.6'	1		20'-22'		1.6'	Greyish to brown, SILT, little f Sand, saturated, no odor	0.0	
22.0'	1					<u>STANDARD SAMPLING BEGINS 22.0' - 30.0'</u>		
23.0'	1		23'-25'		2.0'	As above, saturated, no odor	0.0	
24.0'	2							
25.0'	1						NA	
26.0'	2							
27.0'	NA							
28.0'	NA							
28.0'	1					As above, saturated, no odor		
29.4'	1		28'-30'		2.0'	Greyish to brown, SILT, trace f Sand and Clay, no odor	0.0	
30.0'	1							
31.0'	2							
						Bottom @ 30.0' bgs		

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES: Bottom of boring @ 30.0' bgs 1.7' of fill materials (1.5'-3.2') 13.4' of blue slag (3.7' - 17.1') Native soil encountered @ 17.1' bgs</p>	<p>Groundwater @ 5.0' bgs</p>
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.12' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/26/09 END DATE 6/26/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
					Ground Elevation: 254.12'	Bottom Elevation: 225.00'	Total Depth: 29.12'	
1	NA				0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
	NA							
	17		1'-2'		1.0'	Brown, mc SAND and GRAVEL, moist, no odor		
	18							
2	12				2.0'	As above, moist, no odor	0.0	
	13		2'-4'			FILL MATERIALS		
	16			0.8'	3.0'	Cinders, Blue Slag, and Foundry Sand, moist, slight sulfur odor		
	29							
4	2				4.0'	Bown, SILT, some mc Sand and fill materials, moist, no odor	0.0	
	3		4'-6'					
	5			1.3'	5.5'	Ash layer, wet @ ~ 5.5' bgs		
	12				5.8'	Dark brown to red, SILT and m SAND, some blue slag, wet, sulfur odor		
	11					BLUE SLAG	0.0	
	11		6'-8'		6.0'	Blue slag, saturated, sulfur odor		
	9			0.9'				
	7							
8	3				8.0'	As above, saturated, sulfur odor	0.0	
	7		8'-10'					
	12			1.0'				
10	16				10.0'	As above, saturated, sulfur odor	0.0	
	6		10'-12'					
	7			0.3'				
	8							
12	7				12.0'	As above, saturated, sulfur odor	0.0	
	7		12'-14'					
	10			1.2'				
13	10							
	12							
14	3				14.0'	As above, saturated, sulfur odor	0.0	
	2		14'-16'					
	2			0.4'				
16	4							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-22

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 254.12'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/26/09

END DATE 6/26/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
16.0'	4					As above, saturated, sulfur odor	0.0	Ground Elevation: 254.12' Bottom Elevation: 225.00' Total Depth: 29.12'
17.0'	2	16'-18'		1.6'	<u>NATIVE SOIL</u>			
17.5'	2					Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
18.0'	2					Greyish to brown, SILT, little f Sand, trace Clay, saturated, no odor		
18.0'	2	18'-20'		1.4'		As above, wet, no odor	0.0	
19.0'	2							
20.0'	2					Dark brown, SILT, some mf Sand, trace Clay, saturated, no odor	0.0	
20.0'	2	20'-22'		2.0'				
22.0'	3					<u>STANDARD SAMPLING BEGINS 22.0' - 30.0'</u>		
23.0'	NA	23'-25'						
23.0'	1					Greyish to brown, SILT, little f Sand, trace Clay, saturated, no odor	0.0	
24.0'	1						NA	
25.0'	1							
26.0'	NA						NA	
27.0'	NA							
28.0'	2					As above, saturated, no odor	0.0	
28.0'	2	28'-30'		1.0'				
29.0'	2							
30.0'	3							
30.0'						Bottom @ 30.0' bgs		
31.0'								

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE</p> <p>U - UNDISTURBED SOIL SAMPLE</p> <p>C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bottom of boring @ 30.0' bgs</p> <p>Groundwater @ ~5.5' bgs</p> <p>3.0' of fill materials including blue slag (3.0'-6.0')</p> <p>11.0' of blue slag (6.0' - 17.0')</p> <p>Native soil encountered @ 17.0' bgs</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 255.00' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/25/09 END DATE 6/26/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	NA					Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
1.0'	NA		1'-2'		0.9'	Brown, mc SAND and GRAVEL, dry, no odor		
1.8'	15					FILL MATERIALS		
2.0'	16					Cinders, coals, and brick, dry, no odor		
2.8'	8		2'-4'		1.3'	As above, moist, no odor	0.0	
4.0'	6					As above, some blue slag, moist, slight sulfur odor		
4.0'	5					As above, moist, no odor	0.0	
6.0'	8		4'-6'		1.0'	As above, moist, no odor		
6.0'	4					FOUNDRY SAND		
6.0'	2					Dark brown to red, c SAND, wet, slight sulfur odor	0.0	
7.7'	6		6'-8'		0.8'	As above, moist, no odor		
7.7'	7					BLUE SLAG		
8.0'	14					Blue slag, saturated, sulfur odor		
8.0'	8		8'-10'		0.6'	As above, saturated, sulfur odor	0.0	
10.0'	7					As above, saturated, sulfur odor		
10.0'	5					As above, saturated, sulfur odor	0.0	
10.0'	3		10'-12'		0.8'	As above, saturated, sulfur odor		
12.0'	6					As above, saturated, sulfur odor	0.0	
12.0'	19					As above, saturated, sulfur odor		
12.0'	23		12'-14'		1.2'	As above, saturated, sulfur odor	0.0	
14.0'	15					As above, saturated, sulfur odor		
14.0'	17					As above, saturated, sulfur odor	0.0	
14.0'	18					As above, saturated, sulfur odor		
14.0'	7					As above, saturated, sulfur odor		
14.0'	2					As above, saturated, sulfur odor	0.0	
14.0'	WH					As above, saturated, sulfur odor		
15.5'	1		14'-16'		1.2'	NATIVE SOIL		
15.5'	1					Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
16	1							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.

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Conditions Gap Investigation

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BORING B09-23

SHEET 2 OF 2

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 255.00'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/25/09

END DATE 6/26/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					
						Ground Elevation: 255.00'	Bottom Elevation: 225.00'	Total Depth: 30.0'		
17	1		16'-18'		1.5'	16.0'	As above, saturated, no odor	0.0		
	1					17.4'	Grey, SILT, little f Sand and Clay, saturated, no odor			
	1									
18	2		18'-20'		1.0'	18.0'	As above, saturated, no odor	0.0		
	1									
	1									
	1									
20	NA		23'-25'		1.5'	STANDARD SAMPLING BEGINS 20.0' - 30.0'			NA	
21	NA									
22	NA									
23	NA									
23	1		23'-25'		1.5'	23.0'	Brown to grey, SILT, little f Sand and Clay, saturated, no odor	0.0		
24	1									
25	2									
26	NA		28'-30'		2.0'			NA		
27	NA									
28	NA									
29	NA									
28	1		28'-30'		2.0'	28.0'	As above, saturated, no odor	0.0		
29	1									
30	2									
31						Bottom @ 30.0' bgs				

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE</p> <p>U - UNDISTURBED SOIL SAMPLE</p> <p>C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bottom of boring @ 30.0' bgs</p> <p>Groundwater @ ~ 6.0' bgs</p> <p>5.9' of fill materials including blue slag (1.8'-7.7')</p> <p>7.8' of blue slag (7.7' - 15.5')</p> <p>Native soil encountered @ 15.5' bgs</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-24**

SHEET 1 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 253.07'	DATUM <u>NAVD88</u>	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 7/8/09	END DATE 7/8/09	

TYPE OF DRILL RIG: _____ AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD _____	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 253.07'	Bottom Elevation: 225.00'	Total Depth: 28.07'	
0.0'	NA					0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
1.0'	NA		1'-2'		1.3'	1.0'	FILL MATERIALS Brown, mc SAND and SILT, some crushed brick and cinders, moist, no odor		
2.0'	40					2.0'	As above, moist, no odor	0.0	
2.0'	44								
2.0'	50/0.4		2'-4'		0.5'				
4.0'						4.0'	FOUNDRY SAND Reddish to brown, mc SAND, some cinders and coals, moist, no odor	0.0	
4.0'	37								
4.0'	5		4'-6'		1.5'				
4.0'	6								
4.0'	5								
6.0'	3					6.0'	As above, trace cinders and coals, wet @-6.0' bgs, no odor	0.0	
6.0'	3		6'-8'		2.0'				
6.0'	4								
6.0'	3								
8.0'	1					8.0'	As above, saturated, no odor	0.0	
8.0'	1		8'-10'		2.0'				
8.0'	2								
10.0'	1					10.0'	As above, saturated, no odor	0.0	
10.0'	1		10'-12'		2.0'				
10.0'	2								
10.0'	2								
10.0'	2								
12.0'	2					12.0'	As above, saturated, no odor	0.0	
12.0'	2		12'-14'		2.0'				
12.0'	2								
13.6'	2					13.6'	Dark brown, SILT, some mc Sand, saturated, slight petroleum odor, sheen pres		
14.0'	4					14.0'	As above, saturated, no odor	1.2	
14.0'	4		14'-16'		1.0'		BLUE SLAG		
14.2'	23					14.2'	Blue slag, little mc Sand, saturated, sulfur odor		
16.0'	40								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-24

SHEET 2 of 2

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 253.07'	DATUM NAVD88	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 7/8/09	END DATE	7/8/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoons ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
						Ground Elevation: 253.07' Bottom Elevation: 225.00' Total Depth: 28.07'			
17	27		16'-18'		0.8'	16.0'	As above, saturated, sulfur odor	0.2	
	12								
	9								
18	10								
	2					18.0'	As above, saturated, sulfur odor	0.3	
19	2		18'-20'		<0.1'				
	3								
20	3					20.0'	NATIVE SOIL Brown, peat moss, some organic matter/roots, saturated, sulfur odor	0.0	
21	2		20'-22'		1.7'	21.9'	Grey, SILT, little mf Sand, slight sulfur odor, wet		
	3								
22	4					22.0'	As above, saturated, no odor	0.0	
23	4		22'-24'		0.9'				
	4								
24	4					24.0'	Dark brown, SILT, little Clay and f Sand, saturated, no odor	0.0	
25	4		24'-26'		<0.1'				
	4								
26	4					26.0'	As above, some pieces of wood, saturated, no odor	0.0	
27	5		26'-28'		1.6'				
	4								
	6								
28	5						Bottom @ 28.0' bgs		
29									
30									
31									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 28.0' bgs 13.2' of fill materials (1.0'-14.2') 5.8' of blue slag (14.2' - 20.0') Native soil encountered @ 20.0' bgs	Groundwater @ ~ 6.0' bgs
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
0.0'	NA					Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
1.0'	40		1'-2'		1.0'	Brown, mc SAND, little Silt and Gravel, moist, no odor		
2.0'	45				2.0'	As above, moist, no odor	0.0	
3.6'	50/4		2'-4'		0.6'	FILL MATERIALS		
4.0'	4				3.6'	Brown, mc SAND, coals, cinders, crushed brick, moist, no odor		
4.0'	7		4'-6'		4.0'	Reddish to brown, mc SAND, moist, no odor (FOUNDRY SAND)	0.0	
6.0'	2				4.0'			
6.0'	7				6.0'	As above, saturated, @ ~6.0' bgs, no odor	0.0	
8.0'	4		6'-8'		1.2'			
8.0'	5				6.0'	As above, saturated, no odor	0.0	
8.0'	2				8.0'	As above, saturated, no odor	0.0	
10.0'	1		8'-10'		1.5'			
10.0'	1				10.0'	As above, saturated, no odor	0.0	
10.0'	2		10'-12'		1.7'			
10.0'	2				10.0'	As above, saturated, no odor	0.0	
12.0'	1				12.0'	As above, saturated, no odor	0.0	
13.6'	5		12'-14'		2.0'	BLUE SLAG		
13.6'	18				13.6'	Blue Slag, saturated, sulfur odor		
14.0'	14				14.0'	As above, saturated, sulfur odor	1.2	
14.0'	6		14'-16'		1.5'			
14.0'	9				14.0'	As above, saturated, sulfur odor		
14.0'	9				14.0'			
14.0'	6				14.0'			

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 252.82'	Bottom Elevation: 202.00'	Total Depth: 50.82'	
17	6		16'-18'		0.4'	16.0'	As above, saturated, no odor	0.0	
18	10								
18	8								
19	7					18.0'	As above, saturated, no odor	0.0	
19	4		18'-20'		1.4'	18.6'	<u>NATIVE SOIL</u>		
20	3						Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
20	4					20.0'	No Recovery	NA	
21	4		20'-22'		0.0'				
21	5								
22	5								
23	4		22'-24'		2.0'	22.0'	Brown, peat moss, some organic matter/roots, saturated, no odor	0.0	
23	5								
24	5								
25	1		24'-26'		1.6'	24.0'	Greyish to brown, SILT, little mf Sand and Clay, trace organic matter, saturated no odor	0.0	
25	2								
26	2								
26	3								
27	NA						<u>STANDARD SAMPLING BEGINS 26.0' - Bottom</u>	NA	
27	NA								
27	NA								
28	NA								
28	NA								
29	NA		29'-31'		2.0'	29.0'	Greyish to brown, SILT, little mf Sand and Clay, saturated, no odor	0.0	
29	1								
30	2								
30	3								
31	3								
31	NA							NA	
31	NA								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-25**
SHEET 3 of 7
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.82' Bottom Elevation: 202.00' Total Depth: 50.82'		
33	NA							NA	
34	NA								
34	1					34.0'	As above, saturated, no odor		
35	2		34'-36'		2.0'			0.0	
35	3								
36	3								
37	NA							NA	
37	NA								
37	NA								
38	NA								
38	NA							0.0	
39	2		39'-41'		1.3'	39.0'	Grey, SILT and CLAY, little f Sand, saturated, no odor		
39	2								
40	2								
41	3							NA	
41	NA								
42	NA								
42	NA							NA	
43	NA								
43	NA								
44	NA								
44	WR					44.0'	As above, saturated, no odor		
45	WR		44'-46'		1.0'			0.0	
45	1								
46	1								
46	NA							NA	
47	NA								
47	NA								
47	NA								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: WR = Weight of Rods

GENERAL NOTES:
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.82' Bottom Elevation: 202.00' Total Depth: 50.82'		
48	NA							NA	
49	NA								
49	WR					49.0'	Grey, SILT, some mf Sand, little Clay, saturated, no odor	0.0	
50	WH		49'-51'		2.0'				
50	2								
51	3								
52	NA							NA	
52	NA								
53	NA								
53	NA							0.0	
54	NA		54'-56'		2.0'				
54	WR					54.0'	As above, saturated, no odor		
55	WH								
55	WH								
56	3							NA	
56	NA								
57	NA								
58	NA							NA	
58	NA								
59	NA								
59	1					59.0'	As above, saturated, no odor	0.0	
60	1		59'-61'		2.0'				
60	3								
61	3								
61	NA							NA	
62	NA								
62	NA								
62	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 WR = Weight of Rods
 WH = Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
	NA						Ground Elevation: 252.82' Bottom Elevation: 202.00' Total Depth: 50.82'		
63	NA							NA	
64	NA								
65	1		64'-66'		1.6'	64.0'	Grey, SILT, some mf Sand, trace Clay, saturated, no odor	0.0	
66	1								
67	2								
68	1								
69	NA							NA	
70	NA								
71	NA								
72	NA								
73	NA								
74	NA								
75	2		69'-71'		1.0'	69.0'	As above, saturated, no o odor	0.0	
76	5					70.3'	As above, some pieces of wood, saturated, no odor		
77	6								
78	7								
79	NA							NA	
80	NA								
81	NA								
82	NA								
83	2								
84	3								
85	5		74'-76'		2.0'	74.0'	Greyish to brown, SILT and mf SAND, saturated, no odor	0.0	
86	6								
87	NA								
88	NA								
89	NA								
90	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG:				WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS				

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

D E P T H	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	N O T E S
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
	Ground Elevation: 252.82' Bottom Elevation: 202.00' Total Depth: 50.82'							
78	NA					As above, saturated, no odor	NA	
	NA							
79	NA							
	1				79.0'			
80	4		79'-81'		2.0'	Grey, SILT, little mf Sand, trace Clay, saturated, no odor	0.0	
	4							
81	5							
82	NA							NA
	NA							
83	NA							
	NA							0.0
84	NA		84'-86'		1.4'			
	2				84.0'			
85	2							
	8							NA
86	8							
	NA							
87	NA						NA	
	NA							
88	NA							
	NA							
89	3				89.0'	Grey, SILT, little f Sand and Clay, wet, no odor	0.0	
90	6		89'-91'		2.0'			
	6							
91	6							
	NA						NA	
92	NA							
	NA							
	NA							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.82' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/9/09 END DATE 7/9/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 252.82'	Bottom Elevation: 202.00'	Total Depth: 50.82'	
93	NA								
	NA								
	NA								
94	NA								
	4					94.0'	Grey, SILT and f SAND, wet, no odor		
	6							0.0	
95	7		94'-96'		1.7'				
	8								
96	NA								
	NA								
97	NA								
	NA								
98	NA								
	NA								
99	17		99'-101'		0.3'	99.0'	<u>GLACIAL TILL</u>		
						99.8'	Reddish to brown, SILT and mf SAND, some Gravel, saturated, no odor		
100	50.3						Reddish to brown, SHALE (weathered bedrock), wet, no odor		
							<i>Bedrock Refusal @ ~99.8' bgs</i>		
101									
102									
103									
104									
105									
106									
107									

<p><u>LEGEND</u></p> <p>S - SPLIT SPOON SOIL SAMPLE</p> <p>U - UNDISTURBED SOIL SAMPLE</p> <p>C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bedrock Refusal @ ~99.8' bgs</p> <p>10.0' of Fill Materials (3.6' - 13.6' bgs)</p> <p>5.0 of Blue Slag (13.6' - 18.6' bgs)</p> <p>Native Soil @ ~18.6' bgs</p> <p>Groundwater @ ~6.0' bgs</p>
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GENERAL NOTES:

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Associates, P.C.

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Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING **B09-26**

SHEET 1 of 7

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.

DRILLER Neal Short

LABELLA REPRESENTATIVE: E. Dumrese

BORING LOCATION

GROUND SURFACE ELEVATION 252.73'

DATUM NAVD88

START DATE 6/29/09 END DATE 6/29/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
						Ground Elevation: 252.73' Bottom Elevation: 175.00' Total Depth: 77.73'		
1	NA		1'-2'		1.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
	NA					FILL MATERIALS		
	20					Brown, mc SAND and GRAVEL, some cinders, bricks and blue slag, moist, no odor		
2	22							
	24					Dark brown, mc SAND and GRAVEL, moist, no odor	0.0	
3	15		2'-4'		0.8'			
	11							
4	9							
	6					As above, moist, no odor		
5	2		4'-6'		1.4'	FOUNDRY SAND	0.0	
	3					5.2' Reddish to brown, mc SAND, moist, no odor		
6	3					5.5' As above, wet, no odor		
	2					6.0' As above, saturated, no odor	0.0	
7	2		6'-8'		2.0'			
	2							
8	2							
	3					8.0' As above, saturated, no odor	0.0	
9	2		8'-10'		1.5'			
	1							
10	1					10.0' As above, saturated, no odor	0.0	
11	1		10'-12'		1.8'	BLUE SLAG		
	3					11.5' Black to dark brown, organic matter and blue slag, saturated, sulfur odor		
12	8							
	4					12.0' As above, saturated, sulfur odor	0.0	
13	10		12'-14'		1.0'			
	6							
14	4							
	4					14.0' No recovery	NA	
15	6		14'-16'		0.0'			
	4							
16	6							

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

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- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.73' DATUM
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/29/09 END DATE 6/29/09

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
						Ground Elevation: 252.73' Bottom Elevation: 175.00' Total Depth: 77.73'		
17	2		16'-18'		0.0'	No Recovery	NA	
	2							
	2							
18	1		18'-20'		1.0'	Brown, mc SAND, saturated, no odor <u>NATIVE SOIL</u>	0.0	
19	1							
	3							
20	3		20'-22'		1.3'	19.0' Brown, peat moss, some organic matter/roots, saturated, sulfur odor 19.5' Brown to grey, SILT, little mf Sand, wet, no odor 20.0' As above, wet, no odor	0.0	
21	1							
	1							
22	3		22'-24'		1.6'	20.6' As above, some peat moss mixed in, wet, no odor <u>As above, saturated, no odor</u>	0.0	
23	1							
	2							
24	2		25'-27'		1.9'	22.0' <u>STANDARD SAMPLING BEGINS 24.0' - 108.0'</u>		
25	NA							
	NA							
26	1		30'-32'		1.8'	25.0' As above, saturated, no odor	0.0	
27	1							
	2							
28	2							
29	2							
30	2							
31	2							
	2							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

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ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-26

SHEET 3 OF 7

JOB # 209447

CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 252.73'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/29/09

END DATE 6/29/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: 252.73' Bottom Elevation: 175.00' Total Depth: 77.73'		
33	NA							NA	
34	NA								
35	1		35'-37'		1.0'	35.0'	Greyish to brown, SILT, little Clay, saturated, no odor	0.0	
36	1								
37	2								NA
38	3								
39	NA							NA	
40	NA								
41	1		40'-42'		1.8'	40.0'	As above, saturated, no odor	0.0	
42	1								
43	2								NA
44	3								
45	NA							NA	
46	NA								
47	1		45'-47'		2.0'	45.0'	Greyish to brown, SILT, some mf Sand, little Clay, saturated, no odor	0.0	
48	1								
49	1								
50	NA								
51	NA								

LEGEND

- S - SPLIT SPOON SOIL SAMPLE
- U - UNDISTURBED SOIL SAMPLE
- C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

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Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-26**
SHEET 4 OF 7
JOB # 209447
CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.73' DATUM
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/29/09 END DATE 6/29/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoons ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)			
Ground Elevation: 252.73' Bottom Elevation: 175.00' Total Depth: 77.73'								
48	NA					As above, saturated, no odor	NA	
	NA							
	NA							
49	NA							
	NA							
50	NA	50'-52'		1.9'	50.0'		0.0	
	WH							
51	WH							
	1							
52	1						NA	
	NA							
53	NA						NA	
	NA							
54	NA							
	NA							
55	WH					0.0		
	WH							
56	1	55'-57'		2.0'	55.0'	Grey, mf SAND and SILT, saturated, no odor		
	1							
57	NA							
	NA							
58	NA						NA	
	NA							
59	NA							
	NA							
60	NA	60'-62'		1.8'	60.0'		0.0	
	3							
61	3							
	3							
62	3							
	NA							
	NA							

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

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Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-26**
SHEET 5 OF 7
JOB # 209447
CHKD. BY:

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.73' DATUM
LABELLA REPRESENTATIVE: E. Dumrese START DATE 6/29/09 END DATE 6/29/09

TYPE OF DRILL RIG:				WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS				

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
							Ground Elevation: 252.73' Bottom Elevation: 175.00' Total Depth: 77.73'		
64	NA							NA	
65	NA								
66	1		65'-67'		1.7'	65.0'	Grey, SILT, trace f Sand, saturated, no odor	0.0	
67	1								
68	1							NA	
69	NA								
70	NA							NA	
71	1								
72	3		70'-72'		2.0'	70.0'	Greyish to brown, SILT, little mf Sand and Clay, wet, no odor	0.0	
73	5								
74	NA							NA	
75	NA								
76	1		75'-77'		1.4'	75.0'	AS above, wet, no odor	0.0	
77	2								
78	3								
	5								
	NA								
	NA								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 252.73'

DATUM

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 6/29/09

END DATE 6/29/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)				
Ground Elevation: 252.73'						Bottom Elevation: 175.00'		Total Depth: 77.73'	
79	NA							NA	
	NA								
	NA								
80	NA								
	NA							0.0	
81	1		80'-82'		2.0'	80.0'	Grey, SILT and mf SAND, wet, no odor		
	1								
82	1								
	1								
83	NA							NA	
	NA								
84	NA							NA	
	NA								
85	NA							NA	
	NA								
86	1								
	3								
87	3		85'-87'		2.0'	85.0'	As above, wet, no odor		
	3								
88	5					86.0'	Grey, mc SAND, some Silt, wet, no odor		
	NA								
89	NA							NA	
	NA								
90	NA								
	NA								
91	1		90'-92'		1.7'	90.0'	As above, wet, no odor		
	2					90.8'	Grey, SILT, little mf Sand, wet, no odor		
92	3								
	5								
93	NA								
	NA								

LEGEND

S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION
DRILLER Neal Short	GROUND SURFACE ELEVATION 252.73' DATUM
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 6/29/09 END DATE 6/29/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
AUGER SIZE AND TYPE 4.25-Inch ID	DATE	TIME	WATER	CASING	REMARKS
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (INCHES)					Ground Elevation: 252.73'	Bottom Elevation: 175.00'	Total Depth: 77.73'
94	NA					95.0'	As above, wet, no odor	NA	
	NA								
95	NA								
	NA								
96	4		95'-97'		2.0'	100'	Grey, SILT and mc SAND, wet, no odor, some iron staining	0.0	
	4								
97	6								
	7								
98	NA					105'	As above, wet, no odor	0.0	
	NA								
99	NA								
	NA								
100	NA					105.5'	Brownish to red, mc SAND, some Silt, wet, no odor		
	NA								
101	1								
	NA								
102	6					106.8'	As above, some pieces of black shale, wet, no odor		
	9								
103	9		100'-102'		2.0'				
	NA								
104	NA					105'-107'	As above, wet, no odor	0.0	
	NA								
105	NA								
	NA								
106	2					105'	As above, wet, no odor		
	3								
107	6								
	19								
108	NA					105'	As above, wet, no odor		
	NA								
	NA								
	NA								

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 108' bgs 10.5' of fill materials including blue slag (1.0'-11.5') 4.5' of blue slag (11.5' - 16.0') Native soil encountered @ 19.0' bgs Groundwater @ ~ 5.5' bgs
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-27**

SHEET 1 of 8

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 252.14'	DATUM <u>NAVD88</u>	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 7/13/09	END DATE 7/13/09	

TYPE OF DRILL RIG: _____ AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD _____	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
1	NA		1'-2'		0.6'	0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
	NA					1.0'	FILL MATERIALS Brown, mc SAND, some Gravel and Cinders, moist, no odor		
2	8		2'-4'		1.5'	2.0'	As above, moist, no odor	0.0	
	9					3.2'	Reddish to brown, mc SAND (foundry sand), moist, no odor		
3	10					4.0'	As above, saturated @~5.6' bgs		
4	5		4'-6'		0.9'	4.0'	As above, saturated @~5.6' bgs	0.0	
	5					6.0'	As above, saturated, no odor		
5	7					7.6'	Ash, saturated, no odor		
6	10					8.0'	Brown, mc SAND, saturated, no odor		
7	2		6'-8'		0.9'	9.3'	Crushed brick	0.0	
	4					9.9'	BLUE SLAG Blue slag, saturated, sulfur odor		
8	12					10.0'	As above, saturated, no odor		
9	19		10'-12'		1.0'	10.0'	As above, saturated, no odor	1.2	
	2					12.0'	As above, saturated, no odor		
10	4					14.0'	As above, saturated, no odor		
11	5		12'-14'		0.8'	12.0'	As above, saturated, no odor	0.4	
	5					14.0'	As above, saturated, no odor		
12	6					14.0'	As above, saturated, no odor		
13	10		14'-16'		0.2'	14.0'	As above, saturated, no odor	0.0	
	7					14.0'	As above, saturated, no odor		
14	3					14.0'	As above, saturated, no odor		
15	5		14'-16'		0.2'	14.0'	As above, saturated, no odor	0.0	
	8					14.0'	As above, saturated, no odor		
16	7		14'-16'		0.2'	14.0'	As above, saturated, no odor	0.0	

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES:
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



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Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-27**
SHEET 2 of 8
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
17	3		16'-18'		1.5'	16.0'	As above, saturated, sulfur odor	0.0	
	3						NATIVE SOIL		
	4					16.8'	Brown to dark brown, SILT, trace f Sand and Clay, wet, slight sulfur odor		
18	4					17.6'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor		
	2					18.0'	As above, wet, no odor	0.0	
19	2		18'-20'		1.5'				
	2								
20	3					19.5'	Light brown to grey, SILT, little mf Sand, wet, no odor		
	3					20.0'	As above, wet, no odor	0.0	
21	4		20'-22'		2.0'				
	3								
22	4								
	NA						STANDARD SAMPLING BEGINS 22.0' - 111'	NA	
23	NA								
	NA								
24	NA								
	NA							0.0	
25	NA		25'-27'		1.7'				
	WH					25.0'	As above, saturated, no odor		
26	1								
	2								
27	2								NA
	NA								
28	NA								
	NA								NA
29	NA								
	NA								
30	NA								
	1					30.0'	No Recovery	0.0	
31	3		30'-32'		0.0'				
	3								
	3								

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES: WR = Weight of Rods
WH = Weight of Hammer

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'			
33	NA						Grey, SILT, little Clay, trace f Sand, saturated, no odor	NA		
	NA									
	NA									
34	NA									
	NA								0.0	
35	NA		35'-37'		2.0'	35.0'				
	WR									
36	WH									
	2									
37	3								NA	
	NA									
38	NA									
	NA							NA		
39	NA									
	NA									
40	WR					40.0'	Grey, SILT, little f Sand and Clay, no odor	0.0		
41	WH		40'-42'		2.0'					
	2									
42	2									
	NA							NA		
43	NA									
	NA									
44	NA									
	NA							0.0		
45	NA		45'-47'		1.7'	45.0'	Greyish to brown, SILT, little mf Sand and Clay, saturated, no odor			
	WR									
46	WH									
	WH							NA		
47	1									
	NA									
	NA									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: WR = Weight of Rods WH = Weight of Hammer
---	---

GENERAL NOTES:

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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
48	NA						Grey, SILT, some mf Sand, saturated, no odor	NA	
	NA								
	NA								
49	NA								0.0
	NA								
50	NA		50'-52'		1.9'	50.0'			
	NA								
51	WH								NA
	NA								
52	NA								
	NA								
53	NA								NA
	NA								
54	NA								
	NA								
55	WR					55.0'	As above, saturated, no odor	0.0	
	WH								
56	WH		55'-57'		1.4'				
	1								
57	NA							0.0	
	NA								
58	NA								
	NA								
59	NA							NA	
	NA								
60	WR		60'-62'		1.6'	60.0'	As above, some organic matter, saturated, no odor		
	WH								
61	4							0.0	
	4								
62	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 WR = Weight of Rods
 WH = Weight of Hammer

GENERAL NOTES:
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
63	NA						Grey, SILT, little mf Sand, trace Clay, saturated, no odor	NA	
	NA								
	NA								
64	NA								0.0
	NA								
65	NA		65'-67'		2.0'	65.0'			
	WR								
	WH								
66	3								
	3								
67	NA								NA
	NA								
68	NA							NA	
	NA								
69	NA								
	NA								
70	1					70.0'	As above, wet, no odor	0.0	
	1								
71	2		70'-72'		1.8'				
	3								
72	NA							NA	
	NA								
73	NA								
	NA								
74	NA							0.0	
	NA								
75	2		75'-77'		2.0'	75.0'	As above, wet, no odor		
	2								
76	2							NA	
	3								
77	NA								
	NA								

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES: WR = Weight of Rods WH = Weight of Hammer</p>
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GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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Port Marina Predevelopment Site
Conditions Gap Investigation
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BORING **B09-27**
SHEET 6 of 8
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'										
78	NA					80.0'	As above, wet, no odor	NA		
79	NA									
80	NA									
80	2	80'-82'		1.8'						0.0
81	2									
82	2									
82	NA									NA
83	NA									
84	NA									NA
84	NA									
85	NA									
85	WH							85.0'		Grey, SILT and mf SAND, trace Clay, wet, no odor	0.0
86	WH	85'-87'		2.0'						
87	2									
88	2									
88	NA							NA		
89	NA									
90	NA	90'-92'		1.6'		90'.0'	As above, wet, no odor	0.0		
91	WH									
91	WH									
92	3									
92	NA							NA		
92	NA									

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>WR = Weight of Rods WH = Weight of Hammer</p>
--	---

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
93	NA							NA	
	NA								
	NA								
94	NA								
	NA							0.0	
95	4		95'-97'			95.0'	Grey, SILT, little f Sand and Clay, wet, no odor		
	4								
96	4								
	4							NA	
97	NA								
	NA								
98	NA								
	NA							NA	
99	NA								
	NA								
100	2					100'	Grey, SILT, some mf Sand, wet, no odor		
	4							0.0	
101	5		100'-102'						
	5								
102	NA								
	NA							NA	
103	NA								
	NA								
104	NA								
	NA							0.0	
105	NA		105'-107'						
	WR					105'	As above, wet, no odor		
106	WR								
	WH							NA	
107	3								
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 WR = Weight of Rods
 WH = Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 252.14' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/13/09 END DATE 7/13/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD Split Spoons ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.14' Bottom Elevation: 157.00' Total Depth: 95.94'		
108	NA							NA	
109	NA								
110	NA		110'-112'		0.6'	110'	Reddish to brown, SILT, some mc Sand and Gravel, wet, no odor	0.0	
111	47								
112	50/2						Bedrock Refusal @ ~111'		
113									
114									
115									
116									
117									
118									
119									
120									
121									
122									

<p>LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES: Bedrock Refusal @ ~111' bgs 8.9' of Fill Materials (1.0' to 9.9' bgs) 6.9' of Blue Slag (9.9' bgs to 16.8' bgs) Native Soil @ ~16.8' bgs Groundwater @ ~5.6' bgs</p>
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	

D E P T H	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	N O T E S
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'			
1	NA		1'-2'		0.6'	0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
	8					1.0'	Brown, mc SAND and GRAVEL, little Silt, moist, no odor		
2	6					2.0'	As above, moist, no odor	0.0	
	4		2'-4'		1.0'	2.2'	FILL MATERIALS Reddish to brown, mc SAND (foundry sand), trace blue slag and cinders, moist, no odor		
3	3					4.0'	As above, no blue slag or cinders, moist, no odor	0.0	
	2		4'-6'		1.2'	4.6'	As above, wet @~5.0' bgs		
4	2					6.0'	As above, saturated, no odor	0.0	
	3		6'-8'		2.0'				
5	3					8.0'	As above, saturated, no odor	0.0	
	6		8'-10'		1.2'	9.4'	BLUE SLAG Blue slag, saturated, sulfur odor		
6	10					10.0'	As above, saturated, sulfur odor	0.0	
	12		10'-12'		1.2'				
7	5					12.0'	As above, saturated, sulfur odor	0.0	
	10		12'-14'		0.5'				
8	6					14.0'	As above, saturated, sulfur odor	0.0	
	8		14'-16'		0.9'				
9	12								
	7								
10	12								
	5								
11	17								
	14								
12	17								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'			
17	4		16'-18'		1.4'	As above, saturated, sulfur odor	0.0		
	3								
	4								
18	3				17.5'	Brown, peat moss, some organic matter/roots, saturated, sulfur odor			
19	2		18'-20'		0.0'	No Recovery	0.0		
	2								
	2								
20	2				20.0'	Grey to brown, SILT, little f Sand, saturated, no odor	0.0		
21	2		20'-22'	1.2'					
	3								
22	3								
23	NA					STANDARD SAMPLING BEGINS 22.0' - Bottom	NA		
	NA								
	NA								
	NA								
25	NA		25'-27'	1.6'	25.0'	Grey, SILT and CLAY, trace f Sand, saturated, no odor	0.0		
26	1								
	1								
27	1						NA		
	NA								
	NA								
28	NA						NA		
	NA								
	NA								
30	NA						0.0		
	1		30'-32'	1.5'	30.0'	As above, saturated, no odor			
31	1								
	1								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'		
33	NA						Greyish to brown, SILT, trace Clay and f Sand, saturated, no odor	NA	
	NA							0.0	
34	NA								
	NA								
35	NA		35'-37'		1.6'	35.0'			
	1								
36	1								
	1								
37	1								NA
	NA								
38	NA								
	NA								
39	NA								
	NA								
40	WR					40.0'	Grey, SILT, trace f Sand, saturated, no odor	0.0	
	WR								
41	WR		40'-42'		2.0'				
	WR								
42	WR								
	NA								
43	NA							NA	
	NA								
44	NA								
	NA								
45	NA		45'-47'		2.0'	45.0'	Grey, SILT, little mf Sand, trace Clay, saturated, no odor	0.0	
	WR								
46	WR								
	WR								
47	WR							NA	
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)					
							Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'			
48	NA						As above, saturated, no odor	NA		
	NA									
	NA									
49	NA								0.0	
50	NA		50'-52'		2.0'	50.0'				
	WR									
51	WR									
	WR									
52	WR								NA	
	NA									
53	NA								NA	
	NA									
54	NA									
	NA									
55	WR					55.0'	As above, saturated, no odor	0.0		
56	WR		55'-57'		1.6'					
	WR									
57	WR									
	NA							NA		
58	NA									
	NA									
59	NA									
	NA							0.0		
60	2		60'-62'		2.0'	60.0'	Greyish to brown, SILT, little Clay, trace f Sand, wet, no odor			
	2									
61	2							NA		
	4									
62	NA									
	NA									

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-28/MW09-3**

SHEET 5 of 7

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.	BORING LOCATION		
DRILLER Neal Short	GROUND SURFACE ELEVATION 252.04'	DATUM <u>NAVD88</u>	
LABELLA REPRESENTATIVE: E. Dumrese	START DATE 7/14/09	END DATE 7/14/09	

TYPE OF DRILL RIG: _____	WATER LEVEL DATA			
AUGER SIZE AND TYPE 4.25-Inch ID	DATE	TIME	WATER	CASING
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>				
ROCK DRILLING METHOD				

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'		
63	NA							NA	
64	NA								
65	NA		65'-67'		2.0'	65.0'	Grey, SILT, some Clay, trace f Sand, wet, no odor	0.0	
66	WH								
67	2							NA	
68	2								
69	NA							NA	
70	NA								
71	WH					70.0'	As above, saturated, no odor	0.0	
72	2		70'-72'		2.0'				
73	2								
74	1							NA	
75	NA								
76	NA								
77	NA		75'-77'		2.0'	75.0'	Brown to grey, SILT, little Clay and f Sand, wet, no odor	0.0	
	4								
	4								
	3							NA	
	5								
	NA								
	NA								

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE</p> <p>U - UNDISTURBED SOIL SAMPLE</p> <p>C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'		
78	NA						Greyish to brown, SILT, some mf Sand, trace Clay, wet, no odor	NA	
	NA								
	NA								
79	NA								
	NA								
80	NA			80'-82'		80.0'			0.0
	WH								
81	WR								
	WH								
82	3								NA
	NA								
83	NA								NA
	NA								
84	NA							NA	
	NA								
85	NA							NA	
	WR								
86	WR			85'-87'		85.0'	As above, wet, no odor	0.0	
	2								
87	3								
	NA								
88	NA							NA	
	NA								
89	NA							0.0	
	NA								
90	3			90'-92'		90.0'	Grey, SILT, little f Sand, wet, no odor	0.0	
	3								
91	3							NA	
	5								
92	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 252.04' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/14/09 END DATE 7/14/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 252.04' Bottom Elevation: 170.00' Total Depth: 82.04'			
93	NA					Grey, SILT, little f Sand and trace Clay, saturated, no odor	NA		
	NA								
	NA								
94	NA								
	NA							0.0	
95	2		95'-97'		2.0'				
	4								
96	5								
	6							NA	
97	NA								
	NA								
98	NA							NA	
	NA								
99	NA								
	NA								
100	3					100'	0.0		
	5								
101	7		100'-102'		2.0'				
	7								
102	NA								
	NA						NA		
103	NA								
	NA								
104	NA								
	NA						NA		
105	NA		105'-107'		2.0'	105'			
	WR								
106	WR								
	WH								
107	50/2					107'	0.0		

LEGEND	NOTES:
S - SPLIT SPOON SOIL SAMPLE	Bedrock Refusal @~107' bgs
U - UNDISTURBED SOIL SAMPLE	7.2' of Fill Materials (2.2' to 9.4' bgs)
C - ROCK CORE SAMPLE	8.1' of Blue Slag (9.7' to 17.5' bgs)
	Native Soil @ ~17.5' bgs
	Groundwater @~5.0' bgs
	Monitoring well MW09-3 installed to 20.0' bgs. 17.0' of screen (3.0'-20.0')

GENERAL NOTES:
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300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-29**
SHEET 1 of 7
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'		
1	NA		1'-2'		0.4'	0.0'	Asphalt - not sampled (augered to ~1.0'bgs)	0.0	
	11					1.0'	Brown, mc SAND, some c Gravel, moist, no odor		
2	12				2.0'	As above, moist, no odor	0.0		
3	50/5		2'-4'		0.2'				
4	3		4'-6'	1.2'	4.0'	As above, moist, no odor	0.0		
5	5				4.2'	<u>FILL MATERIALS</u> Dark brown, mc SAND, some cinders and coals, moist, no odor			
6	3				5.0'	AS above, wet @~5.0' bgs, no odor			
7	4		6'-8'	1.0'	6.0'	<u>FOUNDRY SAND</u> Reddish to brown, mc SAND, trace cinders and coals, saturated, no odor	0.0		
8	3				8.0'	As above, saturated, no odor			
9	1				9.2'	<u>BLUE SLAG</u> As above, and Blue Slag, saturated, sulfur odor	1.3		
10	2		8'-10'	1.1'	10.0'	As above, saturated, sulfur odor	0.2		
11	6				10.0'				
12	5				12.0'	As above, saturated, sulfur odor	0.6		
13	3		12'-14'	1.3'	14.0'	As above, saturated, sulfur odor	0.0		
14	4				14.0'				
15	3				15.3'	<u>NATIVE SOIL</u> Greyish to brown, SILT, little f Sand and organic matter, saturated, slight sulfur			
16	2								
	1								

<p><u>LEGEND</u></p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'		
17	2					16.0'	As above, saturated, no odor	0.0	
	2								
	2		16'-18'		2.0'	17.2'	Grey, SILT, trace f Sand and Clay, saturated, no odor		
18	3								
	1					18.0'	As above, saturated, no odor	0.0	
	2								
19	3		18'-20'		2.0'	18.4'	Grey, mc SAND, some organic matter, saturated, no odor		
	2								
20	1					20.0'	As above, saturated, no odor	0.0	
	1								
21	1		20'-22'		2.0'	21.4'	Grey, SILT and CLAY, trace f Sand, saturated, no odor		
	1								
22	NA						<u>STANDARD SAMPLING BEGINS 22.0' - 106.6'</u>	NA	
23	NA								
	NA								
24	NA								
	NA								
25	NA		25'-27'		1.3'	25.0'	As above, saturated, no odor	0.0	
	1								
26	1								
	1								
27	1								NA
	NA								
28	NA								
	NA								
29	NA								NA
	NA								
30	NA								
	2					30.0'	Grey, SILT, little mf Sand, trace Clay, saturated, no odor	0.0	
31	2		30'-32'		2.0'				
	2								
	2								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
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 DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'		
33	NA						As above, saturated, no odor	NA	
34	NA							0.0	
35	NA		35'-37'		2.0'	35.0'	As above, saturated, no odor		
36	1								
37	2						As above, saturated, no odor	NA	
38	2								
39	NA						As above, saturated, no odor	NA	
40	NA								
41	WR		40'-42'		1.8'	40.0'	Grey, SILT, some f Sand, trace Clay, saturated, no odor	0.0	
42	WH								
43	WH						As above, saturated, no odor	NA	
44	WH								
45	NA		45'-47'		1.5'	45.0'	Grey, SILT, some Clay, little f Sand, saturated, no odor	0.0	
46	NA								
47	WR						As above, saturated, no odor	NA	
	WH								
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 WR= Weight of Rods
 WH= Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
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CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'		
48	NA						As above, saturated, no odor	NA	
	NA								
49	NA								
	NA								
50	NA		50'-52'		1.7'	50.0'			0.0
	WR								
51	WH								
	WH								
52	1								NA
	NA								
53	NA								
	NA								
54	NA							NA	
	NA								
55	WR					55.0'	Grey, SILT, little mf Sand, trace Clay, saturated, no odor	0.0	
	WH								
56	WH		55'-57'		1.8'				
	WH								
57	1								
	NA								
58	NA								NA
	NA								
59	NA								
	NA								
60	NA		60'-62'		1.8'	60.0'		Grey, SILT, some Clay and mf Sand, saturated, no odor	0.0
	WR								
61	WR								
	WH								
62	WH							NA	
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: WR= Weight of Rods
 WH= Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'			
63	NA					Grey, SILT, some mf Sand, saturated, no odor	NA		
	NA								
	NA								
64	NA								
	NA								
65	NA		65'-67'		1.3'			0.0	
	WH								
66	WH								
	2								
67	3							NA	
	NA								
68	NA							NA	
	NA								
69	NA								
	NA								
70	2				70.0'	Grey, SILT, some organic matter, saturated, no odor	0.0		
71	4		70'-72'		1.7'	71.2' Grey, SILT, little mf Sand, saturated, no odor			
	4								
72	4								
	NA								
73	NA						NA		
	NA								
74	NA								
	NA								
75	NA		75'-77'		1.8'	75.0' As above, saturated, no odor	0.0		
	WH								
76	WH								
	1								
77	2						NA		
	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 WR= Weight of Rods
 WH= Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation

Port of Rochester, New York

BORING B09-29

SHEET 6 of 7

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 254.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/10/09 END DATE 7/10/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD Split Spoons					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES	
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
						Ground Elevation: 254.28' Bottom Elevation: 195.0" Total Depth: 59.28'			
78	NA					Grey, SILT and mf SAND, trace Clay, saturated, no odor	NA		
	NA								
	NA								
79	NA								
	NA								
80	2		80'-82'	1.9'	80.0'			0.0	
	2								
81	2								
	3							NA	
82	NA								
	NA								
83	NA							NA	
	NA								
84	NA								
	NA								
85	1				85.0'	As above, saturated, no odor	0.0		
	1								
86	2		85'-87'	2.0'					
	3								
87	NA						NA		
	NA								
88	NA								
	NA								
89	NA						0.0		
	NA								
90	WR		90'-92'	2.0'	90.0'	Grey, SILT and mf SAND, saturated, no odor			
	WH								
91	3						NA		
	3								
92	NA								
	NA								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: WR= Weight of Rods
 WH= Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **B09-29**

SHEET 7 of 7

JOB # 209447

CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc.

BORING LOCATION

DRILLER Neal Short

GROUND SURFACE ELEVATION 254.28'

DATUM NAVD88

LABELLA REPRESENTATIVE: E. Dumrese

START DATE 7/10/09

END DATE

7/10/09

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD Split Spoons

ROCK DRILLING METHOD

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 254.28' Bottom Elevation: 196.0" Total Depth: 59.28'		
93	NA							NA	
	NA								
	NA								
94	NA								
	NA							0.0	
95	2		95'-97'		1.7'	95.0'	Grey, SILT, some f Sand, saturated, no odor		
	5								
96	6								
	8							NA	
97	NA								
	NA								
98	NA								
	NA							NA	
99	NA								
	NA								
100	2					100'	As above, saturated, no odor	0.0	
	4								
101	6		100'-102'		1.6'				
	12								
102	NA								
	NA							NA	
103	NA								
	NA								
104	NA								
	NA							0.0	
105	3		105'-107'		1.7'	105'	As above, saturated, no odor		
	70								
106	73					106.6'	Reddish to brown, SHALE (weathered bedrock), saturated, no odor		
	NA						<i>Bedrock Refusal @~106.6' bgs</i>	NA	
107	NA								
	NA								
	NA								

LEGEND

S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

Bedrock Refusal @~106.6' bgs
5.0' of Fill Materials (4.2' to 9.2' bgs)
6.1' of Blue Slag (9.2' to 15.3' bgs)
Native Soil @ ~15.3' bgs
Groundwater @~5.0' bgs

GENERAL NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 276.52' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/6/09 END DATE 7/6/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
	Ground Elevation: 265.98' Bottom Elevation: 235.98' Total Depth: 30.00'							
0.0'	2					Topsoil - not sampled	0.0	
1.2'	4		0'-2'		0.7'	Brown, mc SAND, little Silt, moist, no odor		
	3					FILL MATERIALS		
2.0'	4					As above, some crushed concrete, no odor	0.0	
2.0'	22							
2.0'	7		2'-4'		0.6'			
	2							
	4							
4.0'	2					Reddish to brown, mc SAND (foundry sand), cinders, coals, and blue slag	0.0	
	3		4'-6'		1.0'	slight sulfur odor, moist		
	2							
	2							
6.0'	5					As above, no blue slag, moist, slight sulfur odor	0.0	
6.0'	54		6'-8'		1.8'			
	27							
	13							
8.0'	7					As above, moist, no odor	0.0	
8.0'	11		8'-10'		2.0'	NATIVE SOIL		
8.3'	11					Light brown, SILT, little f Sand, moist, no odor, some iron staining		
10.0'	13							
10.0'	7					As above, moist, no odor	0.0	
10.0'	9		10'-12'		2.0'			
11.2'	11					Light brown, SILT, little f Sand and Clay, moist, no odor		
	14							
	NA					STANDARD SAMPLING BEGINS 12.0' - 30.0'	NA	
	NA							
	NA							
	NA							
14.0'	NA					Grey, SILT, little f Sand, moist, no odor	0.0	
14.0'	5		14'-16'		2.0'			
	11							

LEGEND
S - SPLIT SPOON SOIL SAMPLE
U - UNDISTURBED SOIL SAMPLE
C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 276.52' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/6/09 END DATE 7/6/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 265.98' Bottom Elevation: 235.98' Total Depth: 30.00'		
17	10						As above, moist, no odor		
	10								
	NA								
18	NA								
	NA								
19	NA								
	NA								
20	NA								
	4					20.0'			
21	9	20'-22'		2.0'					
	12								
22	11								
	NA								
23	NA								
	NA								
24	NA								
	NA								
25	5	25'-27'		1.2'		25.0'	Grey, SILT, some mf Sand, trace Clay, moist, no odor		
	10								
26	11								
	13								
27	NA								
	NA								
28	3					28.0'	As above, wet, no odor		
	6	28'-30'		2.0'					
29	11								
	11								
30							Bottom @ 30.0' BGS		
31									

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 30.0' bgs
 6.3' of fill materials including blue slag (2.0'-8.3')
 Native soil @ 8.3' bgs
 Groundwater @ ~ 28.0' bgs

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 265.98' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG:	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS
AUGER SIZE AND TYPE 4.25-Inch ID					
OVERBURDEN SAMPLING METHOD <u>Split Spoons</u>					
ROCK DRILLING METHOD					

DEPTH (Feet)	SAMPLE					SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)			
						Ground Elevation: 265.98' Bottom Elevation: 235.98' Total Depth: 30.00'		
0.0'	2					Topsoil - not sampled	0.0	
1.0'	3		0'-2'		1.1'	FILL MATERIALS		
1.0'	19					Brown, mc SAND and Cinders and Coals, moist, no odor		
2.0'	12							
2.0'	6						0.0	
2.5'	6		2'-4'		1.4'	Foundry Sand, moist, no odor		
2.5'	7					BLUE SLAG		
4.0'	8					Blue slag, saturated, sulfur odor	0.0	
4.0'	4		4'-6'		0.8'			
6.0'	5					As above, saturated, sulfur odor	0.0	
6.0'	3							
6.0'	1		6'-8'		0.3'			
8.0'	2					RE-WORKED NATIVE SOIL		
8.0'	3					Black, SILT, little f Sand and Clay, saturated, no odor	0.0	
10.0'	2		8'-10'		1.3'			
10.0'	2					No Recovery	NA	
10.0'	3							
10.0'	1		10'-12'		0.0'			
12.0'	2					NATIVE SOIL		
12.0'	1					Light brown, SILT, some Clay, saturated, no odor	0.0	
14.0'	4		12'-14'		1.8'			
14.0'	4					As above, saturated, no odor	0.0	
14.0'	5							
14.0'	4		14'-16'		2.0'			
14.0'	6							
14.0'	8							
14.0'	8							

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **E09-02**
SHEET 2 of 2
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 265.98' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG: AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
17	4		16'-18'		0.9'	16.0'	Light brown, SILT and CLAY, saturated, no odor	0.0	
	4								
	4								
	4								
18	10		18'-20'		2.0'	18.0'	As above, saturated, no odor	0.0	
19	2								
	2								
	2								
20	NA		23'-25'		2.0'	23.0'	Grey, mc SAND, little Silt, saturated, no odor	0.0	
21	NA								
	NA								
	NA								
22	NA		28'-30'		1.9'	28.0'	As above, wet, no odor	0.0	
23	NA								
	NA								
	NA								
24	30						GLACIAL TILL		
25	30					24.0'	Reddish to brown, mc SAND, little Silt, moist, no odor		
26	32								
	NA								
27	NA								
	NA								
28	NA								
29	12								
	25								
30	26								
	27								
31									

LEGEND S - SPLIT SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 30' bgs 3.0' of fill materials including blue slag (1.0'-4.0') 4.0' of blue slag (4.0' - 8.0') Native soil encountered @ 12.0' bgs	Groundwater @ ~ 4.0' bgs
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 266.01' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/2/09 END DATE 7/2/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 266.01'	Bottom Elevation: 236.01'	Total Depth: 30.00'	
0.0'	43					Asphalt		0.0	
1.2'	13		0'-2'		1.5'	FILL MATERIALS			
	4					Blue slag, cinders, and coals, moist, no odor			
2.0'	11					As above, moist, no odor		0.0	
	7								
1.9'	6		2'-4'						
	8								
4.0'	13					Reddish to brown, mc SAND, some Silt, moist, no odor		0.0	
5.2'	16		4'-6'		1.3'	BLUE SLAG			
	38					Blue slag, moist, sulfur odor			
6.0'	55					As above, wet @ ~6.8' bgs		0.0	
	25								
8.0'	11		6'-8'		0.3'	NATIVE SOIL			
	9					Light brown, SILT, some Clay, wet, no odor		0.0	
	9								
10.0'	6		8'-10'		0.9'				
	2					As above, wet, no odor		0.0	
	1								
	2								
	2		10'-12'		1.7'				
	WH							0.0	
	WH								
	3								
	3								
	NA							NA	
	NA								
	NA								
	NA								
15.0'	NA		15'-17'		1.0'				
	3					Light brown, SILT, little f Sand and Clay, wet, no odor		0.0	
	6								

STANDARD SAMPLING BEGINS 12.0' - 30.0'

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES: WH = Weight of Hammer

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 266.01' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/2/09 END DATE 7/2/09

TYPE OF DRILL RIG: _____ AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD <u>Split Spoons</u> ROCK DRILLING METHOD	WATER LEVEL DATA				
	DATE	TIME	WATER	CASING	REMARKS

DEPTH (feet)	SAMPLE					DEPTH (feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 266.01' Bottom Elevation: 236.01' Total Depth: 30.00'		
17	6							NA	
	8								
	NA								
18	NA								
	NA							NA	
19	NA								
	NA								
20	2					20.0'	Light brown, SILT and CLAY, little f Sand, wet, no odor	0.0	
	3								
21	8		20'-22'		2.0'		<u>NATIVE SOIL</u>		
	15					21.8'	Light brown, , mc SAND and SILT, some c Gravel, wet, no odor		
	NA							NA	
23	NA								
	NA								
24	NA								
	NA								
25	17		25'-27'		2.0'	25.0'	As above, saturated, no odor	0.0	
	21								
26	38							NA	
	33								
27	NA								
	NA								
28	18					28.0'	As above, saturated, no odor	0.0	
	26								
29	30		28'-30'		1.8'				
	35								
30									
31									

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 30' bgs 4.0' of fill materials including blue slag (1.2'-5.2') 2.8' of blue slag (5.2' - 8.0') Native soil encountered @ 8.0' bgs Groundwater @ ~ 6.8' bgs
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GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 264.88' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/2/09 END DATE 7/2/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
							Ground Elevation: 264.88' Bottom Elevation: 234.88' Total Depth: 30.00'		
1	26		0'-2'		1.8'	0.0'	Asphalt - not sampled	0.0	
	14					1.0'	<u>FILL MATERIALS</u>		
	10						Brown, mc SAND and GRAVEL, cinders, coals, brick, moist, no odor		
2	7		2'-4'		2.0'	2.0'	As above, little blue slag and foundry sand, moist, slight sulfur odor,	0.0	
	5					2.9'	<u>BLUE SLAG</u>		
	4						Blue Slag, moist, sulfur odor		
3	16		4'-6'		0.5'	4.0'	As above, moist, sulfur odor	0.0	
	13								
	3								
4	5		6'-8'		0.7'	6.0'	As above, moist, some cinders and coals, moist, sulfur odor	0.0	
	12								
	8								
5	8		8'-10'		0.4'	8.0'	As above, wet @ ~ 8.0' bgs, sulfur odor	0.0	
	2								
	4								
6	7		10'-12'		0.6'	10.0'	As above, wet, sulfur odor	0.0	
	8								
	2								
7	6		12'-14'		0.0'	12.0'	No recovery	NA	
	2								
	2								
8	2		14'-16'		2.0'	14.0'	<u>NATIVE SOIL</u>	0.0	
	2						Light brown, SILT, some f Sand, little Clay, wet, no odor		
	3								
9	6								

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 264.88' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/2/09 END DATE 7/2/09

TYPE OF DRILL RIG:		WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS		

AUGER SIZE AND TYPE 4.25-Inch ID
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)				
						Ground Elevation: 264.88' Bottom Elevation: 234.88' Total Depth: 30.00'			
17	3		16'-18'		2.0'	16.0'	As above, wet, no odor	0.0	
	2								
	1								
18	2								
	3					18.0'	As above, wet, no odor	0.0	
19	6		18'-20'		1.5'				
	9								
20	2					19.5'	Reddish to brown, SILT and mc SAND, little Gravel, wet, no odor		
	NA						STANDARD SAMPLING BEGINS 12.0' - 30.0'	NA	
21	NA								
	NA								
22	NA								
	NA							0.0	
23	NA		23'-25'		1.8'				
	29					23.0'	Light brown, SILT and mc SAND, some angular Gravel, saturated, very dense, no odor		
24	100/6								
	NA								
25	NA								
	NA								
26	NA								
	NA								
27	NA								
	NA								
28	79					28.0'	As above, moist, very dense, no odor	0.0	
29	100/5		28'-30'		1.4'				
30									
31							Bottom @ 30.0' BGS		

LEGEND S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE	NOTES: Bottom of boring @ 30' bgs 3.0' of fill materials including blue slag (1.0'-4.0') 10.0' of blue slag (4.0' - 14.0') Native soil encountered @ 14.0' bgs Groundwater @ ~ 8.0' bgs
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GENERAL NOTES:

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.
300 STATE STREET, ROCHESTER, NEW YORK
ENVIRONMENTAL ENGINEERING CONSULTANTS

Port Marina Predevelopment Site

Conditions Gap Investigation
Port of Rochester, New York

BORING **E09-05**
SHEET 1 of 2
JOB # 209447
CHKD. BY: ED

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
DRILLER Neal Short GROUND SURFACE ELEVATION 262.28' DATUM NAVD88
LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG:		WATER LEVEL DATA			
DATE	TIME	WATER	CASING	REMARKS	

AUGER SIZE AND TYPE 4.25-Inch ID
OVERBURDEN SAMPLING METHOD Split Spoons
ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE				DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)					RECOVERY (FEET)
	Ground Elevation: 262.28' Bottom Elevation: 232.28' Total Depth: 30.00'							
1	NA				0.0'	Asphalt - Not sampled (augered to 1.0' bgs)	0.0	
	NA					FILL MATERIALS		
	3		0'-2'		0.3'	Black, Cinders and mc SAND, moist, no odor		
	4					NATIVE SOIL		
2	4				2.0'	Light brown, SILT, little mf Sand, moist, no odor	0.0	
	4							
3	4		2'-4'		1.0'			
	4							
4	5							
	3				4.0'	As above, wet @-5.5' bgs	0.0	
5	4		4'-6'		1.4'			
	7							
6	8							
	6				6.0'	Light brown, SILT, little f Sand and Clay, wet, no odor	0.0	
7	6		6'-8'		2.0'			
	7							
8	9							
	2				8.0'	Brownish to grey, SILT and CLAY, saturated, no odor	0.0	
9	3		8'-10'		0.6'			
	4							
10	4					STANDARD SAMPLING BEGINS 10.0' - 30.0'		
	NA						NA	
11	NA							
	NA							
12	NA						NA	
	NA							
13	NA		13'-15'		1.6'		NA	
	2				13.0'	As above, saturated, no odor	0.0	
14	5				13.5'	Grey, SILT, trace f Sand, wet, no odor		
	5							
15	5						NA	
	NA							
16	NA							

<p>LEGEND</p> <p>S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE</p>	<p>NOTES:</p> <p>Bottom of boring @ 30' bgs 1.0' of fill materials including blue slag (1.0'-2.0') Native soil encountered @ 2.0' bgs Groundwater @ -5.5' bgs</p>
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GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

CONTRACTOR: Nothnagle Drilling, Inc. BORING LOCATION
 DRILLER Neal Short GROUND SURFACE ELEVATION 262.28' DATUM NAVD88
 LABELLA REPRESENTATIVE: E. Dumrese START DATE 7/1/09 END DATE 7/1/09

TYPE OF DRILL RIG: _____ WATER LEVEL DATA
 AUGER SIZE AND TYPE 4.25-Inch ID DATE TIME WATER CASING REMARKS
 OVERBURDEN SAMPLING METHOD Split Spoons
 ROCK DRILLING METHOD

DEPTH (Feet)	SAMPLE					DEPTH (Feet)	SAMPLE DESCRIPTION	PID READINGS	NOTES			
	BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (FEET)							
							Ground Elevation: 262.28' Bottom Elevation: 232.28' Total Depth: 30.00'					
17	NA						Grey, SILT and CLAY, saturated, no odor					
	NA											
	NA											
	NA											
18	1		18'-20'	1.6'	18.0'		Grey, SILT and CLAY, saturated, no odor					
	1											
	1											
	1											
19	NA					Grey, mc SAND, some Silt, saturated, no odor						
	NA											
	NA											
	NA											
20	NA		23'-25'	2.0'	23.0'		Grey, mc SAND, some Silt, saturated, no odor					
	NA											
	NA											
	NA											
21	NA					As above, saturated, no odor						
	NA											
	NA											
	NA											
22	NA					As above, saturated, no odor						
	NA											
	NA											
	NA											
23	1		28'-30'	2.0'	28.0'		As above, saturated, no odor					
	1											
	1											
	1											
24	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
25	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
26	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
27	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
28	1					Bottom @ ~30.0' bgs						
	1											
	1											
	1											
29	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
30	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											
31	NA					Bottom @ ~30.0' bgs						
	NA											
	NA											
	NA											

LEGEND
 S - SPLIT SPOON SOIL SAMPLE
 U - UNDISTURBED SOIL SAMPLE
 C - ROCK CORE SAMPLE

NOTES:
 Bottom of boring @ 30' bgs
 1.0' of fill materials (1.0'-2.0')
 Native soil encountered @ 2.0' bgs
 Groundwater @ ~5.5' bgs

GENERAL NOTES:
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-01

SHEET 1 OF 2

JOB: 213099

CHKD BY:

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/5/2012	END DATE: 12/5/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0			3"	Crushed asphalt	0.0	
S1	37	8"	4.5"	Concrete	0.0	
	10			Brown SILT and fine grey ash, dry	0.0	
2	6					
	6					
S2	8	4"		Brown SILT and fine grey ash, some fine subangular gravel, dry	0.0	
	5				0.0	
4	4					
	5					
S3	6	9"	6"	Brown SILT and fine grey ash, some fine to coarse subangular gravel, dry	0.0	VOC/chloride sample collected
	5			Dark brown SILT, trace coarse SAND, trace coarse subangular gravel, moist, black staining, organic odor (peat), trace wood	0.0	
6	5			Dark brown SILT, trace coarse SAND, moist, black staining, organic odor (peat)	0.0	
	6					
S4	4	9.5"	2"	Grey clayey SILT, trace fine SAND, moist	0.0	
	3					
8	3			Crushed wood, no odor	0.0	
	3					
S5	1	16"	8"	Dark brown/grey clayey SILT, moist/wet	0.0	
	1			Grey /dark brown c.SAND, little SILT, moist, no odor, little crushed wood	0.0	
10	1			Dark brown SILT, trace fine SAND, moist	0.0	
	1					
S6	W.O.H.	18"	13"	Dark brown SILT, trace fine SAND, trace coarse grey SAND, moist	0.0	
	W.O.H.			Grey clayey SILT, trace fine SAND, moist	0.0	
12	2					
	1					
S7	W.O.H.	24"		Grey clayey SILT, trace fine SAND, little crushed wood, moist	0.0	
	W.O.H.				0.0	
14	W.O.H.					
	1					
S8	1	24"	8"	Dark brown SILT, trace fine SAND, little crushed wood, moist/wet	0.0	
	1			Grey clayey SILT, little crushed wood, moist	0.0	
16	1					
	1					
S9	2	24"		Grey clayey SILT, little crushed wood, wet	0.0	
	2				0.0	
18	2					
	2					
S10	W.O.H.	24"		Dark brown/grey clayey SILT, trace coarse grey SAND, little crushed wood, moist/wet	0.0	
	W.O.H.				0.0	
20	1					
	2					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		30-Ft.	~16'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%

c = coarse
 m = medium
 f = fine
 vf = very fine

BGS = Below the Ground Surface
 NA = Not Applicable

BORING: B12-01



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-01

SHEET 2 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle BORING LOCATION: TIME: TO
 DRILLER: Steve Gelser GROUND SURFACE ELEVATION: DATUM:
 LABELLA REPRESENTATIVE: JMG START DATE: END DATE:

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
 AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
 OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks	
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE				
20	W.O.H.	9"		Dark brown/grey clayey SILT, some coarse grey SAND, little crushed wood, wet	0.0		
S11	1				0.0		
22	2				0.0		
S12	W.O.H.	24"		Dark brown/grey clayey SILT, some coarse grey SAND, little crushed wood, saturated, bacterial sheen, no odor	0.0		
24	3				0.0		
	9						
	2						
S13	W.O.R.	18"	2"	Drk brown/grey clayey SILT, some c. grey SAND, little crushed wood, wet	0.0		
26	W.O.H.			Grey coarse SAND and dark brown SILT, little fine subrounded gravel, moist/wet	0.0		
	1						
	1						
S14	2	24"	18"	Grey coarse SAND and dark brown SILT, little fine subrounded gravel, moist/wet, bottom 2" transition to red SILT	0.0		
28	2			Red clayey SILT, some blue/grey sandy SILT, moist, crumbly, no odor	0.0		
	4						
	7						
S15	4	12"		Red clayey SILT, some blue/grey sandy SILT, moist, crumbly, no odor	0.0		
30	7				0.0		
	8						
	21						
32	Bottom of Exploration - 30'						
34							
36							
38							
40							
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES: 3" spoon from 4'-6'; 2" spoon for all other intervals	
DATE	TIME	ELAPSED TIME		30-Ft.	-16'		

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: B12-01



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-02

SHEET 1 OF 1

JOB: 213099

CHKD BY:

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/5/2012	END DATE: 12/5/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0	13	9"	4"	Brown/grey SILT and fine subangular gravel, little coarse SAND, dry (parking lot)	0.0	
S1	17			Dark brown/black coarse SAND, fine angular gravel, crushed black cinders, dry	0.0	
2	19					
	20					
S2	15	NA	NA	NO RECOVERY - Rock fragment in shoe	NA	
	13					
	7					
4	5					
S3	5	12"		Grey coarse SAND and grey SILT, little fine to coarse subangular gravel, moist, trace red staining	0.0	VOC/CI sample
	4				0.0	
	4					
6	4					
S4	2	7"		Grey/red SILT and coarse SAND, trace crushed black slag, wet, no odor	0.0	
	2				0.0	
	1					
8	1					
S5	W.O.H.	13"	6"	Grey/red SILT and coarse SAND, wet, no odor	0.0	
	W.O.H.			Brown/grey/pink clayey SILT, trace f. SAND, orange sandy partings, moist	0.0	
10	13					
	11					
S6	9	20"		Brown/grey/pink clayey SILT, trace f. SAND, moist	0.0	
	12				0.0	
	16					
12	17					
S7	12	24"	8"	Brown/grey/red SILT and coarse grey SAND, wet, trace coarse subangular gravel	0.0	
	20			Brown/grey/red SILT and coarse grey SAND, moist, trace coarse subangular gravel	0.0	
	19					
14	26					
S8	10	14"		Brown/grey/red SILT and coarse grey SAND, moist, trace coarse subangular gravel	0.0	
	11				0.0	
	15					
16	21					
S9				Bottom of Exploration - 16'		
18						
S10						
20						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				16-Ft.	-6'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations
- | | | |
|--------------------|----------------|--------------------------------|
| and = 35 to 50 % | c = coarse | BGS = Below the Ground Surface |
| some = 20 to 35% | m = medium | NA = Not Applicable |
| little = 10 to 20% | f = fine | |
| trace = 1 to 10% | vf = very fine | |

BORING: B12-02

LABELLA

Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-03

SHEET 1 OF 2

JOB: 213099

CHKD BY:

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/6/2012	END DATE: 12/6/12

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Brown SILT and brown coarse SAND, some fine subangular gravel, moist (parking lot)	0.0	
S1	5 9 9 7	15"	11"	Crushed black cinders, moist	0.0	
S2	7 10 9 6	17"	3" 5" 8" 10"	Crushed black cinders and brown/orange clayey SILT, moist Blue/grey slag, sulfur odor Brown/orange clayey SILT, some black cinders, moist, no odor Crushed blue/grey slag, sulfur odor	0.0 0.0 0.0 0.0	
S3	5 6 8 6	16"		Brwn/orange SILT & f. SAND, little f. subrnd gravel, moist, slight sulfur odor	0.0	VOC/CI sample
S4	4 3 5 5	24"	15"	Brown clayey SILT, some fine SAND, little fine subround gravel, trace orange staining, trace crushed wood, trace coarse SAND, no odor	0.0	
S5	4 4 3 4	24"		Brown clayey SILT, little fine SAND, trace fine subrounded gravel, no odor, trace coarse SAND, moist	0.0	
S6	2 3 4 4	24"		Brown silty CLAY, moist	0.0	
S7	3 7 10 10	24"		Brown silty CLAY, trace fine subangular gravel, moist, moisture increasing with depth, no odor	0.0 0.0	
S8	5 7 6 8	24"		Brown silty CLAY, trace fine subangular gravel, moist, moisture increasing with depth, no odor, trace orange staining	0.0 0.0	
S9	3 3 2 3	24"	12"	Brown silty CLAY, trace fine subangular gravel, moist, silty partings	0.0 0.0	
S10	2 2 2 2	24"		Brown silty CLAY, trace fine subangular gravel, wet	0.0	
				Grey/brown CLAY, no odor, soft, wet	0.0	
				Grey/brown CLAY, no odor, soft, wet	0.0 0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				35-Ft.	~35'	3" spoon from 4'-6'; 2" spoon for all other intervals

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations
- | | | |
|--------------------|----------------|--------------------------------|
| and = 35 to 50 % | c = coarse | BGS = Below the Ground Surface |
| some = 20 to 35% | m = medium | NA = Not Applicable |
| little = 10 to 20% | f = fine | |
| trace = 1 to 10% | vf = very fine | |

BORING: B12-03



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-03

SHEET 2 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/6/2012	END DATE: 12/6/12

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
20	W.O.H.	24"	15"	Grey/brown CLAY, no odor, soft, wet	0.0	
S11	1					
	3					
22	4			----- Grey/brown CLAY, little coarse SAND, trace fine subrounded gravel, no odor, soft, wet	0.0	
S12	3	24"		Grey/brown CLAY, some coarse SAND, little fine subrounded gravel, wet	0.0	
	5				0.0	
	6					
24	4					
S13	W.O.H.	10"		Grey/brown CLAY, some coarse SAND, little fine subrounded gravel, wet, trace red staining	0.0	
	1				0.0	
26	2					
S14	3	24"		Brown/grey coarse SAND, some SILT, little coarse subrounded gravel, wet, trace fine subrounded gravel (till)	0.0	
	11				0.0	
	12					
28	12					
S15	9	6"		Brown/grey coarse SAND, some SILT, little coarse subrounded gravel, wet, trace fine subrounded gravel, trace red staining (till)	0.0	
	14				0.0	
	14					
30	16					
S16	8	24"		Brown/grey coarse SAND, some SILT, little coarse subrounded gravel, wet, trace fine subrounded gravel, trace red staining (till)	0.0	
	11				0.0	
	12					
32	10					
S17	8	19"		Brown/grey coarse SAND, some SILT, little coarse subrounded gravel, wet, trace fine subrounded gravel, trace red staining (till)	0.0	
	11				0.0	
	11					
34	16					
S18	25	6"		Brown/grey coarse SAND, some SILT, little coarse subrounded gravel, wet, trace fine subrounded gravel, trace red staining (till)	0.0	
	17				0.0	
35	BOE					
Bottom of Exploration - 35'						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				-Ft.		

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations
- | | | |
|--------------------|----------------|--------------------------------|
| and = 35 to 50 % | c = coarse | BGS = Below the Ground Surface |
| some = 20 to 35% | m = medium | NA = Not Applicable |
| little = 10 to 20% | f = fine | |
| trace = 1 to 10% | vf = very fine | |

BORING: B12-03



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-04

SHEET 1 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/5/2012	END DATE: 12/6/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Crushed asphalt and gravel (parking lot)	0.0	
S1	23 13 11 12	15"	6"	Brown/grey SILT, little fine subangular gravel, trace coal/cinders, dry, no odor	0.0 0.0	
S2	10 9 10 4	24"	15"	Brown/tan SILT and fine SAND, trace red staining, moist Brown/tan silty CLAY, moist, silty partings	0.0 0.0	
S3	8 10 11 6	17"		Brown/tan silty CLAY, moist, orange silty partings, little fine brown/orange SAND	0.0 0.0	VOC/CI sample
S4	4 5 5 8	20"		Brown/tan silty CLAY, moist, orange silty partings, little fine brown/orange SAND, soft	0.0 0.0	
S5	1 2 10 10	24"	16"	Brown/tan silty CLAY, moist/wet, orange silty partings, little f.brown/orange SAND, very soft Brown sandy SILT and coarse SAND, trace fine subrounded gravel, moist/dry	0.0 0.0	
S6	5 14 32 12	20"	14"	Brown/grey clayey SILT, some coarse brown SAND, wet, orange silty partings Brown coarse SAND and sandy SILT, moist, little fine angular gravel, trace red staining	0.0 0.0	
S7	26 23 38 14	22"		Brown fine and coarse SANDs, wet/moist, drying with depth, little fine subrounded gravel, little coarse subangular gravel (till)	0.0 0.0	Finished for day (12/5/12)
S8	12 19 50/3	12"		Brown fine and coarse SANDs, little brown SILT, wet, little fine subrounded gravel, little coarse subangular gravel (till)	0.0 0.0	Resume boring (12/6/12)
S9	47 50/3	13"		Brown fine and coarse SANDs, little brown SILT, wet, little fine subrounded gravel, little coarse subangular gravel, very hard (till)	0.0 0.0	
S10	42 49 50/3	14"		Brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, trace cobble, very hard (till)	0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				30-Ft.	~10'	3" spoon from 4'-6"; 2" spoon for all other intervals

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations
- | | | |
|--------------------|----------------|--------------------------------|
| and = 35 to 50 % | c = coarse | BGS = Below the Ground Surface |
| some = 20 to 35% | m = medium | NA = Not Applicable |
| little = 10 to 20% | f = fine | |
| trace = 1 to 10% | vf = very fine | |

BORING: B12-04



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-04

SHEET 2 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle
DRILLER: Steve Gelser
LABELLA REPRESENTATIVE: JMG

BORING LOCATION:
GROUND SURFACE ELEVATION:
START DATE: 12/5/2012 END DATE: 12/6/2012

TIME: TO
DATUM:

TYPE OF DRILL RIG: Truck Mounted Rotary Drill
AUGER SIZE AND TYPE: 4.5"
OVERBURDEN SAMPLING METHOD: Split Spoon

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~1.8"
OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
20 S11 22	58 76 71 90	21"		Grey/brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, trace cobble, very hard (till)	0.0 0.0	
S12 24	22 54 100/5	16"		Brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, trace cobble, very hard (till)	0.0 0.0	
S13 26	35 100/4	8"		Brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, trace cobble, very hard (till)	0.0 0.0	
S14 28	58 100/2	8"		Brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, very hard (till)	0.0 0.0	
S15 30	52 100/2	9"		Brown fine and coarse SANDs, little brown SILT, moist, little fine subrounded gravel, little coarse subangular gravel, very hard (till)	0.0 0.0	
32				Bottom of Exploration - 30'		
34						
36						
38						
40						
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		30-Ft.	~10'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: B12-04



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-05
SHEET 1 OF 1
JOB: 213099
CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle BORING LOCATION: TIME: TO
DRILLER: Steve Gelsler/Neal Short GROUND SURFACE ELEVATION: DATUM:
LABELLA REPRESENTATIVE: JMG START DATE: 12/10/2012 END DATE:

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Dark brown SILT, little fine SAND, trace fine subangular gravel, moist, trace orange staining	0.0	
S1	2 3 4 5	18"	10"	Brown SILT, trace fine SAND, little fine subangular gravel, moist	0.0	
2				Brown SILT, trace fine SAND, little fine subangular gravel, moist, firm	0.0	
S2	7 12 15 20	17"	7"	Brown/dark red coarse SAND, little SILT, trace crushed black/orange/blue slag, slight sulfur odor, loose	0.0	
S3	7 28 28 6	18"	4" 7" 13"	Brown/dark red coarse SAND, little SILT, trace crushed black/orange/blue slag, slight sulfur odor, loose Crushed red slag, no odor, dry Black/red crushed slag, no odor, dry White/light blue crushed slag, sulfur odor, dry	0.0 0.0 10.5/12.3 1.8	S3A VOC/CI sample S3B
S4	12 15 27 8	10"		Crushed (fine to coarse) light blue/grey slag, wet, trace orange and black coloring, sulfur odor	0.0 0.0 0.1	
S5	5 7 9 10	6"		Crushed (fine to coarse) light blue/grey slag, wet, trace orange and black coloring, sulfur odor, trace peat	0.0 0.0	
S6	6 5 6 12	7"		Crushed (fine to coarse) light blue/grey slag, wet, trace black/dark blue coloring, sulfur odor	0.0 0.2	
S7	4 7 9 14	14"	2"	Crushed (f. to c.) light blue/grey slag, wet, trace black/dark blue color, sulfur odor Dark brown/dark gray coarse silica SAND, little fine subangular gravel, trace coarse subangular gravel, wet, trace crushed shell fragments, loose	0.0 0.0 0.1	
S8	5 7 6 16	18"		Dark brown/dark gray coarse silica SAND, little fine subangular gravel, trace coarse subangular gravel, wet, trace crushed shell fragments, loose, trace seaweed	0.0 0.0	
S9	1 2 2 18	19"	9"	Dark brown/dark gray coarse silica SAND, little fine subangular gravel, trace coarse subangular gravel, wet, trace crushed shell fragments, loose, trace seaweed Alternating layers of fine brown/grey SAND and peat, wet	0.0 0.0 0.0	
S10	1 1 1 20	14"		Brown/grey silty CLAY, some peat, wet/moist, trace fine SAND	0.0 0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				20-Ft.	-6'	3" spoon from 4'-6'; 2" spoon for all other intervals

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations
 and = 35 to 50 %
 some = 20 to 35%
 little = 10 to 20%
 trace = 1 to 10%
 c = coarse
 m = medium
 f = fine
 vf = very fine
 BGS = Below the Ground Surface
 NA = Not Applicable

BORING: B12-05



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: B12-06

SHEET 1 OF 1

JOB: 213099

CHKD BY:

CONTRACTOR: Nothnagle BORING LOCATION: TIME: TO
 DRILLER: Steve Gelser GROUND SURFACE ELEVATION: DATUM:
 LABELLA REPRESENTATIVE: JMG START DATE: 12/7/2012 END DATE: 12/7/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
 AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
 OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Crushed asphalt (parking lot)	0.0	
S1	76 20 16 15	17"	8"	Brown/grey coarse SAND, some SILT, some coarse to fine subangular gravel (parking subbase), dry	0.0	S1 sample
S2	18 16 17 12	12"	2"	Brown/grey coarse SAND, some SILT, some coarse to fine subangular gravel (parking subbase), moist Light blue/grey slag and crushed slag, slight sulfur odor, loose, dry, trace cinders	0.1 0.0 0.0 0.7 0.0	S2 sample
S3	11 11 20 19	7"		Light blue/grey slag and crushed slag, slight sulfur odor, loose, dry, trace cinders, trace orange staining	0.0 0.0	VOC/CL Sample
S4	8 5 5 4	6"		Light blue/gray slag and crushed slag, some coarse dark brown/grey SAND, wet, trace crushed shells	0.0 0.0	
S5	3 2 2 1	6"		Brown very coarse silica SAND, wet, no odor, trace crushed slag	0.0 0.0	
S6	2 3 5 10	11"		Brown very coarse silica SAND, trace fine subround gravel, wet, slight sulfur odor, trace crushed slag	0.0 0.0	
S7	13 15 17 14	21"	11"	Brown very coarse silica SAND, trace fine subround gravel, wet, very slight sulfur odor, trace crushed slag Coarse brown/grey SAND and coarse to fine subangular and subrounded gravel, some brown SILT, wet, no odor	0.0 0.0	
S8	9 4 4 16	16"		Brown fine SAND, little SILT, wet, no odor, little coarse SAND	0.0 0.0	
S9	4 3 4 18	24"	20"	Coarse brown/grey SAND and coarse to fine subangular and subrounded gravel, wet, no odor Dark brown/black SILT and grey clayey SILT, little crushed wood, little coarse SAND	0.0 0.0	
S10	2 3 3 20	9"		Grey silty CLAY, moist/wet, no odor, trace black organic material (peat) at partings	0.0 0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				20-Ft.		3" spoon from 4'-6"; 2" spoon for all other intervals

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: B12-06



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: OB-01

SHEET 1 OF 1

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser/Neal Short	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/11/2012	END DATE: 12/11/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Crushed asphalt	0.0	
S1	60	21"	6"	-----	0.0	
	60			Brown coarse SAND and fine to coarse subangular gravel (parking base)		
	40			-----		
	40		11"	Brown/red coarse SAND and black/orange crushed slag, trace blue/grey crushed slag, no odor, moist/dry	0.0	
2				Augered to 5'		
5				Brown/red coarse SAND and black/orange crushed slag, trace blue/grey crushed slag, no odor, moist/dry	0.0	
S2	7	10"	8"	-----	0.0	
	4			Crushed blue/grey slag, moist, sulfur odor		
	5			-----		
	7					
7	45			Augered to 10'		
10				Crushed fine to coarse blue/grey slag, trace very fine slag, wet, sulfur odor	0.0	
S3	2	8"		-----	0.1	
	3					
	7			-----		
	8			Augered to 15'		
15				Very fine blue/grey crushed slag, wet, sulfur odor	0.4	
S4	1	6"	3"	-----	0.6	
	3			Crushed wood/peat, organic odor		
	2			-----		
	2					
17	2			Augered to 20'		
20				Peat, some brown clayey SILT, trace fine SAND, trace crushed slag (from above), wet	0.0	
S5	5	4"		-----	0.0	
	3					
	2			-----		
	4					Auger to 23'
22				Brown clayey SILT, little peat, trace fine SAND, moist/wet	0.0	
S6	2	7"		-----	0.0	
	2					
	2			-----		
	3					
25						

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				20-Ft.	~4'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: OB-01



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: OB-02

SHEET 1 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle	BORING LOCATION:	TIME: TO
DRILLER: Steve Gelser	GROUND SURFACE ELEVATION:	DATUM:
LABELLA REPRESENTATIVE: JMG	START DATE: 12/10/2012	END DATE: 12/10/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill	DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5"	INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon	OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0				Crushed asphalt	0.0	
S1	50 25 15 15	12"	8"	----- Brown/grey coarse SAND and fine to coarse subangular gravel, moist/dry, no odor	0.0	Sample S1
S2	11 14 7 5	19"	12"	Red/brown coarse SAND and fine to coarse subangular gravel, moist/dry, no odor ----- Brown coarse SAND, some fine blue/grey/orange crushed slag, moist/wet	0.0 0.0	Sample S2
S3	50/5	3"		Crushed light brown/grey slag, some brown coarse SAND, moist/wet, sulfur odor	0.0 0.0	
S4	10 56 28 30	12"		White/light blue slag, some black and orange coloring, wet, sulfur odor	0.0 0.0	
S5	3 9 20 7	14"		White/light blue slag, some black and orange coloring, wet, strong sulfur odor	0.4 5.1 0.9	
S6	6 6 3 7	4"		White/light blue slag, some black and orange coloring, wet, sulfur odor, trace very fine crushed slag	0.1 0.0	
S7	3 5 12 20	11"		White/light blue slag, some black and orange coloring, wet, sulfur odor, trace very fine crushed slag	0.0 0.0	
S8	21 6 3 3	5"		White/light blue slag, some black and orange coloring, wet, strong sulfur odor, trace very fine crushed slag	0.7 3.1	
S9	1 2 2 2	13"	7"	Brown/grey clayey SILT, trace crushed slag, sulfur odor, wet/moist ----- Peat, some brown/grey clayey SILT, moist/wet, no odor	0.0 0.0	
S10	1 1 1 20	12"		Peat, some brown/grey clayey SILT, moist/wet, no odor	0.0 0.8 0.0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				25-Ft.	~4'	

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: OB-02



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: OB-02
SHEET 2 OF 2
JOB: 213099
CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle BORING LOCATION: TIME: TO
DRILLER: Steve Gelser GROUND SURFACE ELEVATION: DATUM:
LABELLA REPRESENTATIVE: JMG START DATE: 12/10/2012 END DATE: 12/10/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
20	1	21"		Brown/grey clayey SILT, trace peat, trace fine SAND, wet, no odor	0.0	
S11	1				0.0	
22	2				0.0	
S12	W.O.R. W.O.H. 1	0.5"		Brown/grey clayey SILT, wet	0.0	
24	1				0.0	
S13	W.O.H. 1 BOE	10"		Brown/grey clayey SILT, wet	0.0	
25					0.0	
				Bottom of Exploration - 25'		

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		25-Ft.	~4'	

GENERAL NOTES
 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: OB-02



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: SB-PW-01

SHEET 1 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle BORING LOCATION: Proposed drawdown well location TIME: TO
 DRILLER: Steve Gelser/Neal Short GROUND SURFACE ELEVATION: DATUM:
 LABELLA REPRESENTATIVE: JMG START DATE: 12/10/2012 END DATE: 12/10/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
 AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
 OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
0					0.0	
S1	72 37 19 13	17"	12"	Crushed asphalt and crushed gravel, some fine SAND, layer of black poly sheeting at 12" (parking subbase)	0.0	
2				Crushed light blue/grey slag and dark brown SILT and coarse SAND, moist slight sulfur odor	0.0	
S2	11 9 9 6	5"		Crushed light blue/grey slag and dark brown SILT and coarse SAND, little brown/tan clayey SILT, moist slight sulfur odor	0.0 0.0	
S3	5 3 4 6	13"	7"	Light brown/tan coarse SAND, some very fine crushed slag, very slight odor, wet	0.0	
				Blue/grey crushed slag, little black/orange coloring, wet/moist	0.1	
S4	5 6 7 8	12"	8"	Blue/grey crushed slag, some light brown coarse SAND, little black/orange coloring, wet/moist	0.0 0.0	
				Blue/grey crushed slag, moist/wet, sulfur odor	0.1	
S5	3 7 11 10	5"		Blue/grey crushed slag, little very fine slag (same size as coarse sand would be) wet, sulfur odor	0.1	
S6	3 4 7 12	9"		Blue/grey crushed slag, little very fine slag, wet, sulfur odor, trace yellow staining	0.1 0.1	
S7	13 14 6 14	13"		Blue/grey crushed slag, little very fine to cobble-sized slag, wet, sulfur odor	0.0 0.1	
				Blue/grey crushed slag, little very fine to cobble-sized slag, wet, sulfur odor	0.0	
S8	4 2 2 16	16"	3" 5"	Brown/grey silty CLAY, trace fine SAND, moist	1.2	S8A
				Peat, little fine brown/grey SAND, moist	2.0 4.5 5.8	S8B S8C
S9	2 2 2 18	14"		Peat, little fine brown/grey SAND, moist, little dark brown clayey SILT, trace crushed slag (from above, not representative of this depth)	0.0 0.1	
S10	1 2 1 20	20'	9"	Peat, little fine brown/grey SAND, moist, little dark brown clayey SILT, trace crushed slag (from above, not representative of this depth)	0.1	
				Brown silty CLAY, trace SILT, moist	0	

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME				
				30-Ft.		3" spoon from 4'-6"; 2" spoon for all other intervals

GENERAL NOTES

- STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER
- 3) Abbreviations and = 35 to 50 % c = coarse
 some = 20 to 35% m = medium BGS = Below the Ground Surface
 little = 10 to 20% f = fine NA = Not Applicable
 trace = 1 to 10% vf = very fine

BORING: SB-PW-01



TEST BORING LOG

Port of Rochester
Geotechnical Investigation

BORING: SB-PW-01

SHEET 2 OF 2

JOB: 213099

CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

CONTRACTOR: Nothnagle BORING LOCATION: Proposed drawdown well location TIME: TO
 DRILLER: Steve Gelser/Neal Short GROUND SURFACE ELEVATION: DATUM:
 LABELLA REPRESENTATIVE: JMG START DATE: 12/10/2012 END DATE: 12/10/2012

TYPE OF DRILL RIG: Truck Mounted Rotary Drill DRIVE SAMPLER TYPE:
 AUGER SIZE AND TYPE: 4.5" INSIDE DIAMETER: ~1.8"
 OVERBURDEN SAMPLING METHOD: Split Spoon OTHER:

DEPTH	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	Remarks
	Blow Count	SAMPLE RECOVERY	STRATA CHANGE			
20	1	13"		Brown clayey SILT, trace fine SAND, very soft, wet, trace crushed slag (from above)	0.0	
S11	1				0.0	
22	2					
S12	W.O.H.	24"		Brown/grey silty CLAY, wet/moist, soft	0.0	
24	1				0.0	
S13	W.O.H.	24"		Brown/grey silty CLAY, wet, soft, trace peat	0.0	
26	1				0.0	
	2					
S14	W.O.R.	24"		Brown/grey silty CLAY, wet, soft, trace peat	0.0	
28	1				0.0	
S15	W.O.H.	24"		Brown/grey silty CLAY, wet, soft	0.0	
	2				0.0	
30	2					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NOTES:
DATE	TIME	ELAPSED TIME		30-Ft.		

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