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**ANNUAL GROUNDWATER MONITORING REPORT
CLOSURE YEAR 21 (2017)**

**UNION ROAD SITE
TOWN OF CHEEKTOWAGA
ERIE COUNTY, NEW YORK
(SITE REGISTRY NO. 9-15-128)**

Prepared for:

**AMERICAN PREMIER UNDERWRITERS, INC.
(FORMERLY THE PENN CENTRAL CORPORATION)
ONE EAST FOURTH STREET
CINCINNATI, OHIO 45202**

Prepared by:

**UNICORN MANAGEMENT CONSULTANTS, LLC
52 FEDERAL ROAD, SUITE 2C
DANBURY, CT 06810**

January 10, 2018



Document Authorization Form

**Annual Groundwater Monitoring Report
Closure Year 21 (2017)**

**Union Road Site
Town of Cheektowaga
Erie County, New York
(Site Registry No. 9-15-128)**

Prepared for:

**American Premier Underwriters, Inc.
(Formerly The Penn Central Corporation)
One East Fourth Street
Cincinnati, Ohio 45202**

Prepared by:

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52 FEDERAL ROAD, SUITE 2C
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January 10, 2018

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Date

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1. INTRODUCTION

This Groundwater Monitoring Report has been prepared by Unicorn Management Consultants, LLC (UMC) on behalf of American Premier Underwriters, Inc. The purpose of this document is to demonstrate compliance with Section 12.4.1 of the Union Road Site Remedial Design Report (Design Report), approved by the NYSDEC in May, 1995. Section 12.4.1 of the Design Report discusses the Groundwater Monitoring Plan (GMP). The GMP consists of these elements:

- Installation of groundwater monitoring wells inside and outside the slurry wall around the landfill closure;
- Collection and analyses of groundwater samples; and
- Determination of groundwater elevations.

Please note that pursuant to a letter dated October 18, 2001, from Blank Rome Comisky and McCauley, LLP (APU's legal counsel), effective October 19, 2001, APU designated UMC as their environmental consultants.

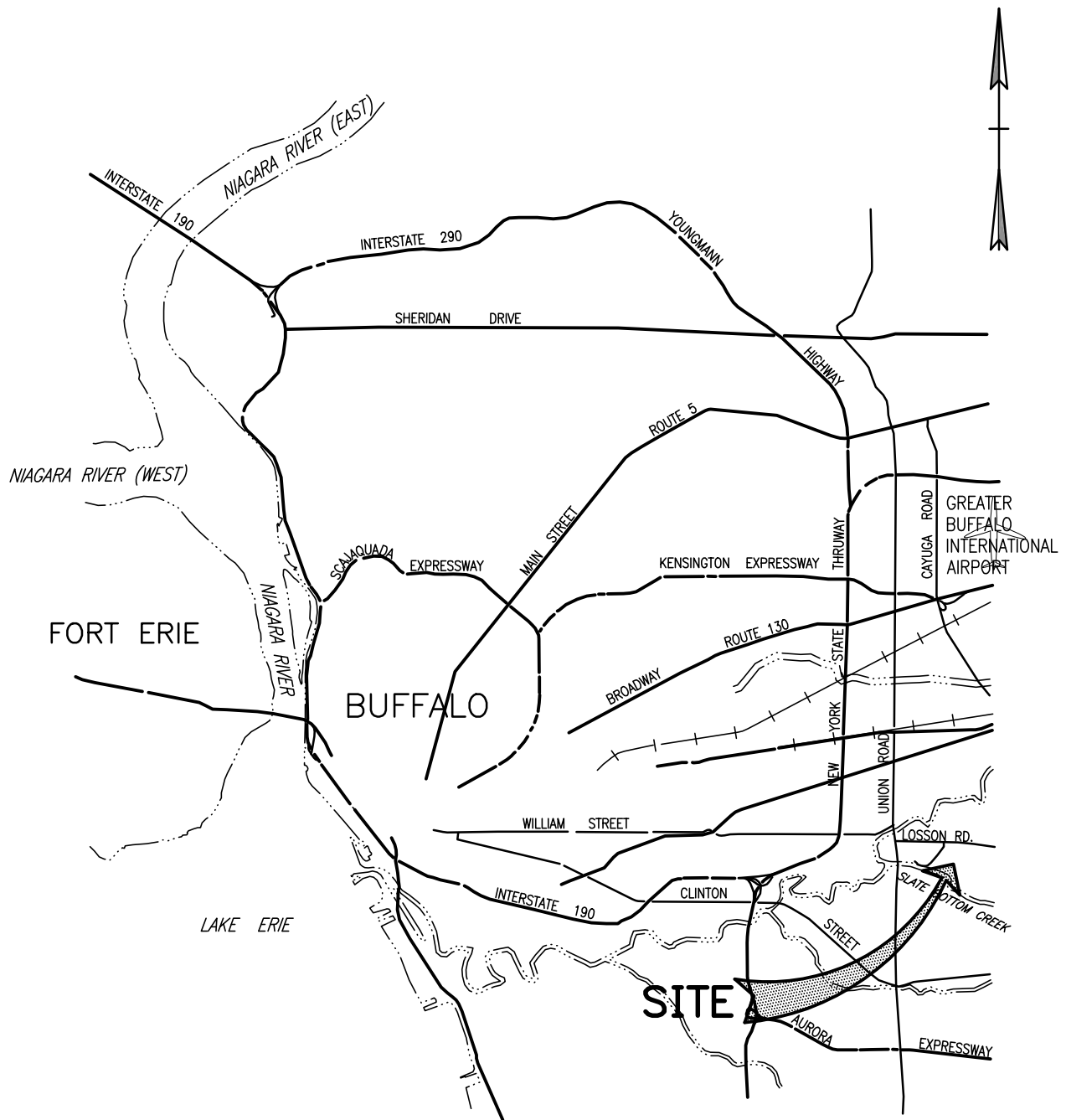
The Union Road site ("the Site") is a Class 4 Site as defined by the New York State Department of Environmental Conservation (NYSDEC). The Site registry number is 915128. The Site is located at 333 Losson Road in Cheektowaga, New York (see Figure 1-1). A Record of Decision (ROD) for the Site was signed on March 9, 1992. Order on Consent Index No. B9-0148-92-03 was signed by The Penn Central Corporation (currently, American Premier Underwriters, Inc.) and the New York State Department of Environmental Conservation (NYSDEC); the effective date of the Order is April 12, 1994. Appendix "B" of the Order is the Final Remedial Action Work Plan (the "Work Plan"), dated June 18, 1993.

As required in Section 4.2 of the Work Plan, the design documents, including the Union Road Site Remedial Design Report, were submitted in May 1995 to the NYSDEC and were subsequently approved. After approval, work commenced and the landfill closure was completed in December 1996. Figure 1-2 illustrates a plan view of the Site closure.

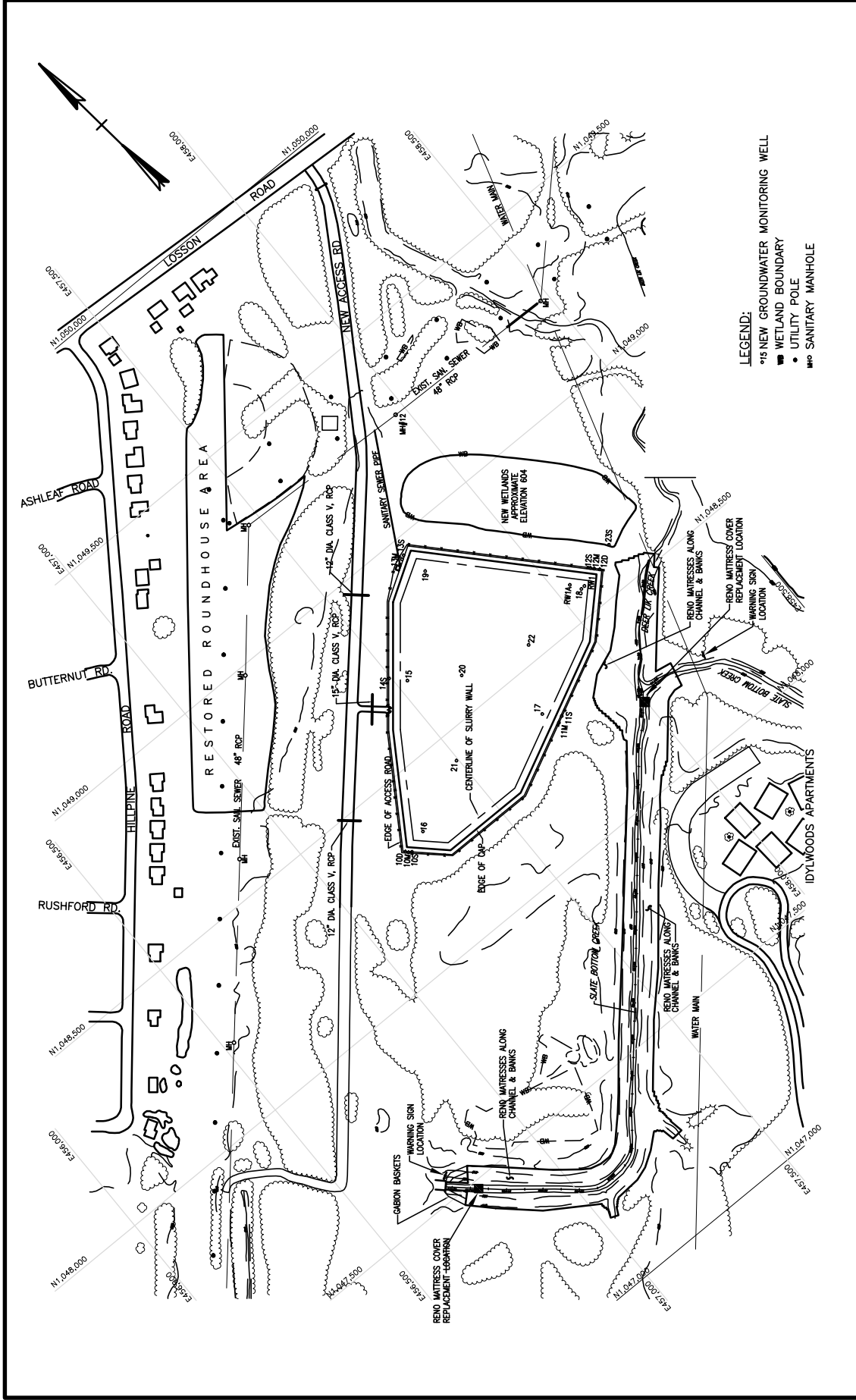
The GMP, Inspection and Operation and Maintenance activities for the Site went into effect following the landfill closure. This report presents and summarizes the groundwater monitoring data for the Annual Monitoring of Closure Year 21 (2017). This is the 25th sampling event since the landfill closure.

The purpose of GMP is as follows:

- Monitor the groundwater gradient of the three hydrogeologic units in and around the closure area; and
- Evaluate the groundwater quality to assess the effectiveness of the remedial action performed in accordance with 1995 Design Report.



REVISION NO.		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT #
NO.	DATE				2011-200
		DRAWING	LOCATION MAP		FILENAME: UNION_RD SCALE: 1" ~ 2mi DATE: 1/16/02 BY: AD CK: FIGURE # 1-1



REVISIONS		PROJECT	DRAWING
NO.	DATE		

PROJECT # 2011-200

FILENAME: 2045100B

SCALE: 1" = 400'

DATE: 8/23/06

BY: AD

OK:

Unicorn Management Consultants, LLC

52 FEDERAL ROAD DANBURY, CT (203) 205-9000

UNION ROAD SITE

TOWN OF CHEEKTOWAGA, NEW YORK

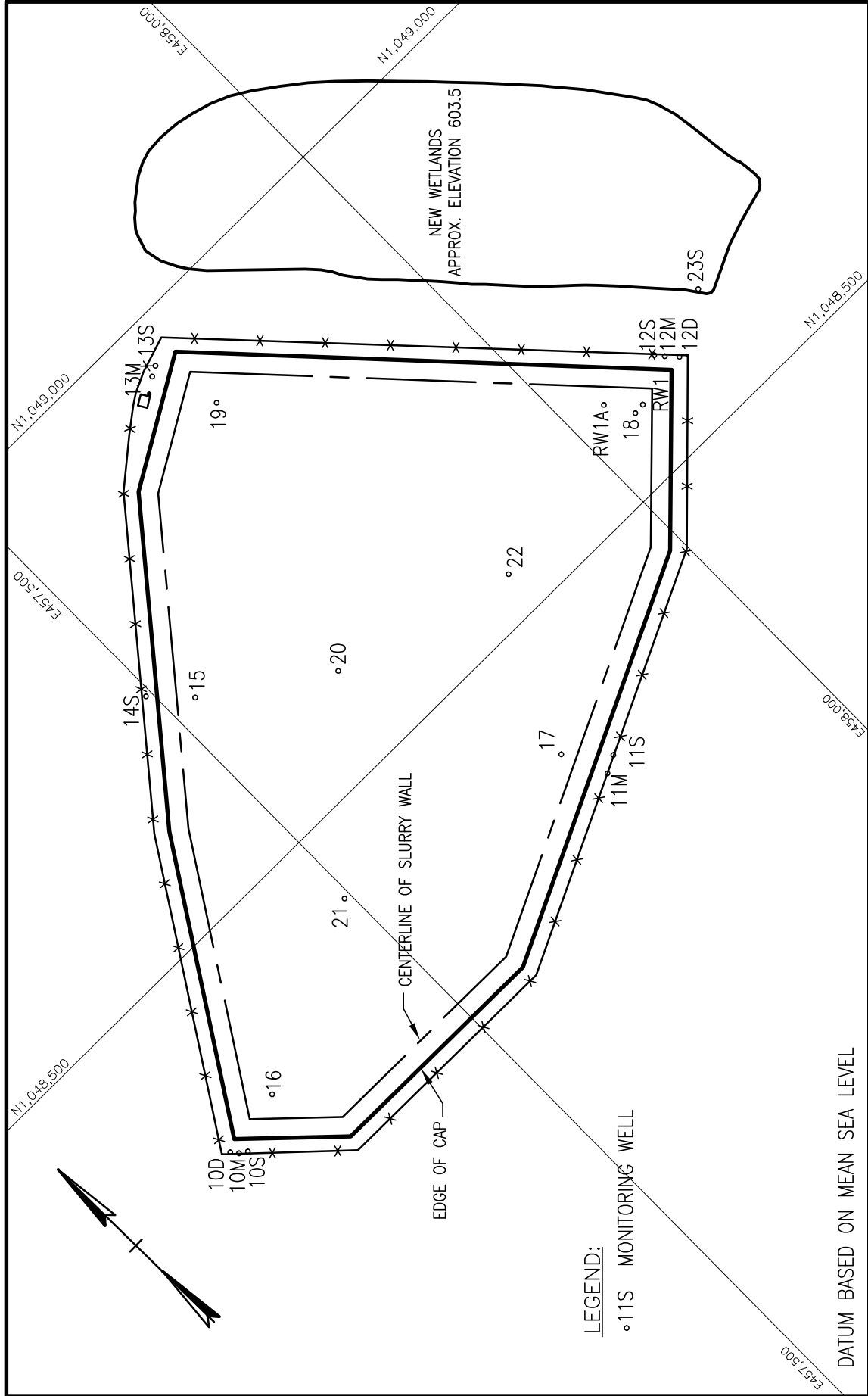
SITE LOCATION

2. WELL INSTALLATION

As proposed in the GMP, five well clusters were installed along the outside perimeter of the slurry wall. These exterior wells are identified as MW-10S-M-D, MW-11S-M, MW-12S-M-D, MW-13S-M, and MW-14S. Adjacent to these wells, along the inside perimeter of the slurry wall, five shallow wells identified as MW-15, MW-16, MW-17, MW-18, and MW-19 were installed.

Three additional shallow wells (not originally proposed) were also installed. These wells (MW-20, MW-21, and MW-22) were installed in the center of the landfill to monitor the elevation of groundwater inside the landfill closure. Proposed well MW-20S adjacent to the outfall of the new wetland was installed; however, the identification of this well was changed from MW-20S to MW-23S. As discussed in the Groundwater Monitoring Report for the Second Quarter 1997, the original Monitoring Well 14S (MW-14S) was decommissioned and the replacement was reinstalled nine (9) feet southwest (along the fence line). The MW-14S replacement was installed, surveyed and developed on August 19, 1997. Well designations and locations are shown on Figure 2-1.

Installation of monitoring wells proceeded according to Section 02170 of the Technical Specifications. Installation of the interior wells occurred from February 19-23, 1996. Installation of the exterior wells took place from December 10, 1996 through January 6, 1997 and August 19, 1997. Copies of the Boring Logs and Well Construction Drawings are included as Appendix A.



REVISIONS		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	PROJECT # 2011-200
NO.	DATE			
DRAWING		GROUNDWATER MONITORING WELL LOCATIONS		
		Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000		
		FILENAME: 2045100B SCALE: 1" = 150' DATE: 1/15/02 BY: AD CK:		
		FIGURE # 2-1		

3. GROUNDWATER SAMPLING AND ANALYSES

The purpose of groundwater sampling and analyses is to assess the effectiveness of the remedial action by evaluating the groundwater quality.

According to the GMP, groundwater samples will be collected from the outside perimeter monitoring wells by the following schedule:

- Quarterly the first year (1997);
- Semi-annually the second year (1998); and
- Annually (during the dry season) thereafter.

The parameters and applicable methods for the analyses are as follows:

- Total petroleum hydrocarbons (TPH) by EPA Method 1664A;
- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270; and
- Soluble metals (lead and arsenic) by EPA Method 6010B, respectively.

The sampling frequency, analytical parameters, and/or sampling of specific wells will be modified based on the results of previous sampling events (since the landfill closure) and with written approval from the NYSDEC.

To evaluate the immediate effects of remedial activities on the groundwater around the landfill closure, the results of this sampling event are compared to results gathered from previous investigation reports performed by Dvirka and Bartilucci prior to the landfill closure. The data from the reports dated June, 1991 and August, 1991 are summarized in Table 3-1. Comparison between the averages prior to closure with post closure in the shallow wells shows significant decreases in all of the contaminants analyzed. To determine the continued effectiveness of the containment system, future sampling will be compared to the pre-closure concentrations.

Groundwater sampling for the annual monitoring event of 2017 was conducted on September 6, 2017. Table 3-2 summarizes the water depth measurements and well purging operations completed on the wells along the outside perimeter of the slurry wall during the annual sampling event. Analysis was performed by ALS Group USA Corp. dba ALS Environmental (Formerly Columbia Analytical Services, Inc.) of Rochester, New York. Tables 3-3 through 3-8 present the analytical results from this sampling event. An electronic copy of the analytical data report is included in Appendix B.

No TPH, lead, arsenic, VOCs, or SVOCs were detected in any of the monitoring wells during this annual sampling event.

TABLE 3-1
UNION ROAD GROUNDWATER MONITORING REPORT
CLOSURE YEAR 21 (2017)



PRE-CONSTRUCTION SAMPLING OF SHALLOW WELLS
(JUNE - AUGUST, 1991)

(concentrations in ug/L)

	MW-4S	MW-4S	MW-5S	MW-6S	MW-6S	
ANALYTE	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	AVERAGE
SVOC's (Base Neutrals)	17	16	120	290	100	109
Total VOC's	ND	5.9	ND	42	3	10
TPH	4,400	1,800	2,200	5,800	ND	2,840
Soluble Arsenic	34.8	35.5	14.7	27.1	5.7	24
Soluble Lead	10,100	8,090	4,450	3,560	367	5,313

ND- analyte not detected

Prepared by: MP
 Date:
 Checked by:
 Date:

**TABLE 3-2
 UNION ROAD
 GROUNDWATER MONITORING REPORT**



**September 6, 2017
 WELL PURGING SUMMARY**

Well Number	Riser Elev. (Feet) ¹	Original Bottom Elev. (Feet)	Depth to Water (Feet)	Water Elev. (Feet)	Water Height in Well (Feet)	Water Volume in Well (Gallons)	Water Removed from Well (Gallons)	Notes
10S	623.09	599.9	9.60	613.49	13.59	2.2	6.70	
10M	622.50	589.6	11.46	611.04	21.44	3.4	10.40	
10D	622.02	574.1	15.53	606.49	32.39	5.2	7.00	
11S	622.74	597.1	14.86	607.88	10.78	1.7	5.30	
11M	622.86	578.4	20.21	602.65	24.25	3.9	10.40	
12S	622.62	595.8	19.88	602.74	6.94	1.1	2.00	
12M	622.97	578.8	21.41	601.56	22.76	3.6	10.80	
12D	621.18	557.8	18.38	602.80	45.00	7.2	21.70	
13S	622.96	599.1	12.53	610.43	11.33	1.8	5.50	
13M	621.66	585.8	12.47	609.19	23.39	3.7	7.00	
14S ²	621.61	602.1	10.93	610.68	8.58	1.4	4.00	

¹ Elevations were surveyed by Douglas C. Meyers P.L.S., P.C. on March 17, 1997

² MW-14S was reinstalled, developed and resurveyed on August 19, 1997.

³ All Elevations are referenced to Mean Sea Level

⁴ All wells are two 2-inches in diameter

⁵ Well development was performed on 1/16/1997

Prepared by: MP
Date: 9/28/17
Checked by: MA
Date: 1/8/18

TABLE 3-3
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



SHALLOW WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)					MRL
	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution	1.00	1.00	1.00	1.00	1.00	
acenaphthene	ND	ND	ND	ND	ND	9.4
acenaphthylene	ND	ND	ND	ND	ND	9.4
anthracene	ND	ND	ND	ND	ND	9.4
benzo(a)anthracene	ND	ND	ND	ND	ND	9.4
benzo(a)pyrene	ND	ND	ND	ND	ND	9.4
benzo(b)fluoranthene	ND	ND	ND	ND	ND	9.4
benzo(g,h,i)perylene	ND	ND	ND	ND	ND	9.4
benzo(k)fluoranthene	ND	ND	ND	ND	ND	9.4
benzyl alcohol	ND	ND	ND	ND	ND	9.4
butly benzyl phthalate	ND	ND	ND	ND	ND	9.4
di-n-butylphthalate	ND	ND	ND	ND	ND	9.4
carbazole	ND	ND	ND	ND	ND	9.4
indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	9.4
4-chloroaniline	ND	ND	ND	ND	ND	9.4
bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	9.4
bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	9.4
2-chloronaphthalene	ND	ND	ND	ND	ND	9.4
2-chlorophenol	ND	ND	ND	ND	ND	9.4
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	9.4
chrysene	ND	ND	ND	ND	ND	9.4
dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	9.4
dibenzofuran	ND	ND	ND	ND	ND	9.4
1,2-dichlorobenzene	ND	ND	ND	ND	ND	9.4
1,3-dichlorobenzene	ND	ND	ND	ND	ND	9.4
1,4-dichlorobenzene	ND	ND	ND	ND	ND	9.4
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	9.4
2,4-dichlorophenol	ND	ND	ND	ND	ND	9.4
diethylphthalate	ND	ND	ND	ND	ND	9.4
dimethyl phthalate	ND	ND	ND	ND	ND	9.4
2,4-dimethylphenol	ND	ND	ND	ND	ND	9.4
2,4-dinitrophenol	ND	ND	ND	ND	ND	47
2,4-dinitrotoluene	ND	ND	ND	ND	ND	9.4
2,6-dinitrotoluene	ND	ND	ND	ND	ND	9.4
bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	9.4
fluoranthene	ND	ND	ND	ND	ND	9.4
fluorene	ND	ND	ND	ND	ND	9.4
hexachlorobenzene	ND	ND	ND	ND	ND	9.4
hexachlorobutadiene	ND	ND	ND	ND	ND	9.4
hexachlorocyclopentadiene	ND	ND	ND	ND	ND	9.4
hexachloroethane	ND	ND	ND	ND	ND	9.4
isophorone	ND	ND	ND	ND	ND	9.4
2-methylnaphthalene	ND	ND	ND	ND	ND	9.4
2-methylphenol	ND	ND	ND	ND	ND	9.4
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	47

Prepared by: MP
 Date: 9/28/17
 Checked by: MA
 Date: 1/8/18

TABLE 3-3
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



SHALLOW WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)					MRL
	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution	1.00	1.00	1.00	1.00	1.00	
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	9.4
3+4-methylphenol	ND	ND	ND	ND	ND	9.4
naphthalene	ND	ND	ND	ND	ND	9.4
2-nitroaniline	ND	ND	ND	ND	ND	47
3-nitroaniline	ND	ND	ND	ND	ND	47
4-nitroaniline	ND	ND	ND	ND	ND	47
nitrobenzene	ND	ND	ND	ND	ND	9.4
2-nitrophenol	ND	ND	ND	ND	ND	9.4
4-nitrophenol	ND	ND	ND	ND	ND	47
n-nitrosodimethylamine	ND	ND	ND	ND	ND	9.4
n-nitrosodiphenylamine	ND	ND	ND	ND	ND	9.4
di-n-octyl phthalate	ND	ND	ND	ND	ND	9.4
pentachlorophenol	ND	ND	ND	ND	ND	47
phenanthrene	ND	ND	ND	ND	ND	9.4
phenol	ND	ND	ND	ND	ND	9.4
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	9.4
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	9.4
n-nitroso-di-n-propylamine	ND	ND	ND	ND	ND	9.4
pyrene	ND	ND	ND	ND	ND	9.4
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	9.4
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	9.4
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	9.4
TOTALS	ND	ND	ND	ND	ND	

Average Outside Landfill (MW 10S - 14S)	ND
Average Inside Landfill (Table 3-1)	109

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
Date: 9/28/17
Checked by: MA
Date: 1/8/18

TABLE 3-4
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



SHALLOW WELL VOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)					MRL
	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution	1.00	1.00	1.00	1.00	1.00	
acetone	ND	ND	ND	ND	ND	10
benzene	ND	ND	ND	ND	ND	5.0
bromodichloromethane	ND	ND	ND	ND	ND	5.0
bromoform	ND	ND	ND	ND	ND	5.0
bromomethane	ND	ND	ND	ND	ND	5.0
2-butanone (MEK)	ND	ND	ND	ND	ND	10
carbon disulfide	ND	ND	ND	ND	ND	10
carbon tetrachloride	ND	ND	ND	ND	ND	5.0
chlorobenzene	ND	ND	ND	ND	ND	5.0
chloroethane	ND	ND	ND	ND	ND	5.0
chloroform	ND	ND	ND	ND	ND	5.0
chloromethane	ND	ND	ND	ND	ND	5.0
dibromochloromethane	ND	ND	ND	ND	ND	5.0
1,1-dichloroethane	ND	ND	ND	ND	ND	5.0
1,2-dichloroethane	ND	ND	ND	ND	ND	5.0
1,1-dichloroethene	ND	ND	ND	ND	ND	5.0
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	5.0
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	5.0
1,2-dichloropropane	ND	ND	ND	ND	ND	5.0
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	5.0
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	5.0
ethylbenzene	ND	ND	ND	ND	ND	5.0
2-hexanone	ND	ND	ND	ND	ND	10
methylene chloride	ND	ND	ND	ND	ND	5.0
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	10
styrene	ND	ND	ND	ND	ND	5.0
1,1,2,2-tetrachloroethane	ND	ND	ND	ND	ND	5.0
tetrachloroethene	ND	ND	ND	ND	ND	5.0
toluene	ND	ND	ND	ND	ND	5.0
1,1,1-trichloroethane	ND	ND	ND	ND	ND	5.0
1,1,2-trichloroethane	ND	ND	ND	ND	ND	5.0
trichloroethene	ND	ND	ND	ND	ND	5.0
vinyl chloride	ND	ND	ND	ND	ND	5.0
m+p xylene	ND	ND	ND	ND	ND	5.0
o-xylene	ND	ND	ND	ND	ND	5.0
TOTAL VOC'S	ND	ND	ND	ND	ND	

Average Outside Landfill (MW 10S - 14S)	Average Inside Landfill (Table 3-1)
0	10

TPH	ND	ND	ND	ND	ND	4.7
SOLUBLE ARSENIC	ND	ND	ND	ND	ND	10
SOLUBLE LEAD	ND	ND	ND	ND	ND	50

0.0	2,840
0.0	24
0.0	5,313

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
Date: 9/28/17
Checked by: MA
Date: 1/8/18

TABLE 3-5
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



MEDIUM WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)				MRL
	MW-10M	MW-11M	MW-12M	MW-13M	
Dilution	1.00	1.00	1.00	1.00	
acenaphthene	ND	ND	ND	ND	9.4
acenaphthylene	ND	ND	ND	ND	9.4
anthracene	ND	ND	ND	ND	9.4
benzo(a)anthracene	ND	ND	ND	ND	9.4
benzo(a)pyrene	ND	ND	ND	ND	9.4
benzo(b)fluoranthene	ND	ND	ND	ND	9.4
benzo(g,h,i)perylene	ND	ND	ND	ND	9.4
benzo(k)fluoranthene	ND	ND	ND	ND	9.4
benzyl alcohol	ND	ND	ND	ND	9.4
butly benzyl phthalate	ND	ND	ND	ND	9.4
di-n-butylphthalate	ND	ND	ND	ND	9.4
carbazole	ND	ND	ND	ND	9.4
indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	9.4
4-chloroaniline	ND	ND	ND	ND	9.4
bis(-2-chloroethoxy)methane	ND	ND	ND	ND	9.4
bis(2-chloroethyl)ether	ND	ND	ND	ND	9.4
2-chloronapthalene	ND	ND	ND	ND	9.4
2-chlorophenol	ND	ND	ND	ND	9.4
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	9.4
chrysene	ND	ND	ND	ND	9.4
dibenzo(a,h)anthracene	ND	ND	ND	ND	9.4
dibenzofuran	ND	ND	ND	ND	9.4
1,2-dichlorobenzene	ND	ND	ND	ND	9.4
1,3-dichlorobenzene	ND	ND	ND	ND	9.4
1,4-dichlorobenzene	ND	ND	ND	ND	9.4
3,3'-dichlorobenzidine	ND	ND	ND	ND	9.4
2,4-dichlorophenol	ND	ND	ND	ND	9.4
diethylphthalate	ND	ND	ND	ND	9.4
dimethyl phthalate	ND	ND	ND	ND	9.4
2,4-dimethylphenol	ND	ND	ND	ND	9.4
2,4-dinitrophenol	ND	ND	ND	ND	47
2,4-dinitrotoluene	ND	ND	ND	ND	9.4
2,6-dinitrotoluene	ND	ND	ND	ND	9.4
bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	9.4
fluoranthene	ND	ND	ND	ND	9.4
fluorene	ND	ND	ND	ND	9.4
hexachlorobenzene	ND	ND	ND	ND	9.4
hexachlorobutadiene	ND	ND	ND	ND	9.4
hexachlorocyclopentadiene	ND	ND	ND	ND	9.4
hexachloroethane	ND	ND	ND	ND	9.4
isophorone	ND	ND	ND	ND	9.4
2-methylnapthalene	ND	ND	ND	ND	9.4
2-methylphenol	ND	ND	ND	ND	9.4
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	47

Prepared by: MP
 Date: 9/28/17
 Checked by: MA
 Date: 1/8/18

TABLE 3-5
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



MEDIUM WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)				MRL
	MW-10M	MW-11M	MW-12M	MW-13M	
Dilution	1.00	1.00	1.00	1.00	
4-chloro-3-methylphenol	ND	ND	ND	ND	9.4
3+4-methylphenol	ND	ND	ND	ND	9.4
naphthalene	ND	ND	ND	ND	9.4
2-nitroaniline	ND	ND	ND	ND	47
3-nitroaniline	ND	ND	ND	ND	47
4-nitroaniline	ND	ND	ND	ND	47
nitrobenzene	ND	ND	ND	ND	9.4
2-nitrophenol	ND	ND	ND	ND	9.4
4-nitrophenol	ND	ND	ND	ND	47
n-nitrosodimethylamine	ND	ND	ND	ND	9.4
n-nitrosodiphenylamine	ND	ND	ND	ND	9.4
di-n-octyl phthalate	ND	ND	ND	ND	9.4
pentachlorophenol	ND	ND	ND	ND	47
phenanthrene	ND	ND	ND	ND	9.4
phenol	ND	ND	ND	ND	9.4
4-bromophenyl-phenylether	ND	ND	ND	ND	9.4
4-chlorophenyl-phenylether	ND	ND	ND	ND	9.4
n-nitroso-di-n-propylamine	ND	ND	ND	ND	9.4
pyrene	ND	ND	ND	ND	9.4
1,2,4-trichlorobenzene	ND	ND	ND	ND	9.4
2,4,5-trichlorophenol	ND	ND	ND	ND	9.4
2,4,6-trichlorophenol	ND	ND	ND	ND	9.4
TOTALS	ND	ND	ND	ND	

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
 Date: 9/28/17
 Checked by: MA
 Date: 1/8/18

TABLE 3-6
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



MEDIUM WELL VOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)				MRL
	MW-10M	MW-11M	MW-12M	MW-13M	
Dilution	1.00	1.00	1.00	1.00	
acetone	ND	ND	ND	ND	10
benzene	ND	ND	ND	ND	5.0
bromodichloromethane	ND	ND	ND	ND	5.0
bromoform	ND	ND	ND	ND	5.0
bromomethane	ND	ND	ND	ND	5.0
2-butanone (MEK)	ND	ND	ND	ND	10
carbon disulfide	ND	ND	ND	ND	10
carbon tetrachloride	ND	ND	ND	ND	5.0
chlorobenzene	ND	ND	ND	ND	5.0
chloroethane	ND	ND	ND	ND	5.0
chloroform	ND	ND	ND	ND	5.0
chloromethane	ND	ND	ND	ND	5.0
dibromochloromethane	ND	ND	ND	ND	5.0
1,1-dichloroethane	ND	ND	ND	ND	5.0
1,2-dichloroethane	ND	ND	ND	ND	5.0
1,1-dichloroethene	ND	ND	ND	ND	5.0
cis-1,2-dichloroethene	ND	ND	ND	ND	5.0
trans-1,2-dichloroethene	ND	ND	ND	ND	5.0
1,2-dichloropropane	ND	ND	ND	ND	5.0
cis-1,3-dichloropropene	ND	ND	ND	ND	5.0
trans-1,3-dichloropropene	ND	ND	ND	ND	5.0
ethylbenzene	ND	ND	ND	ND	5.0
2-hexanone	ND	ND	ND	ND	10
methylene chloride	ND	ND	ND	ND	5.0
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	10
styrene	ND	ND	ND	ND	5.0
1,1,2,2-tetrachloroethane	ND	ND	ND	ND	5.0
tetrachloroethene	ND	ND	ND	ND	5.0
toluene	ND	ND	ND	ND	5.0
1,1,1-trichloroethane	ND	ND	ND	ND	5.0
1,1,2-trichloroethane	ND	ND	ND	ND	5.0
trichloroethene	ND	ND	ND	ND	5.0
vinyl chloride	ND	ND	ND	ND	5.0
m+p xylene	ND	ND	ND	ND	5.0
o-xylene	ND	ND	ND	ND	5.0
TOTAL VOC'S	ND	ND	ND	ND	
TPH	ND	ND	ND	ND	4.7
SOLUBLE ARSENIC	ND	ND	ND	ND	10
SOLUBLE LEAD	ND	ND	ND	ND	50

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
Date: 9/28/17
Checked by: MA
Date: 1/8/18

TABLE 3-7
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



DEEP WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)		MRL
	MW-10D	MW-12D	
Dilution	1.00	1.00	
acenaphthene	ND	ND	9.4
acenaphthylene	ND	ND	9.4
anthracene	ND	ND	9.4
benzo(a)anthracene	ND	ND	9.4
benzo(a)pyrene	ND	ND	9.4
benzo(b)fluoranthene	ND	ND	9.4
benzo(g,h,i)perylene	ND	ND	9.4
benzo(k)fluoranthene	ND	ND	9.4
benzyl alcohol	ND	ND	9.4
butly benzyl phthalate	ND	ND	9.4
di-n-butylphthalate	ND	ND	9.4
carbazole	ND	ND	9.4
indeno(1,2,3-cd)pyrene	ND	ND	9.4
4-chloroaniline	ND	ND	9.4
bis(-2-chloroethoxy)methane	ND	ND	9.4
bis(2-chloroethyl)ether	ND	ND	9.4
2-chloronaphthalene	ND	ND	9.4
2-chlorophenol	ND	ND	9.4
2,2'-oxybis(1-chloropropane)	ND	ND	9.4
chrysene	ND	ND	9.4
dibenzo(a,h)anthracene	ND	ND	9.4
dibenzofuran	ND	ND	9.4
1,2-dichlorobenzene	ND	ND	9.4
1,3-dichlorobenzene	ND	ND	9.4
1,4-dichlorobenzene	ND	ND	9.4
3,3'-dichlorobenzidine	ND	ND	9.4
2,4-dichlorophenol	ND	ND	9.4
diethylphthalate	ND	ND	9.4
dimethyl phthalate	ND	ND	9.4
2,4-dimethylphenol	ND	ND	9.4
2,4-dinitrophenol	ND	ND	47
2,4-dinitrotoluene	ND	ND	9.4
2,6-dinitrotoluene	ND	ND	9.4
bis(2-ethylhexyl)phthalate	ND	ND	9.4
fluoranthene	ND	ND	9.4
fluorene	ND	ND	9.4
hexachlorobenzene	ND	ND	9.4
hexachlorobutadiene	ND	ND	9.4
hexachlorocyclopentadiene	ND	ND	9.4
hexachloroethane	ND	ND	9.4
isophorone	ND	ND	9.4
2-methylnapthalene	ND	ND	9.4
2-methylphenol	ND	ND	9.4
4,6-dinitro-2-methylphenol	ND	ND	47

Prepared by: MP
 Date: 9/28/17
 Checked by: MA
 Date: 1/8/18

TABLE 3-7
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



DEEP WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)		MRL
	MW-10D	MW-12D	
Dilution	1.00	1.00	
4-chloro-3-methylphenol	ND	ND	9.4
3+4-methylphenol	ND	ND	9.4
napthalene	ND	ND	9.4
2-nitroaniline	ND	ND	47
3-nitroaniline	ND	ND	47
4-nitroaniline	ND	ND	47
nitrobenzene	ND	ND	9.4
2-nitrophenol	ND	ND	9.4
4-nitrophenol	ND	ND	47
n-nitrosodimethylamine	ND	ND	9.4
n-nitrosodiphenylamine	ND	ND	9.4
di-n-octyl phthalate	ND	ND	9.4
pentachlorophenol	ND	ND	47
phenanthrene	ND	ND	9.4
phenol	ND	ND	9.4
4-bromophenyl-phenylether	ND	ND	9.4
4-chlorophenyl-phenylether	ND	ND	9.4
n-nitroso-di-n-propylamine	ND	ND	9.4
pyrene	ND	ND	9.4
1,2,4-trichlorobenzene	ND	ND	9.4
2,4,5-trichlorophenol	ND	ND	9.4
2,4,6-trichlorophenol	ND	ND	9.4
TOTALS	ND	ND	

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
 Date: 9/28/17
 Checked by: MA
 Date: 1/8/18

TABLE 3-8
UNION ROAD
ANNUAL GROUNDWATER MONITORING
September 6, 2017



DEEP WELL VOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)		MRL
	MW-10D	MW-12D	
Dilution	1.00	1.00	
acetone	ND	ND	10
benzene	ND	ND	5.0
bromodichloromethane	ND	ND	5.0
bromoform	ND	ND	5.0
bromomethane	ND	ND	5.0
2-butanone (MEK)	ND	ND	10
carbon disulfide	ND	ND	10
carbon tetrachloride	ND	ND	5.0
chlorobenzene	ND	ND	5.0
chloroethane	ND	ND	5.0
chloroform	ND	ND	5.0
chloromethane	ND	ND	5.0
dibromochloromethane	ND	ND	5.0
1,1-dichloroethane	ND	ND	5.0
1,2-dichloroethane	ND	ND	5.0
1,1-dichloroethene	ND	ND	5.0
cis-1,2-dichloroethene	ND	ND	5.0
trans-1,2-dichloroethene	ND	ND	5.0
1,2-dichloropropane	ND	ND	5.0
cis-1,3-dichloropropene	ND	ND	5.0
trans-1,3-dichloropropene	ND	ND	5.0
ethylbenzene	ND	ND	5.0
2-hexanone	ND	ND	10
methylene chloride	ND	ND	5.0
4-methyl-2-pentanone (MIBK)	ND	ND	10
styrene	ND	ND	5.0
1,1,2,2-tetrachloroethane	ND	ND	5.0
tetrachloroethene	ND	ND	5.0
toluene	ND	ND	5.0
1,1,1-trichloroethane	ND	ND	5.0
1,1,2-trichloroethane	ND	ND	5.0
trichloroethene	ND	ND	5.0
vinyl chloride	ND	ND	5.0
m+p xylene	ND	ND	5.0
o-xylene	ND	ND	5.0
TOTAL VOC'S	ND	ND	
TPH	ND	ND	4.7
SOLUBLE ARSENIC	ND	ND	10
SOLUBLE LEAD	ND	ND	50

ND - Not Detected, above the laboratory detection limit

4. GROUNDWATER ELEVATION MONITORING

The purpose of Groundwater Elevation Monitoring is to determine the groundwater gradient of the three hydrogeologic units in and around the closure area. The three hydrogeologic units (layers) are:

- 1) The overburden layer (shallow), which is above the clay layer;
- 2) The till layer (medium), which is beneath the clay layer; and
- 3) Bedrock (deep), which is beneath the till layer.

As stated in the NYSDEC approved Design Report, the frequency of groundwater elevation measurements are as follows:

- Monthly for the first six months after closure (Jan – June 1997);
- Quarterly thereafter until the end of year two (July 1997 – December 1998); and
- Annually (during the dry season) thereafter.

As stated previously, the sampling frequency, sampling parameters, and/or sampling of specific wells will be modified based on the results of previous sampling events (since the landfill closure) and with written approval from the NYSDEC.

The objective for collecting groundwater elevation measurements is to gain knowledge of the groundwater flows and hydraulic gradients in and around the closure. This information is used to generate groundwater flow maps and demonstrate an inward gradient of groundwater around the closure.

On September 6, 2017, UMC measured the depth to groundwater in the monitoring wells. Table 4-1 summarizes the results of these measurements. The data from Table 4-1 were used to create Groundwater Contour Maps (Figures 4-1 through 4-3), which depict groundwater elevations and inferred groundwater flow directions in the three hydrogeologic units. Figure 4-1 shows an inward gradient of shallow (overburden) groundwater across the slurry wall and towards the dewatering trench at the east corner of the closure.

Figures 4-2 and 4-3 depict groundwater elevations in the medium and deep units. The inferred groundwater flow direction for the medium unit is toward the southeast. The inferred groundwater flow direction for the deep unit is easterly. However, since only two (2) monitoring wells intercept the deep unit, a groundwater contour map cannot be produced. Flow is generally toward the southeast and east respectively and has not been affected by the placement of the landfill closure.

TABLE 4-1
UNION ROAD
GROUNDWATER MONITORING REPORT



GROUNDWATER WELL MEASUREMENTS
September 6, 2017

Well Number	Riser Elev. ¹ (Feet)	Depth to Water (Feet)	Water Elev. (Feet)
10S	623.09	9.60	613.49
10M	622.50	11.46	611.04
10D	622.02	15.35	606.67
11S	622.74	14.86	607.88
11M	622.86	20.21	602.65
12S	622.62	19.88	602.74
12M	622.97	21.41	601.56
12D	621.18	18.38	602.80
13S	622.96	12.53	610.43
13M	621.66	12.47	609.19
14S ²	621.61	10.93	610.68
15	624.67	15.88	608.79
16	624.51	14.75	609.76
17	624.44	20.74	603.70
18 ³	624.67	Dry	<602.75
19	625.08	21.35	603.73
20 ⁴	631.98	28.03	603.95
21	629.25	21.59	607.66
22 ⁴	629.24	25.74	603.50
23S	607.45	8.51	598.94
RW1 ⁵	623.76	NM	

¹ Elevations were surveyed by Douglas C. Meyers P.L.S., P.C. on March 17, 1997.

² MW-14S was reinstalled and resurveyed on August 19, 1997.

³ MW-18 is dry; measuring tape stopped without indicating water.

⁴ Depth measured to free product. Both MW-20 and MW-22 have free product on water surface; therefore water level measurement is conservatively assumed as the top of the oil layer (Because of the less dense oil, the actual water elevation would be lower).

⁵ Groundwater measurement was not taken in RW1. The assumed elevation is at the pump inlet (598.76).

⁶ NM: Not Measured

⁷ All Elevations are referenced to Mean Sea Level



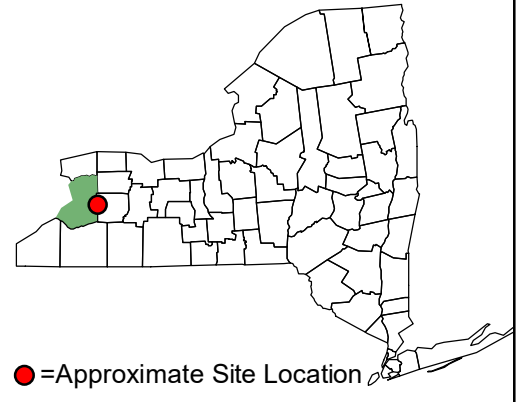
52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

Project Name: Union Road

FIGURE 4-1

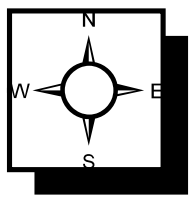
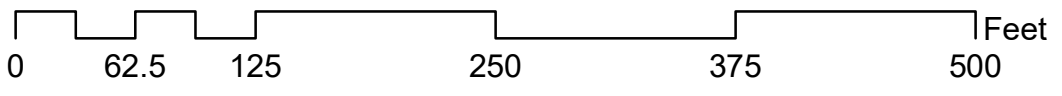
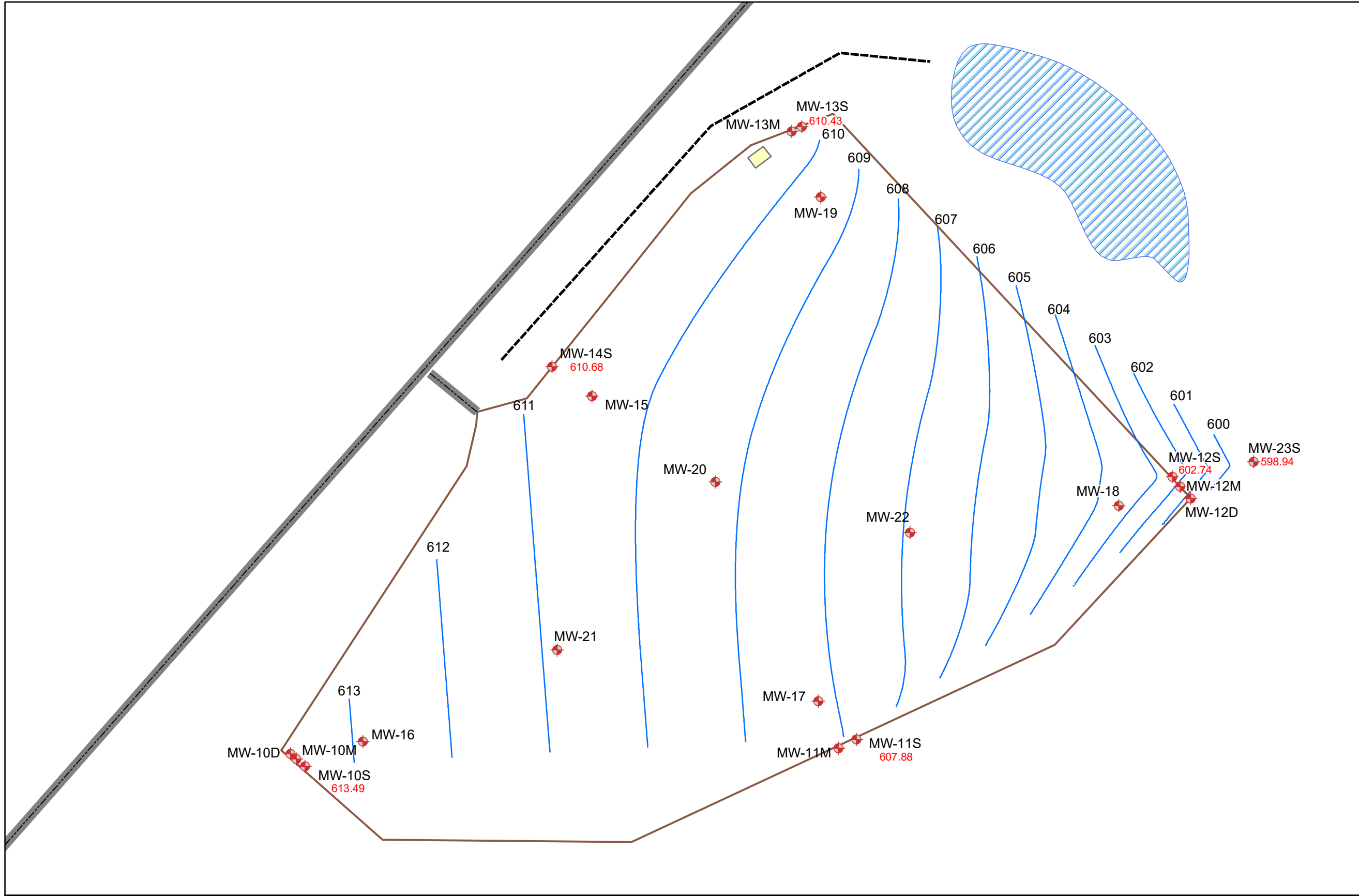
Author: RTM	Checked By: ----
Project #: 2011	Created: 10/10/2011
	Revised: 1/8/18
Scale: 1 in:100 ft	File: GWContour_S_2017



● = Approximate Site Location

Legend

- Monitoring Wells
- Contour
- Road
- Ditch
- Fence
- Shed
- Pond



**Union Road- Shallow Groundwater
Elevation Contour Map for 9/06/17**



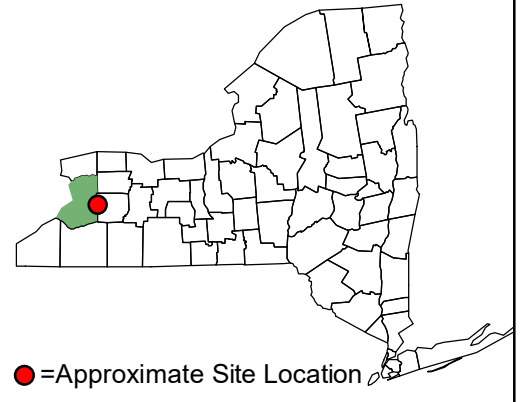
52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

Project Name: Union Road

FIGURE 4-2

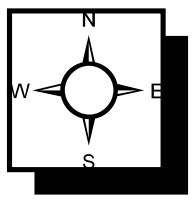
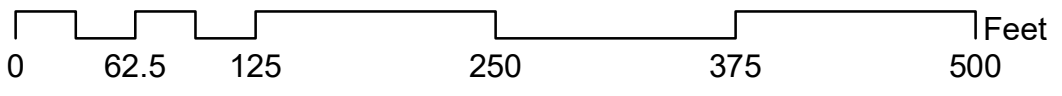
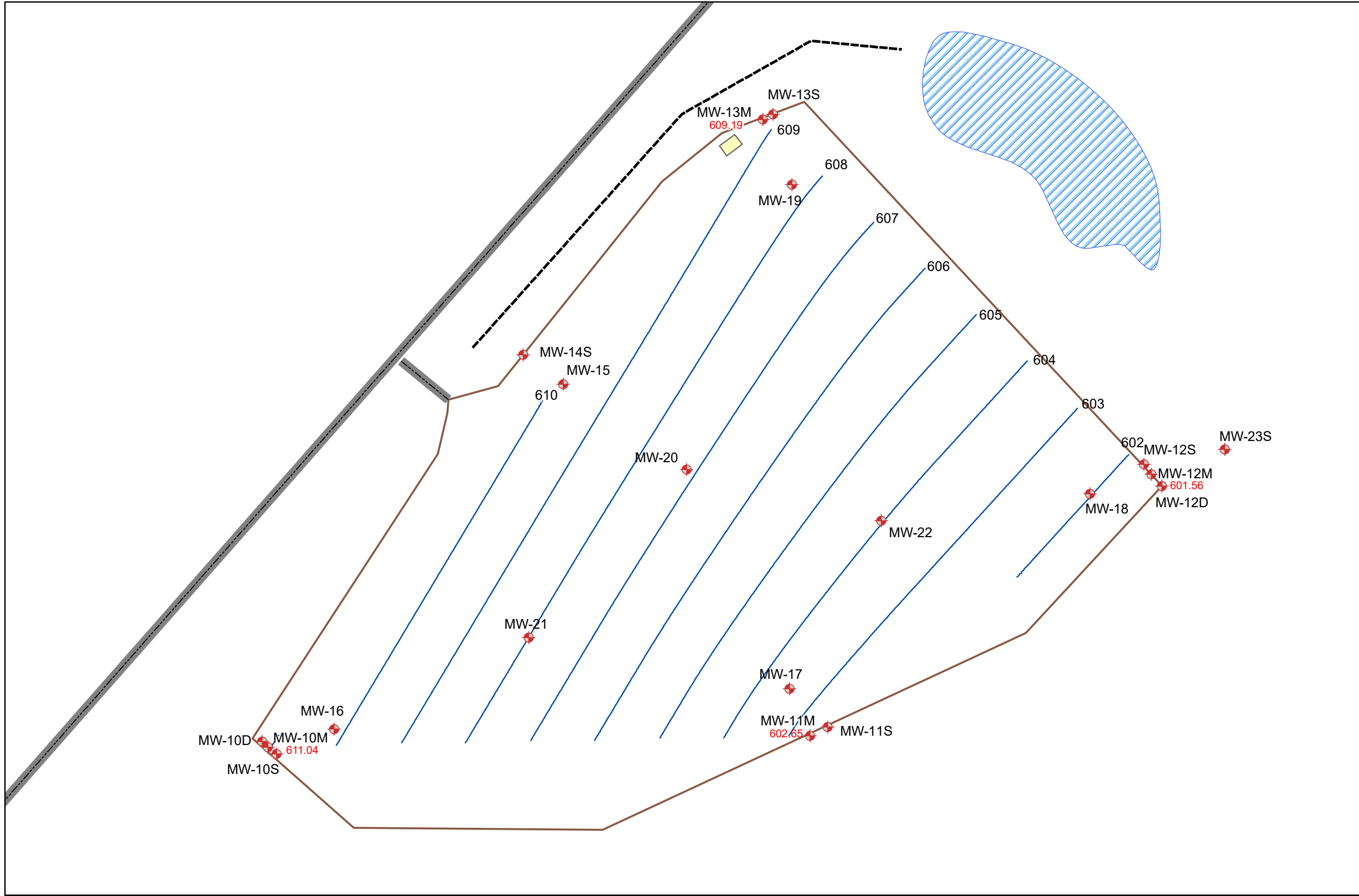
Author: RTM	Checked By: ---
Project #: 2011	Created: 10/10/2011
	Revised: 1/8/18
Scale: 1 in:100 ft	File: GWContour_M_2017



● = Approximate Site Location

Legend

- Monitoring Wells
- Contour
- Road
- Ditch
- Fence
- Shed
- Pond



Union Road- Middle Groundwater
Elevation Contour Map for 9/06/17



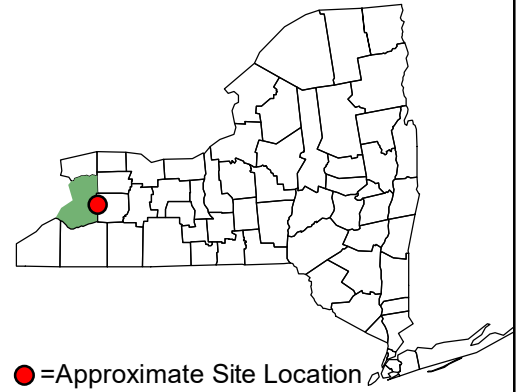
52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

Project Name: Union Road

FIGURE 4-3

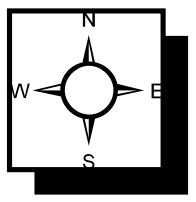
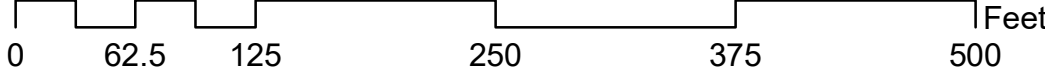
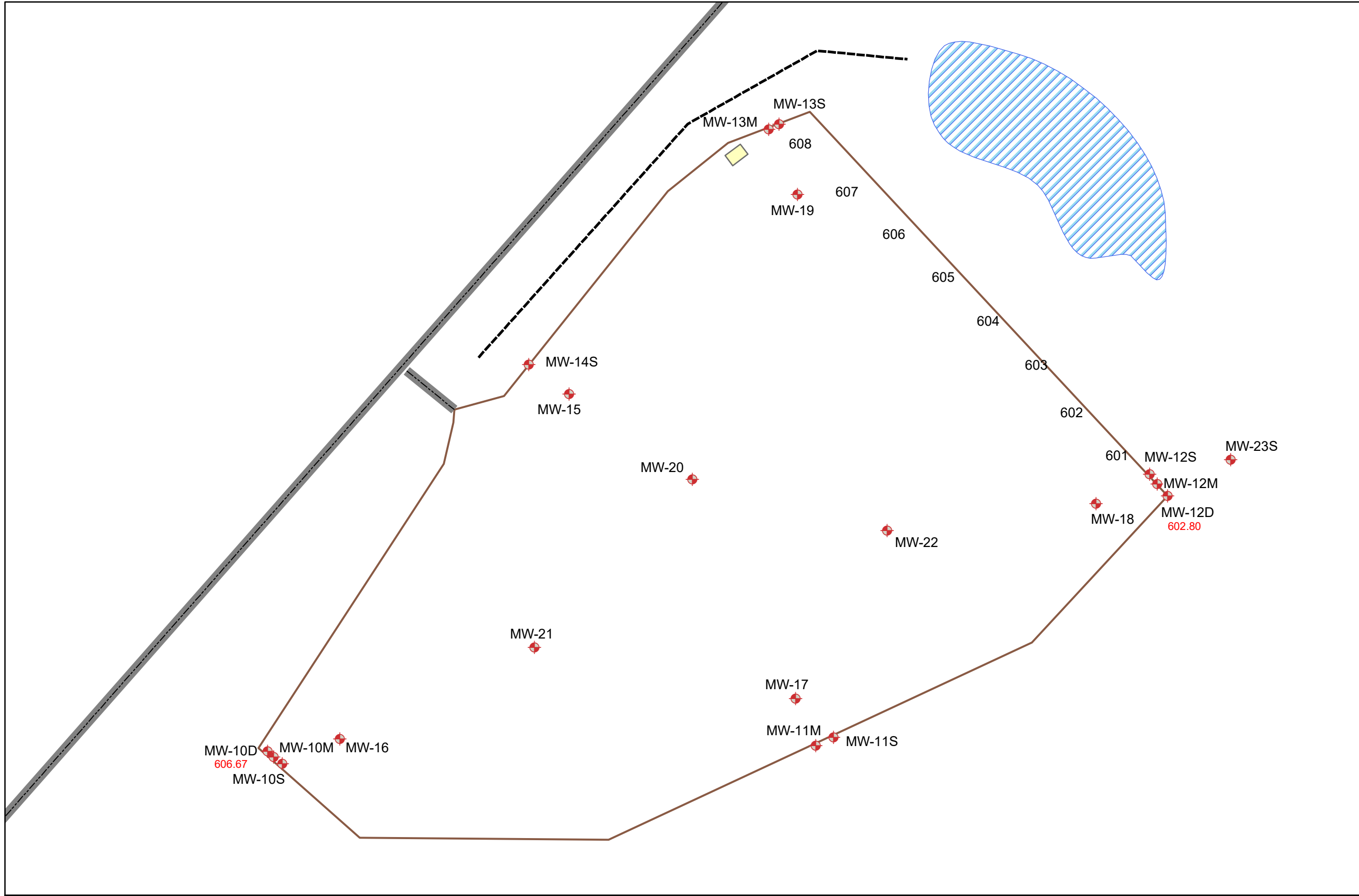
Author: RTM	Checked By: ----
Project #: 2011	Created: 10/10/2011
	Revised: 1/8/18
Scale: 1 in:100 ft	File: GWContour_D_2017



● = Approximate Site Location

Legend

- Monitoring Wells
- Road
- Ditch
- Fence
- Shed
- Pond



**Union Road- Deep Groundwater
Elevation Map for 9/06/17**

5. SITE INSPECTION AND MAINTENANCE

UMC performed an annual site inspection on April 11, 2017. Mr. David Szymanski of the NYSDEC accompanied UMC on the inspection. The inspections consisted of walking the site and documenting the observations. Following is a summary of the inspection and maintenance activities that have occurred this year:

Roundhouse Area: The area is well vegetated and stabilized. During the inspection, several large holes were observed where the concrete of the former roundhouse has collapsed. These holes are large enough for a person to fall into. However, this land is not owned by APU. Numerous property owners adjacent to this area have encroached on it and are maintaining it with the rest of their properties. No action is needed.

Landfill Closure: There are no signs of erosion, no areas of distressed vegetation, and no evidence of any outbreak of any substance (slurry wall material or oil) on the landfill. Erie County Water Company was notified that a small quantity of contaminated soil is located northeast of the new wetland area and beneath the existing water pipe. UMC has an account with Dig Safely New York so when someone needs to dig in the area and calls Dig Safely, UMC will be notified. Except for periodic grass cutting, annual groundwater monitoring, and quarterly groundwater discharge monitoring required by the Buffalo Sewer Authority, no action is needed.

A woodchuck eradication program was implemented during 2009 and continued in 2017. During the 2017 site inspection, Some groundhog tunneling was observed along the north eastern landfill fence. Upon closer inspection, UMC notes that the observed tunneling is located in the dense grass along the base of the fence, and does not impact the landfill cap or soils along the fence.

On April 9, 2017, UMC filled a small number of animals burrows located on the sloped area between the landfill and the northern wetlands. These burrows were previously increasing in size due to rainfall caused erosion. No new erosion was observed during the site inspection.

Some rutting attributed to vehicular traffic was observed along the southwestern side of the site near Slate Bottom Creek. This rutting does not affect the integrity of the capped landfill.

As requested by the NYSDEC, grass on the landfill area is mowed annually. Annual Mowing was performed on October 1, 2017.

Wetland Restoration: The wetlands north of the landfill closure, which was created during the remediation activities has continued to reestablish itself. The wetlands have completely revegetated itself and wildlife (e.g., ducks, geese and deer) have returned to the area.

Stream Restoration: A letter to the Town of Cheektowaga (Town) was sent by APU's Legal Counsel on October 7, 2005. This letter informs the Town that it must notify the NYSDEC prior to any activity in those creeks where the reno mattresses are located (see Figure 1-2).

The reno mattresses installed in 1995/1996 and repaired in 2006 on the creek channel have stabilized and vegetation has established itself through the reno mattresses. There is some sediment accumulation within the creek channels, but at some locations the reno mattress wire mesh was visible at the base of the channel.

At the time of the inspection on April 11, 2017, the gabion basket wing-walls were stable and the reno mattresses installed along the creek were in good condition. No other action is needed.

Downstream Area: Though some of the trees planted in this area have died, there are no signs of erosion in this area. Grass has established itself in this area. No action is needed.

UMC will continue to inspect and repair all closure areas to ensure that the closure remains intact and successful.

Dewatering System: Since 2014, UMC has upgraded various aging dewatering system components as part of the ongoing Site maintenance. These upgrades have included the installation of a new internet connected telemetry system, a new trench dewatering pump control box, new water level sensor probes in both RW-1 and the sump pit, and two new effluent pumps in the sump pit. These upgrades ensure that the Site dewatering system continues to operate as intended.

In February 2017, UMC began receiving “duplex hi” notifications from the dewatering system’s telemetry system. These notifications indicated that water was not being discharged from the sump pit quickly enough. Upon inspection, UMC observed water draining back into the sump pit from the effluent discharge pipe. UMC believed that this was due to a poor seal between the discharge pipe and the new effluent pumps installed on December 9, 2016.

On March 20, 2017, UMC oversaw the removal and reinstallation of the two installed effluent pumps. Reinstalling both pumps realigned the gaskets and eliminated any backflow from the discharge pipe to the sump pit.

The dewatering system is currently operating without issue.

6. CONCLUSION

The groundwater quality within the exterior wells and the groundwater elevation measurements during the 2017 annual monitoring event demonstrate that remedial activities at the Union Road Site are successful. The groundwater quality outside the landfill closure is better than groundwater quality in the interior of the closure.

The groundwater elevation measurements indicate that an inward gradient of shallow groundwater flow has been established across the slurry wall. This inward gradient in combination with the groundwater quality outside the closure demonstrates that the contamination is contained within the slurry wall.

No TPH, lead, arsenic, VOCs, or SVOCs were detected in any of the monitoring wells during this annual sampling event.

Though samples collected from Monitoring wells MW-11S and MW-14S did not contain detectable concentrations of TPH during this monitoring period, detectable concentrations of TPH have existed in samples from both MW-11S and MW-14S since their construction in 1997. As discussed in previous monitoring reports, the contamination appears to be isolated and stabilized within those areas of the site (northwest and south sides) and there are inward groundwater gradient into the landfill closure at MW-11S and MW-14S areas.

UMC will continue to monitor and evaluate the groundwater surrounding the landfill in accordance with the GMP.

APPENDIX A

BORING LOGS AND WELL CONSTRUCTION DRAWINGS

TEST BORING LOG						
Boring No. 10-5						
Project No. Name UNION ROAD - 2035-200	Location BUFFALO NY					
Drilling Contractor/Driller MAXIM						
Geologist's Office JOHN J ZACHER JR						
Drilling Equipment Method HSA		Size Type of Bit 6" HSA	Sampling Method SPILT SPOON	Start Finish		
Well Installed? YES ☒ NO ☐	Casing Mat./Dia. STAINLESS STEEL 2"	Screen Type Slot Mat. STAINLESS Length 10' Dia. 2" Slot Size 0.02				
Elevation of: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
Remarks: HLE TO 21', SAMPLES TO 20'						

LOG OF TEST BORING				WELL CONST.	GRAPHIC LEVEL LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT		
DESCRIPTION				REMARKS	
				SAMPLING STARTS AT 4' B.G.	
4	6	21"	6	BR TO TANKREY CLAY w LITTLE ANGULAR ROCKS TO 12"	STIFF, DIMP
5	6	21"	10	0-5" BR TO TANKREY CLAY SOME ROCKS TO 34"	STIFF DIMP
6	6	21"	20	5-15" CINDERS w SOME ROCKS - DIMP	W/DECOMPOSED LITTLE H ₂ O
8	5	24"	10	15-21" BROWN TAN CLAY SOME SAND, LITTLE SILT TAN & BROWN	STIFF, LITTLE H ₂ O
10	10	12"	3	TAN/LT BROWN CLAY	MED STIFF SOME H ₂ O
12	12	16"	3	TAN/LT BROWN CLAY - TRACE SILTS	MED STIFF SOME H ₂ O
14	14	20'	2	GREY TO LT BROWN CLAY SOME LITTLE BROWN ROCKS	MED STIFF SOME H ₂ O
16	16	18"	3	TAN TO LT BROWN CLAY	MED STIFF SOME H ₂ O
18	18	20"	2	GREYISH BROWN CLAY TRACE ORGANICS.	MED STIFF SOME H ₂ O
20	20			End Boring 21' BLS - 2008 20'	

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

ic-M

Unsub. 2035-200

Buffalo NY

Наим

JOHN J ZACHER JR

HSA

6" HSA

SALT SPOON

1/3/97

Figure 1

DATE

(FT. ABOVE M.S.L.)

REMARKS:

REMARKS

WELL COMBY.

DEAPINC

SAMAINC STARTS 41 BC.

BLK 10 TAN/GRE- CUTY W/LITTLE ROCKS "10/4"

Stiff, Dimp

G-7" BLANKET TANKER CUT - SE 4E ROCKS
744' CINDERES

STIFF DUMP
1024 ..

M-22' BREWSTER CLAY LITTLE ROCK

HEADSTIFF, LITTLE H₂O

TANKER BROWN CLAY

STIFF, LITTLE H₂O

TANKT BROWN COUNTRY

MED STIFF
SOMEH2O

Tan/Lt Brown Clay

MEOSTIFF
SOFT H₂O

TANK & Brown CLAY, LITTLE GREY
LITTLE Round Rocks

MED STIFF
SOME H2O

TAN TO LT BROWN CLAY

MEDSTIFF
5.412 H₂O

GREYISH BROWN CLAY, IMP. ORG. (WIC)

MEMO STAFF
SHE H2U

Proportions Used: Traces = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Screen, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG		
Boring No. 10 M		
PROJECT NO. NAME UNION ROAD - 2035-200	LOCATION BUFFALO NY	
DRILLING CONTRACTOR/DRILLER MAHIM		
GEOLOGIST OFFICE JOHN J ZACHER JR.		
DRILLING EQUIPMENT. METHOD HSA	SIZE TYPE OF BIT 6" HSA	SAMPLING METHOD SPLIT SPOON
		START. FINISH D. 11/3/97
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. STAINLESS STEEL 1/2"	SCREEN TYPE SLOT MAT. STAINLESS LENGTH 10' DIA. 2" SLOT SIZE 0.02
ELEVATION OF: (FT. ABOVE M.S.L.)		DATE
REMARKS:		

LOG OF TEST BORING				WELL CONDT.	GRAPHIC
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	DESCRIPTION		
20	1	1	DARK GREY w/ SOME ORGANICS LITTLE		
22	21	21			
22			GREY w/ SOME BROWN CLAYS		
24	21	21			
24			GREY CLAY		
26	20	20			
26			TOP 14" GREY CLAY		
28	21	21			
28			BOT 7" GREY/LT BROWN CLAY, SOME ROCK FRINGS, LITTLE SAND		
28	12	12			
28			LT BROWN SILT w/ SOME SAND 0-6"		
30	17	17			
30			LT BROWN CLAY, SOME ROCKS 6-17" 112-1"		
BoB @ 31' Bgl					

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. MW-10D		LOCATION Buffalo NY	
PROJECT NO.. NAME Union Road		DRILLING CONTRACTOR/DRILLER Maxim (Dick Miller, Ron Brown)	
GEOLOGIST OFFICE James Down		DRILLING EQUIPMENT, METHOD Air Rotary / HSA	
WELL INSTALLED? YES ☒ NO ☐		CASING MAT./DIA. Stainless / 2"	SCREEN: TYPE slot MAT. stainless LENGTH 10' DIA. 2" SLOT SIZE .020
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE
REMARKS:		DATE	

LOG OF TEST BORING				WELL CONST.	GRAPHIC LITHO LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	DESCRIPTION		
			Sampling started @ 9' BG.		
5	21"	5 6 8 10	Blk to tan/Grey clay w/ trace angular Fragmented Rock up to 1" in size	Stiff, Damp	
	22"	7 30 18 11	Top 8" Blk, tan/grey clay w/ trace angular Fragmented Rock 1" in size next 6" Blk Cinder like material w/ some w/ angular Fragmented Rock Bottom 6" Brown/Tan Sand/Silty Clay w/ 10%-20% Rx Frag. 2"	Stiff, Damp Dry Not Cohesive, little H ₂ O	
	24"	7 9 10 9	Tan to Lt Brown clay, No Rocks	m. stiffness w/ some H ₂ O	
10	16"	2 2 3 3 3	Tan to Lt Brown clay w/ Rocks	m. stiffness w/ some H ₂ O	
	15"	3 3 5	tan to Lt Brown Clay w/o Rocks Possibly some silts	m. stiffness w/ some H ₂ O	
15	20"	2 2 3 4	Gray to Lt Brown Mottled clay w/ trace rounded Rocks, 1/4 - 1/8" diameter.	m. stiffness w/ some H ₂ O	
	18"	1 3 4 6	Tan to Lt Brown clay w/o Rxs	m. stiffness w/ some H ₂ O	
	21"	2 2 4	Grayish/Brown/Blk clay w/ 10-20% organics	m. stiffness w/ some H ₂ O	

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO.

MW-100

PROJECT NO. NAME

Union Road 2035-200

LOCATION

Buffalo NY

DRILLING CONTRACTOR/DRILLER

Maxim (Dick Miller, Ron Brown)

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT METHOD

HS A / Air Rotary

SIZE TYPE OF BIT

HS A 8 1/4" / 7 7/8"

SAMPLING METHOD

Split Spoon

START FINISH DATE

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT. DIA.

Stainless Steel 2"

SCREEN:

TYPE SLOT

MAT. Stainless

LENGTH 10' DIA. 2"

SLOT SIZE .020

ELEVATION OF:

(FT. ABOVE M.S.L.)

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
20'-22'	21"	1	1	Greyish/Blk/Drk Grey clays w/ traces organics	m. stiffness w/ some H ₂ O		
22'-24'	20"	3	3	Grey + Brown clays	m. stiffness w/ trace H ₂ O		
24'-26'	0"	2	2	The inside of the spoon was v. wet, No Basket.			
26'-28'	22"	1	1	Top 16" Grey clays	soft wet		
28'-30'	17"	3	3	mid 4" Grey clays, w/ trace organics	soft wet		
30'-32'	18"	6	6	Bottom 2" Grey/H Brown clays w/ some Org. Rrs, Sands.	Not cohesive wet		
32'-34'	4"	3 1/2	3 1/2	16 Brown/Tan clays w/ silts 20% Rock frags. 1/4" - 2"	soft wet		
34'-36'				Top 3" sands w/ H Brown/Tan silts + clays	Not Cohesive wet		
36'-38'				Bottom 15" H Brown/Tan clays w/ silts, 20% Rock fragments 1/4" - 2" in size	Soft wet		
38'-40'				16 Brown/Tan clays w/ silts, 20% Rxs frags 1/4" - 2" in size	soft wet		
40'-42'				Bed Rock.			
42'-44'				Bottom of Protective casing			

TEST BORING LOG

BORING NO.
MW-100

PROJECT NO. NAME
Union Road 2035-200

LOCATION
Buffalo NY

DRILLING CONTRACTOR/DRILLER
Maxim

GEOLOGIST OFFICE
James Doan

DRILLING EQUIPMENT METHOD
HSA

SIZE TYPE OF BIT

SAMPLING METHOD
Split Spoon

START FINISH DATE

WELL INSTALLED? YES ☒ NO ☐ CASING MAT. DIA. 2" SCREEN: TYPE SLOT MAT. stainless LENGTH 10' DIA. 2" SLOT SIZE .020

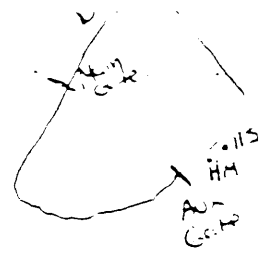
ELEVATION OF: GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
5				ⓐ 45 the water bearing zone The hole was collapsed The rock isn't very consolidated	B.O.B 45.5 BG		
10							
15							

BORING NO. MW-115		TEST BORING LOG	
PROJECT NO. NAME Dineen Road 2035-200		LOCATION Buffalo NY	
DRILLING CONTRACTOR/DRILLER M. L. L. M.			
GEOLOGIST. OFFICE JOHN J. ZACHER JR.			
DRILLING EQUIPMENT. METHOD HSA		SIZE TYPE OF BIT 6" HSA	SAMPLING METHOD SPLIT SPOON
WELL INSTALLED? YES ☒ NO ☐		CASING MAT. / DIA. STAINLESS STEEL 12"	SCREEN: TYPE SLOT MAT. STAINLESS LENGTH 10' DIA. 2" SLOT SIZE 0.020
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE	TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE
REMARKS:			



LOG OF TEST BORING				WELL CONST.	GRAPHIC LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT-G.S.F.		
SAMPLING STARTED AT 4' B.G.					
5	4'	10	Brown/Dk Brown Silts & clays TRACE RA FRAGMENTS < 1/8"	STIFF Dry - little H ₂ O	Core
	6'	9			
	6'	10	Brown/Dk Brown Silts AND clays NO RAS	STIFF LITTLE TO NO H ₂ O	Core
	8'	4			
	8'	15	Fill	STIFF LITTLE TO NO H ₂ O	Core
	8'	12	Brown/Dk Brown clays		
	10'	11	TRACE RA FRAGS	STIFF LITTLE TO NO H ₂ O	Core
	10'	12	Fill		
10	10'	12	TOP 9" Dk Brown clays w/ some organics	STIFF - LITTLE TO NO H ₂ O	Core
	10'	4	BOTTOM 4" - Grey Silts / clays AND organics	STIFF - LITTLE H ₂ O	
	12'	6			Core
	12'	6	GREY clays LITTLE organics	MED STIFFNESS SOME H ₂ O	
	12'	8			Core
	14'	7	TOP 6" - GREY clays, LITTLE organics	MED STIFFNESS LITTLE H ₂ O	
	14'	13			Core
15	16'	5	BOTTOM 12" - REDDISH BROWN clay NO RAS organics	STIFF - LITTLE TO NO H ₂ O	
	16'	15	REDDISH BROWN clays w/ GREY layers	STIFF - LITTLE TO NO H ₂ O	Core
	16'	18	GREY layers MAY BE EVIDENCE OF VARIED clays		
	18'	21			Core
	18'	22	REDDISH BROWN clays w/ GREY layers	M. STIFFNESS DAMP	
	18'	5	GREY layers MAY BE EVIDENCE OF VARIED clays		Core
	20'	1			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. MW-113		TEST BORING LOG	
PROJECT NO. NAME INDIAN ZONE - 2035-200		LOCATION BUFFALO NY	
DRILLING CONTRACTOR/DRILLER MAXIM			
GEOLOGIST. OFFICE John J Zucker Jr			
DRILLING EQUIPMENT. METHOD HSA		SIZE TYPE OF BIT 6" HSA	SAMPLING METHOD SPLIT SPECIM
			START. FINISH DATE 1/2/97
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. SS 12"	SCREEN: TYPE S.W.T. MAT. STAINLESS LENGTH 16' DIA. 2" SLOT SIZE 0.070	
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN
			GW SURFACE
REMARKS:			

LOG OF TEST BORING				WELL CONST.	GRAPHIC HYDRO LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT		
20	20	3		BROWN DARK BROWN CLAYS, NO 2's.	STIFF LITTLE H ₂ O
		5			
	24"	6			
22	22	5		BROWN WISKEY GREY CLAYS	STIFF
		2			TRACE H ₂ O
	23"	4			
		5			
	24	4		PeBe 74" Bgl	
5					
10					
15					

Proportions Used: Trac = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO.

MW-11M

PROJECT NO.. NAME

Union Road 2035-200

LOCATION

Buffalo NY

DRILLING CONTRACTOR/DRILLER

Maxim

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT. METHOD

HS A

SIZE TYPE OF BIT

SAMPLING METHOD

Split Spoon

START. FINISH DATE

12/18 - 12/19/96

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT. DIA.

Stainless Steel 2"

SCREEN:

TYPE SLOT

MAT. Stainless

LENGTH 10" DIA. 2"

SLOT SIZE .020

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC HYDRO LOG
				Sampling started @ 4' BG			
5	4'	14"	10	Brown/Drk Brown silts + clays w/ Trace	Stiff		
	6'	10	8	amounts of Rx Fragments. less than 1/8"	little to No H ₂ O		
	6'	13"	10	Brown/Drk Brown silts + clays, w/o Rx's	Stiff		
	8'	12	8	Most likely Fill	little to No H ₂ O		
	8'	14	12	Bea Drk Brown clays w/ Trace amounts of Rx frags.	Stiff		
	10'	4"	10	most likely Fill	little to No H ₂ O		
10	10'	10"	3	Top 8" Drk Brown clays w/ some Organics	Stiff		
	12'	9	5	Bottom 2" Grey silts + clays w/ some Organics	little to No H ₂ O		
	12'	18"	15	Top 4" discarded looked as if they fell into hole	Soft w/ some H ₂ O		
	14'	14"	7	Bottom 14" Grey clays w/ some organic + Trace	m. stiffness		
	14'	19"	11	ashes or soot.	Some H ₂ O		
15	16'	24"	19	Reddish Brown clay w/ No Rx's or organics	stiff		
	16'	25	18	Reddish Brown clays w/ Grey layers	little to No H ₂ O		
	18'	20	3	The grey layers may be varbed clays.	m. stiffness		
	20'	5	4	Reddish Brown clays w/ Grey layers	Damp		
	20'	5	5	The Grey layers may be evidence of varbed clays			

TEST BORING LOG

BORING NO.

MW- 11M

PROJECT NO.. NAME

Union Road 2035-200

LOCATION

Buffalo NY

DRILLING CONTRACTOR/DRILLER

Maxim

GEOLOGIST, OFFICE

James Dean

DRILLING EQUIPMENT, METHOD

HS A

SIZE, TYPE OF BIT

SAMPLING METHOD

Split Spoon

START, FINISH DATE

WELL INSTALLED?

CASING MAT. DIA.

SCREEN:

TYPE SLOT

MAT. stainless

LENGTH 10' DIA. 2" SLOT SIZE .025

YES ☒ NO ☐

Stainless Steel 2"

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
20'	24"	24"	1	- Reddish brown varbed clays w/ Red, Grey, and dark Brown layers.	Soft Wet		
22'	22"	22"	1	Reddish/Brown clays	Soft Wet		
24'	24"	24"	1	Reddish Brown (Fleshy color) clays 1/4" - 1/2" Rx frags. w/ rounded edges.	Soft Wet		
26'	26"	26"	3	Reddish Brown (Fleshy color) clays 1/4" - 2" Rx frags w/ rounded edges.	Soft Wet		
28'	28"	28"	2	Reddish Brown (Fleshy color) clays + 408-506 Rock fragments w/ some rounded edges	Soft Wet		
30'	30"	30"	5	- mostly Rocks 70% w/ some Reddish Brown (Fleshy color) clays	Soft Wet		
32'	32"	32"	13	- Reddish Brown (Flesh color) clays + silts - some sands 20-30% rock mostly smooth & pebbles	Soft Wet		
34'	34"	34"	1	Reddish Brown/Grey silts + clays 60% Rocks + Sands	Wet Soft -> Hard		
36'	36"	36"	24	Reddish Brown/Grey silts, clays, sands + Rocks.	Wet		
38'	38"	38"	54 1/2"				
39'				Bed Rock @ 39' BG			

TEST BORING LOG	
Boring No. 17-5	
Project No. Name UNION ROAD - 2035-200	Location BUFFALO NY
Drilling Contractor/Driller MAXIM	
Geologist/Office JOHN J ZACHER JR.	
Drilling Equipment/Method HSA	Size/Type of Bit 6" 8" 6" HSA
Sampling Method SPLIT SPOON	Start/Finish Date 1-2-97
Well Installed? YES ☒ NO ☐	Casing Mat./Dia. STAINLESS STEEL 1/2"
Screen TYPE SLOT	Mat. STAINLESS LENGTH 10' DIA. 2" SLOT SIZE 0.020
Elevation of: (FT. ABOVE M.S.L.)	GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE
REMARKS:	

LOG OF TEST BORING					WELL CONST.	GRAPHIC LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION		
3				SAMPLING START AT 15' BG		
6						
9						
12						
15	10	21"	9	BROWN CLAYS - FILL	STIFF LITTLE H ₂ O	
17	17	24"	7	BROWN CLAYS FILL	STIFF TRACE H ₂ O	
19	19	23	5	BROWN TO DARK BROWN CLAYS	STIFF LITTLE H ₂ O	
21	21	24"	4	BROWN TO TAN CLAY W/ LITTLE GRF	STIFF SOME LITTLE H ₂ O	
23	23	24"	5	BROWN & GRAY CLAY	STIFF / MOIST	
25	25					

Proportions used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

Boring No.
12-M

TEST BORING LOG

PROJECT NO. NAME
UNION ROAD - 2035-200

LOCATION
BUFFALO NY

DRILLING CONTRACTOR/DRILLER
MAXIM

GEOLOGIST. OFFICE
JOHN J ZACHER JR.

DRILLING EQUIPMENT. METHOD
HSA

SIZE TYPE OF BIT
6" 5/8" HSA

SAMPLING METHOD
SPLIT SPOON

START. FINISH CA
12/31/96

WELL INSTALLED?
YES ☒ NO ☐

CASING MAT./DIA.
STAINLESS STEEL 12"

SCREEN
TYPE SLOT MAT. STAINLESS

LENGTH 10' DIA 2"

SLOT SIZE 0.020

ELEVATION OF:
(FT. ABOVE M.S.L.)

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

ON SURFACE

DATE

REMARKS: NO SAMPLES 0-20' FILL MATERIAL, CUTTINGS BROWN DR. SAMPLE 40-42 - CORROSION, REFUS 42.5'

LOG OF TEST BORING				WELL CONDV.	CORRECTION GRAPHIC CHARTING
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT		
20					
22	2"	3			
22		4			
24	24"	4			
24		2			
26	24"	1			
26		4			
28	19"	7			
28		8			
30	18"	2			
30		4			
32	16"	2			
32		3			
32		4			
34	18"	3			
34		8			
34		12			
34		10			
36	24"	1			
36		2			
38	20"	1			
38		7			
40	6"	50/3"			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
 Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core
 Weather Bul 202
 Bob - 42.5'



44 SHELTER ROCK ROAD
DANBURY, CT 06810
(203) 796-5279

TEST BORING LOG

BORING NO.

MW-12D

PROJECT NO. NAME

Union Road 2035-200

LOCATION

Buffalo NY

DRILLING CONTRACTOR/DRILLER

Maxim (Ron Brown, Dick Miller)

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT METHOD

HSA / Air Rotary

SIZE TYPE OF BIT

8 1/4" HSA / 7 7/8" Air/5 7/8"

SAMPLING METHOD

Split Spoon

START FINISH DATE

12/12-12/16/96

WELL INSTALLED?

CASING MAT. DIA.

SCREEN:

TYPE SLOT

MAT. Stainless

LENGTH 10' DIA. 2"

SLOT SIZE .020

YES ☒ NO ☐

Stainless Steel 2"

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

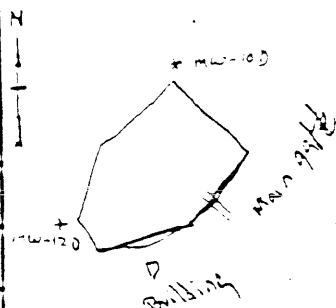
REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
5				No samples taken until 20' BG			
				The material is all Fill until then.			
10				Grout Seal			
15							

2-10% Little = 10-20%. Some = 20-35%. And = 35-50%

Continuous Soil Core



2013

TEST BORING LOG

BORING NO.
MW-127

PROJECT NO. NAME
Union Road 2035-200

LOCATION
Buffalo NY

DRILLING CONTRACTOR/DRILLER
Maxim

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT METHOD
HSA

SIZE TYPE OF BIT

SAMPLING METHOD
Split Spoon

START FINISH DATE

WELL INSTALLED? CASING MAT. DIA.
YES ☒ NO ☐ Stainless Steel 2"

SCREEN:
TYPE SLOT

MAT. Stainless

LENGTH 10' DIA. 2" SLOT SIZE .025

ELEVATION OF:
(FT. ABOVE M.S.L.)

GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE

DATE

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
20'	24"	3	5	Brown to Drk Brown Clays, no Rxs	Stiff little to no H ₂ O		
22'	24"	3	5	Brown/Tan/w/ some Greys	Stiff w/ trace H ₂ O		
24'	24"	4	5	Greyish/ Red Brown Clays, Trace Rx Fragments 1/8" - 1/4"	Soft Damp		
26'	24"	4	5	Top 6" Red Brown Clay, no Rxs	Stiff		
28'	17"	6	14	Bottom 11" Lt Brown/Tan (Fleshy color) Clays, Trace silts + some Rx	Soft w/ Some H ₂ O		
28'	15"	4	1	1t Brown/Tan (Fleshy color) clays, Trace silts +	Soft		
30'	14"	3	1	Some rock fragments 1/8" - 1/4"	Some H ₂ O		
30'	14"	3	1	1t Brown/Tan (Flesh color) clays, Trace silts +	Soft		
32'	24"	1	1	some Rock fragments	Some H ₂ O		
32'	24"	1	1	Top 12" 1t Brown/Tan, w/ some grey clays some Rx	Soft, Damp		
34'	24"	1	1	fragments. 1st 1t Brown/Tan (Flesh color) clays + silts	No cohesive strength Wet to Damp		
34'	24"	1	1	Bottom 11" Grey 50% Sands no Rxs			
15				Sample skipped the augers into hard unconsolidated Rocks			
37'	5"	5"	5"	1t Brown/Tan/Grey Clays w/ silts + Angular Rock	Soft Wet		
39'				fragments 40-50% 1/8" - 1"			

30T 5

TEST BORING LOG

BORING NO.

MW- 129

PROJECT NO. NAME

Union Road 2035-200

LOCATION

Buffalo NY

DRILLING CONTRACTOR/DRILLER

Maxim

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT METHOD

HSA

SIZE TYPE OF BIT

SAMPLING METHOD

Split Spoon

START FINISH DATE

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT. DIA.

Stainless Steel 2"

SCREEN:

TYPE SLOT

MAT. Stainless

LENGTH 10' DIA. 2" SLOT SIZE .025

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

FT. ABOVE M.S.L.)

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
40-42	2'	50/2"		mostly RY 1/4"-2" in size w/ a matrix of lt Brown/Tan/Grey clays + silts - Bed Rock @ -41' BG	Wet Stiff Cement Seal		
				Bottom of Protective casing @ 46' BG	Bentonite seal		
				Stainless Steel Riser			
				Stainless Steel Screen			
				sand			
				Bottom of hole 61.5' BG			

TEST BORING LOG		11 GITE		
BORING NO. MWD-135	LOCATION BUFFALO NY			
PROJECT NO. NAME UNION ROAD 2035-200				
DRILLING CONTRACTOR/DRILLER MAXIM				
GEOLOGIST. OFFICE JOHN J. ZACHER JR				
DRILLING EQUIPMENT. METHOD HSA	SIZE TYPE OF BIT 6" HSA	SAMPLING METHOD SPLIT SPOON	START. FINISH DATE 12/20/96	
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. STAINLESS STEEL 12"	SCREEN: TYPE SLC	MAT. STAINLESS	LENGTH 10' DIA. 2" SLOT SIZE 0.020
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE DATE
REMARKS: BORING TO 21', last 1' NOT SPLIT SPOONED Well Casing Riser at 20.5' B.G.				

LOG OF TEST BORING				WELL CONST.	GRAPHIC LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT		
DESCRIPTION				REMARKS	
SAMPLING STARTED AT 4' B.G.					
4		15	DARK BROWN CLAYS	STIFF	S.G.
5		10	NO ROCKS	LITTLE NO H2O	
6		15	SOME CINDERS		S.G.
6		12	DARK BROWN CLAYS	STIFF	
12		10	SOME CINDERS	TRACE H2O	S.G.
8		10			
8		12	5' → DARK BROWN CLAYS, LITTLE CINDERS	STIFF, LITTLE H2O	S.G.
10		10	80% - BLACK SANDS / CINDERS NOT MIXTURE	DRY	
10		10	20% - BLACK SAND CINDERS	DRY	S.G.
12		11	BETW 3" - WOOD LONG CREVICE CRK 2		
12		10	BLACK SAND / CINDERS	WET	S.G.
14		10			
14		7	BLACK SAND / CINDERS	WET	S.G.
15		12	SOME BRICK AND WOOD		
16		5	BLACK SAND CINDERS w/ SOME RED CLAY	DAMP	S.G.
16		5			
18		7			S.G.
18		3	TOP 6" BLACK CINDERS	WET	
20		3	6"-15" RED CLAY, NO ROCKS	MED STIFF	S.G.
20		3		SOME H2O	

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

B.B. 21'

TEST BORING LOG

BORING NO.

MW-13M

PROJECT NO. NAME

Union Road 2035-200

DRILLING CONTRACTOR/DRILLER

Maxim

GEOLOGIST OFFICE

James Dean

DRILLING EQUIPMENT, METHOD

HSA

SIZE, TYPE OF BIT

SAMPLING METHOD

Split Spoon

START, FINISH DATE

12/19/96

WELL INSTALLED?

CASING MAT. DIA.

SCREEN:

YES ☒ NO ☐

Stainless Steel 2"

TYPE SLOT

MAT. Stainless

LENGTH 10' DIA. 2" SLOT SIZE .02

DATE

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

(FT. ABOVE M.S.L.)

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
5'	5'	12"	18 12 8 17	-Drk Brown clays w/o Rxs	Stiff little to No H ₂ O		
10'	10'	8"	15 14 5	Blk sands + ashes or cinders - Not a native material	No Cohesive strength DRY		
12'	12'	11"	7 9 4 5	Top 9" Blk sand + ashes or cinders some organics	No Cohesive strength DRY		
14'	14'	5"	50/5"	Bottom 2" Wood, Aobby from a RR tie.	Damp		
15'	15'	5"	50/5"	Top 2" Blk ash w/ some organics Next 1" Brick (Red Bottom 2" Wood			
16'	16'	3"	50/3"	Wood			
18'	18'			Wood			
19'	19'			Wood			

Proportions used: Traces = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

CONTINUOUS SOIL CORE

44 SHELTER ROCK ROAD
DANBURY, CT 06810
(203) 796-5279

2072

TEST BORING LOG

BORING NO. MW-13M

PROJECT NO. NAME Union Road 2035-200

LOCATION Buffalo NY

DRILLING CONTRACTOR/DRILLER Maxim

GEOLOGIST OFFICE James Dean

DRILLING EQUIPMENT, METHOD HSA

SIZE, TYPE OF BIT

SAMPLING METHOD Split Spoon

START, FINISH DATE

WELL INSTALLED? YES ☒ NO ☐

CASING MAT. DIA. Stainless Steel 2"

SCREEN: TYPE SLOT

MAT. stainless

LENGTH 10' DIA. 2" SLOT SIZE .020

ELEVATION OF: FT. ABOVE M.S.L.)

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
5	24"	24"	7 5 5	Top 5" Wood Bottom 19" Greyish red clays, No Rocks Reddish Grey clays w/ some rocks	Stiff $\rightarrow$ soft little to No H ₂ O		
10	30"	12"	1 2 5 6	Top 2" Wood - maybe from a plug in bottom of auger Bottom 10" Reddish/Grey clays w/ some R _x Frag Pebbles There wasn't a basket in the spoon.	Soft Wet.		
15	34"	0"	50/0"	Beb Rock	Bottom of Boring		

10-20%, Some = 20-35%, And = 35-50%

TEST BORING LOG

BORING NO. 14-S		LOCATION Buffalo NY	
PROJECT NO.. NAME UNION ROAD		DRILLING CONTRACTOR/DRILLER MAXIM Technologies	
GEOLOGIST, OFFICE MARK CAMBRA NES DARYBURY, CT		START, FINISH DATE 8/19/97	
DRILLING EQUIPMENT, METHOD HSA		SIZE, TYPE OF BIT 6" HSA	SAMPLING METHOD AF
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. Steel 4"	SCREEN: TYPE 4" Slot MAT. Stainless Steel	LENGTH 10 DIA. 2" SLOT SIZE 020
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING	TOP & BOTTOM SCREEN GW SURFACE
REMARKS: Replaces Previous 14-S well.		DATE 8/19/97	

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
0				Topsoil	giant		
3.8				Fill - Reddish brown Sandy Clay	Bentonite		
5.3							
6.8							
10				Reddish Brown Clay	SAND		
15							
16.8							
17.3				END of Boring			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

LOG OF TEST BORING				WELL CONST.	GRAPHIC HYDROLOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS
SAMPLING STARTS AT 4' B.G.					
A Boncher 8/19/97					
4'		7		TOP 1" - WOOD	
5'	20"	14		1-11" - BROWN CLAY W/ LITTLE ORG. MAT.	STIFF, DRY
6'		17		11-17" CINDERS	DRY
6'		12		17-26" BROWN CLAY W/ SOME ORG. MAT.	STIFF, DRY
6'		19		0-7" - FINE CINDERS, STONES, BRICK	
8'	15"	14		7-19" - BROWN CLAY W/ SOME GRAY VARIING	STIFF, TRICE H ₂ O
8'		23		0-7" BROWN CLAY W/ LITTLE ROCKS (1/4")	STIFF, LITTLE H ₂ O
8'		5		7-22" RED BROWN CLAY	STIFF, LITTLE H ₂ O
10'	22"	7			
10'		10		RED BROWN CLAY, TRACE ORGANICS (ROOTS)	STIFF - LITTLE H ₂ O
10'		16			
12'	22"	12			
12'		13		RED BROWN CLAY - SOME GRAY VARIING	STIFF LITTLE H ₂ O
12'		14			
14'	24"	10			KEY 4" - SOME H ₂ O
14'		3		RED BROWN CLAY SOME GRAY VARIING	STIFF / LITTLE H ₂ O
14'		5			
16'	24"	12		RED BROWN CLAY W/ SOME GRAY	STIFF - LITTLE H ₂ O
16'		13			
18'		13			
18'		15			
18'		0		0-4" MHA BROWN / GRAY CLAY	RED STIFF ^{SOME} H ₂ O
18'	24"	3		4-24" GRAY SANDY CLAY (46-50%)	SOFT, WET
20'		3			
20'		3			

Proportions Used: Traces = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Spill Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG	
BORING NO. <u>145</u>	
PROJECT NO. NAME	LOCATION
DRILLING CONTRACTOR/DRILLER	
GEOLOGIST OFFICE	
DRILLING EQUIPMENT, METHOD	SIZE, TYPE OF BIT
SAMPLING METHOD	START, FINISH CA
WELL INSTALLED? YES ☐ NO ☐	CASING MAT./DIA. SCREEN: TYPE MAT. LENGTH DIA. SLOT SIZE
ELEVATION OF: GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE	(FT. ABOVE M.S.L.)
REMARKS:	

LOG OF TEST BORING					WELL CONST.	GRAPHIC LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION		
20'				GREY CLAY	SOFT, WET	
22'	15'					
22'		weight		GREY CLAY	WET SAT, WET	
24'	15"	Gr				
24'		200		GREY CLAY	SOFT, WET	
24'		000				
26'	18"	2				
26'		2		GREY CLAY	SOFT	
28'	24"	3			SATURATED	
28'		3		0-3 GREY CLAY	SATURATED, SOFT	
28'		00				
30'	26"	01		5-20' GREY CLAY, SOME ROCKS	VERY WET, SOFT	
30'		41				

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO.
MW-15

PROJECT NO. NAME
UNION ROAD

LOCATION
ON LANDFILL CAP

DRILLING CONTRACTOR/DRILLER
MAXIM-ENGINE P. JENCE

GEOLOGIST OFFICE
HANSON / SEWATA DANBURY

DRILLING EQUIPMENT METHOD
SSB B/A

SIZE TYPE OF BIT
HSA 6.25" H.S.A

SAMPLING METHOD
SS

START FINISH DATE
2/20/94

WELL INSTALLED? CASING MAT. DIA.
YES ☒ NO ☐ SS 2"

SCREEN TYPE

MAT. SS

LENGTH 10' DIA. 1"

SLOT SIZE 0.1"

ELEVATION OF: GROUND SURFACE 618.8

TOP OF WELL CASING 620.0'

TOP & BOTTOM SCREEN 618'-600'

GW SURFACE
NA

DATE

2/20/94

REMARKS:

ELEVATION AND DEPTHS RELATIVE TO PRELAP SURFACE

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
2	21	26/32		Partly gravel silt & gravel. FINE GRAY. ORGANIC. TAN/BROWN STAIN/GRAN. MOUNT (H2O2N) - LITTLE 1/4" gravel.			
4	11	13/14		TAN/BROWN CLAY, FIRM. NO COARSE MATERIALS REMAINING.			
5	1.5'	27/32		CONCRETE ALL MAT'L CONSEC. BLOWS: SAND GRAVELLY OF FINE FINES. TAN. 1" SUBSQUAR. BLK. FRAG. TAN FIRM CLAY. NO COARSE MAT'L	Gravel Fine sand Coarse gravel		
6	1.5'	11/32		GREY CLAY. NO COARSE MATERIALS, SOFT. TRACE SILT			
8	18	9/16		SAME BUT DARK. SILTY CLAY. TRACE LAMINAE SAME BUT GRAY/GRY. SILTY CLAY.			
10	21	5/16		GREY/GRY SILT. SAME CLAY. SOFT.			
12	11.5'	6/16		SAME			
14	11.5'	4/16		SAME			
16	21	4		SAME			
18							

EOB 19.0'

BORING NO.

Min-16

TEST BORING LOG

PROJECT NO. NAME

UNDER ROAD

LOCATION

CAP INTERIOR

DRILLING CONTRACTOR/DRILLER

MAXIM/EMPIRE BENCE

GEOLOGIST/OFFICE

HANSON/SUNWAY

DANBURY

DRILLING EQUIPMENT METHOD

CME 450

HSA

SIZE TYPE OF BIT

6 1/4"

SAMPLING METHOD

SS

START FINISH DATE

2/2/96

WELL INSTALLED?

YES ☒NO ☐

CASING MAT. DIA.

2" SS

SCREEN:

TYPE 0.20

MAT. SS

LENGTH 10 DIA. 2"

SLOT SIZE 0.20

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

2/2/96

(FT. ABOVE M.S.L.)

618.8 618.9

620.0

48.8 610.0 - 620.0

N/A

REMARKS:

ALL ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP GRAVE

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
2'	2.0' 35			Hard Brown Clay, 10% Gravel	FOOT		
4'	1.5' 20			Upper 12" same Bottom 6" CEMENT	ORY		
5'	1.0' 8/ft			same	ORT		
6'	9" 12/ft			TAN SAND, 10% GRAVEL, 10% ANGULAR ROCK FRAGS. WELL GRADED	FINE SAND		
8'	2' 5/ft			SOFT TAN/BROWN CLAY, NO COARSE MATERIAL. SLIGHT FC STAINING			
10'	1.5' 5/ft			same + trace oil/grease.			
12'	1.5' 5/ft			SAME			
14'	1.5' 4 1/2			same (20%) 10% ANGULAR ROCK FRAGS. TO 1/4" ANGULAR. IN BOTTOM 6"			
16'	1.0' 12/ft			same.	MUSC		
18'				EOB 19.0'			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO.

MW-17

PROJECT NO. NAME

UNIV. ROAD

LOCATION

LAWRENCE, CALIF.

DRILLING CONTRACTOR/DRILLER

Mason - Engineering P. Bence

GEOLOGIST OFFICE

M. GEMMA / DANIEL

DRILLING EQUIPMENT METHOD

SIZE TYPE OF BIT

0.25" HSA

SAMPLING METHOD

2" SS

START FINISH DATE

2/22/96

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT. DIA.

2" SS

SCREEN:

TYPE

MAT. SS

LENGTH 10' DIA. 2

SLOT SIZE 20

ELEVATION OF: GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE
(FT. ABOVE M.S.L.)

DATE

REMARKS:

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
0'	1.5'	20/16		TAU/BAUN CLAY. FROZEN. NO COARSE MATERIAL	Frozen		
2'	.25'	42/16		BULK/BAUN LEO SILT SAND. GRAVEL PRESENT. Fe staining.	WET		
4'	1.0'	11/16		TAU/BAUN CLAY. SOFT. NO COARSE MATERIAL. Fe staining	DRY		
6'	1.25'	24/16		BULK/BAUN CLAY. TRACE ORGANICS. Fe staining. Bulk frags.			
8'	1.5'	11/16		BULK CLAY. 30% organics (wood), TRACE coarse material (gravel, gravel), Fe staining			
10'	0.5'	11/16		SOFT BULK CLAY. Fe staining. NO COARSE MAT'L. TRACE BULK GRAVEL FINE MAT'L.			
12'	0	7/16		SAME			
14'	0	8/16		NO RECOVERY	WET		
16'	0.5'	11/16		SAME. NO FINE MAT'L. TRACE ORGANICS (anyone good).			
18'	1.5'	14/16		TAU/BAUN CLAY. 4 BULK frags. TRACE ORGANICS (wood) NO COARSE MAT'L. Fe staining (slight)			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. MW-17		LOCATION LAN FILL CAP	
PROJECT NO. NAME 17410.0 (2020)			
DRILLING CONTRACTOR/DRILLER MARIA EMPIRE D. B. MCG			
GEOLOGIST OFFICE M. S. W. A. DANBURY			
DRILLING EQUIPMENT METHOD BSS MSA	SIZE TYPE OF BIT 6.25" MSA	SAMPLING METHOD 2" SS	START FINISH DAT 2/22/76
WELL INSTALLED? YES ☒ NO ☐	CASING MAT. DIA. 2" SS	SCREEN TYPE MAT. SS	LENGTH 10' DIA. 2" SLOT SIZE 20
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE 619.1	TOP OF WELL CASING 620'	TOP & BOTTOM SCREEN 605' - 595'
REMARKS: Elevation & datum relative to PRE-44 TOPS.		GW SURFACE -605'	
		DATE 2/72	

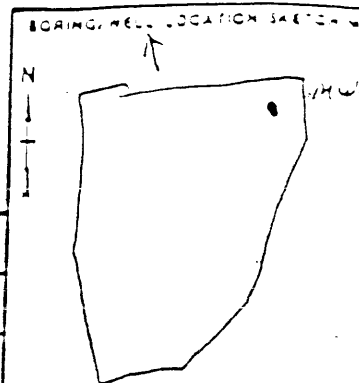


LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
2'	14/ft			(JAME) 6 1/2" dia. 1" diam. string. Trace of gravel no clean mat. 5' 1/2" string	WRT ↓		
23.0'	15/ft			23.0' sand base of sand. 1" diam. mat. 1/2"			
24.0'				E.A.D. 24.0'			
10'							
15'							



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44 SHELTER ROCK ROAD
DANBURY, CT 06810
(203) 796-5279



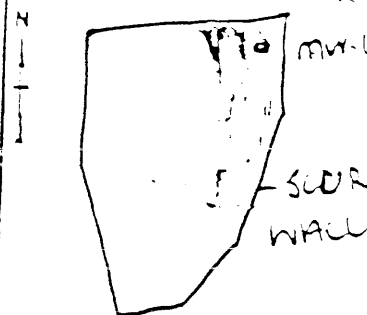
TEST BORING LOG				
BORING NO. NW-3				
PROJECT NO. NAME LIXTON ROAD		LOCATION CAP INTERIOR		
DRILLING CONTRACTOR/DRILLER MAXIM ENTERPRISE PHIL BENCE				
GEOLOGIST OFFICE Hartford/SHAW, DANBURY				
DRILLING EQUIPMENT METHOD CNC 35-		SIZE TYPE OF BIT 1 1/2 HSA		SAMPLING METHOD SS
WELL INSTALLED? YES ☒ NO ☐		CASING MAT. DIA. SS 2"	SCREEN TYPE MAT. SS	LENGTH 10' DIA. 2" SLOT SIZE 0.25
ELEVATION OF: (FT. ABOVE M.S.L.)		GROUND SURFACE 619.1	TOP OF WELL CASING 620.0	TOP & BOTTOM SCREEN 605.0-595.0
		GW SURFACE NA		DATE 2/14/96
REMARKS: ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP SURFACE				

LOG OF TEST BORING					WELL CONST.	GRAPHIC LITHO LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION		
	2' 32/FT			Tan clay, hard, no coarse, Dry		
	1' 10/FT			Tan clay, stiff Firm, no coarse, Dry		
5	1' 12/FT			Tan/gray clay, F.m, no coarse, Dry		
	2' 15/FT			Brown clay, stiff Firm, no coarse, Dry		
	1' 12/FT			Same		
10	1' 24/FT			Same w/trace ctyrics + SH bottom 6"		
	1' 27/FT			Same w/trace rock frags (angular, fine)		
15	1' 20/FT			Same (SH closer to 10%)		
	2' 34/FT			Same		
	1' 4/FT			Same but soft + moist		

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

44 SHELTER ROCK ROAD
DANBURY, CT 06810
(203) 796-5279

BORING WELL LOCATION MAP



BORING NO. 192-18		TEST BORING LOG	
PROJECT NO. NAME UNION ROAD		LOCATION INSIDE CAP AREA	
DRILLING CONTRACTOR/DRILLER MAXIM/EMPIRE P. GENCE			
GEOLOGIST OFFICE HANNA/SWARTZ DANBURY			
DRILLING EQUIPMENT METHOD (CAGE 850) HSA		SIZE TYPE OF BIT 6/4 HSA	SAMPLING METHOD SS
WELL INSTALLED? YES ☒ NO ☐		CASING MAT. DIA. 5 1/2"	SCREEN: TYPE MAT. SS LENGTH 10' DIA. 2" SLOT SIZE 0.25"
ELEVATION OF: GROUND SURFACE 619.1		TOP OF WELL CASING 620.0	TOP & BOTTOM SCREEN 605.0 - 595.0
(FT. ABOVE M.S.L.)		GW SURFACE NA	DATE 2/19/96
REMARKS: ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP SURFACE			

LOG OF TEST BORING				WELL CONST.	GRAPHIC LITHO LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	DESCRIPTION		
0					
1	9/4		Same, trace blue shale ch. ss		
2	3/4		Brown Sand, Clay, 25% organic VERY SOFT trace Rock Frags Bottom 6" V. soft wet brown Clay trace rock fragments - maybe largest ~ 1"		
10			EOB 24.5'		
15					
20					

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

BORING NO.
 MW-19

LOCATION
LANDFILL CAP

DRILLING CONTRACTOR/DRILLER
MAN - Enraf, P. Buis

U.S. GEOLOGIST, OFFICE
32 W. 4th St. 2A 1111

DRILLING EQUIPMENT. METHOD
855 H4

SIZE TYPE OF BIT
6.25" H34

SAMPLING METHOD
2" S.S

START. FINISH DATE
2/22/96

WELL INSTALLED? YES ☒ NO ☐ CASING MAT. DIA. 2" 55

SCREEN:
TYPE

MAT. 5)

LENGTH 10' DIA. 2" SLOT SIZE 20

ELEVATION OF: GROUND SURFACE
(FT. ABOVE M.S.L.) 618.5'

TOP OF WELL CASING TOP & BOTTOM SCREEN
@ 17.5' @ 605' - 595'

GW SURFACE
JAN.

DATE
2/22/16

REMARKS:

Examination of DEPTH RELATIVE TO PDE-CAP SURFACE

LOG OF TEST BORING

LOG OF TEST BORING				WELL CONST.	GRAPHIC UNIT LOG
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS
2'	1.25' 19/H	2'		VERY LOOSE SAND, (10' GAUGE). TAN/DARK. FINE/CLAY	Frozen
4'	1.0' 12/H			FIRM = 80.00/FT CUT. Fe ²⁺ BLUE STAINING. NO COARSE MATL.	WET.
5'	1.5' 15/H			SAME	
6'	1.5' 26/H	7.0'		SAME WITH TRACE 1/4" GAUGE (ROUND). V. HARD	WET.
8'	0.5' 62/H			TAN, DRY, HARD. CLAY (10' GAUGE). Fe ²⁺ STAINING. TRACE GAUGE PENETRATION. SOME BLUE COARSE MATL. & STAINING	FINE SAND
10'	1.75' 24/H	11'		SAME, FIRM, DRY CLAY. TRACE COARSE. ANGULAR SUB-ROUND GRAVEL. NO COARSE MATL.	
12'	1.0' 14/H	12'		SAME, WET, SILTY SAND. SOME COARSE GRAVEL. PATTEN. COAR. SAND GRAVEL	WET COARSE SAND
14'	1.0' 19/H			SAME. SOME SILTY SAND. SOME COARSE GRAVEL. PATTEN. COAR. SAND GRAVEL	
16'	1.0' 6/H	16'		SOFT, WET, CLAY/CLAY CUT. SOME MOTTLED FROM ORGANIC. TRACE ORGANIC MATL. Fe ²⁺ STAINING. NO COARSE MATL.	
18'	1.25' 11/H	18.5'		SAME BUT TAN LOCUS AND HEAVY SPECKLES. NO COARSE MATL. Fe ²⁺ STAINING FIRM	E.O.B. 220' →

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO.
MW-20

PROJECT NO.. NAME

UNION RD

LOCATION

INTERIOR CAP

DRILLING CONTRACTOR/DRILLER

MAXIM/EMPIRE

BENCE/BOITACKER

GEOLOGIST, OFFICE

HANCON/SWARTZ

DANBURY

DRILLING EQUIPMENT, METHOD

CME 850

HSA

SIZE, TYPE OF BIT

6 1/4"

SAMPLING METHOD

SS

START, FINISH DATE

2/2/96

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT., DIA.

4 7"

SCREEN:

TYPE

MAT. SS

LENGTH 10' DIA. 7"

SLOT SIZE 0.20

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

624.6

627.0

607.0 - 597.0

NA

2/2/96

REMARKS:

ELEVATION AND DEPTHS RELATIVE TO PRE-CAD SURFACE

LOG OF TEST BORING

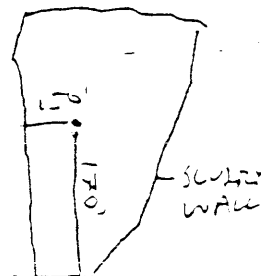
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
1.5	8			Brown Clay; NO COARSE, FROZEN, BOTTOM 4" Black w/15% ORGANICS	FROZEN		
1.0	26			FIRM Brown Clay trace organics + silt	WET		
1.5	19			SAME BOTTOM 12" Black Fine granular material w/charcoal odor, 10% ORGANICS 10% "Fiber BOARDS"	WET		
2'	14			Black Fine Clay 10% ORGANICS TRACE 1/2" Rock Fraggs	MOIST		
1.5	24			BOTTOM 4" Fine tan Clay, NO COARSE First 6" Same w/organics 1" Gray soft clay	WET		
5"	16			Next 6" Red Sand w/Black clinders same Clay Next 6" WHITE clinky ash w/30% Wood			
0.5'	8			Soft tan Clay, NO COARSE Fine sand/silt red w/Black stringy 10% organics	WET		
2	8			Fine Black Sand Trace red fine sand	WET		
1.5	3			Same trace organics	WET		
1.0	3			Brown Clay + SAND w/Black stringy, strong Petroleum ODOR, sheering, 20% Rock Fraggs upto 0.5"	WET		

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. <u>MW-20</u>		LOCATION <u>INTERIOR OF CAD</u>	
PROJECT NO. NAME <u>UNION ROAD</u>			
DRILLING CONTRACTOR/DRILLER <u>MAXIM / EMERLE</u>		<u>BEHNE</u>	
GEOLOGIST OFFICE <u>HANCOCK / SWAN</u>		<u>DANBURY</u>	
DRILLING EQUIPMENT METHOD <u>CME 850</u>	SIZE TYPE OF BIT <u>HSA</u>	SAMPLING METHOD <u>SS</u>	START FINISH DATE <u>2/21/96</u>
WELL INSTALLED? YES ☒ NO ☐	CASING MAT. DIA. <u>SS 2"</u>	SCREEN: TYPE <u>SS</u>	LENGTH <u>10'</u> DIA. <u>2"</u> SLOT SIZE <u>0-10</u>
ELEVATION OF: GROUND SURFACE <u>624.6</u>	TOP OF WELL CASING <u>624.6</u>	TOP & BOTTOM SCREEN <u>627.0</u>	GW SURFACE <u>607.0-597.0</u>
REMARKS: <u>ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAD GRADE</u>			DATE <u>2/21/96</u>



LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
0	3			<u>NO RECORD</u>			
2.0	8			<u>SOME W/TKS UP TO 1.5" GRADES INTO FINER MATERIAL w/ 50% ORGANICS</u>			
2.5	7			<u>BOTTOM 3" BLACK LAY, NO COARSE, TRACE ORGANIC</u>			
				<u>GRAY CLAY, TRACE 1/8" COARSE. NO COAR, NO PETROLEUM</u>			
	6			<u>SOME NO ROCK FRGS</u>			
				<u>EOB 29.0'</u>			

COARSE SAND

TEST BORING LOG

BORING NO.

MJ-21

PROJECT NO. NAME

Union Road

LOCATION

LANOAH CAP

DRILLING CONTRACTOR/DRILLER

MAXIM-SPINIZG

GEOLOGIST, OFFICE

SEWATA/HANLON DANIEL

DRILLING EQUIPMENT, METHOD

QSB HSA

SIZE, TYPE OF BIT

6.25" HSA

SAMPLING METHOD

2" SS

START, FINISH DATE

2/22/96

WELL INSTALLED?

YES ☒

NO ☐

CASING MAT. DIA.

2" SS

SCREEN:

TYPE

MAT. S.S.

LENGTH 10' DIA. 2"

SLOT SIZE 20

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

623.4

625'

595' - 605'

UNK

2/22/96

REMARKS:

All elevations & depths relative to PRE-CAP LAND

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
2'	41/4			Brown fine sand.	fine		
2'				Black clay and sand. Clay full maximum trace of organic. Hard/very hard.			
1.25'	UNK.			sand	As hammered in SS		
4'					blow. use max. 24" hammer.		
5'	9/4			SAME 1/2 clay/sand clay. Fe staining. 10-15% organic.	021		
6'				Black clay clumps present.			
1'	50/4			Light tan, dry, sand. Clay. No frags. Any max 1/4 -			
5'				Black sand red. Lower fine material. Dry. Tan frags. Red frags 1" long.			
1'	7/4			Medium sand. Sand. Properly graded. Dry.			
10'				Sand & gravel (1/4") size. Lower frags. rounded.			
				Dark sand. Fine sand. Trace organic. 025.			
12.5'	9/4			Dark sand. 25% sand. No clumps & material. Dry.			
12'				Fe staining			
0'	15/4						
15'	5/4			sand			
15'							
15'	9/4			Red silty sand. 20% gravel. Red mat.	021.5		
15'							
	4/4			sand			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

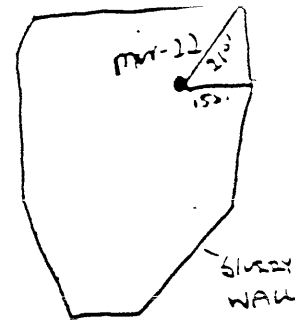
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

A hand-drawn sketch of a polygon, possibly a field or a piece of land. The polygon has several vertices. One vertex is labeled 'mw-21'. Another vertex is labeled '175'. A third vertex is labeled '270'. There is a small circle or dot near the '175' label. The sketch is drawn with a thick black line.A hand-drawn sketch of a polygon, possibly a field or a piece of land. The polygon has several vertices. One vertex is labeled 'mw-21'. Another vertex is labeled '175'. A third vertex is labeled '270'. There is a small circle or dot near the '175' label. The sketch is drawn with a thick black line.

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. NW-22		LOCATION FINDING LANDFILL CAP	
PROJECT NO. NAME UNION ROAD		DRILLING CONTRACTOR/DRILLER MAXIM EMPINE D. DENNIS	
GEOLOGIST OFFICE HAWKINS/STANLEY		GEOLOGIST DANIEL	
DRILLING EQUIPMENT METHOD CME 854, HSA		SIZE TYPE OF BIT 6.25" HSA	SAMPLING METHOD SS
WELL INSTALLED? YES ☒ NO ☐		CASING MAT./DIA. 2" SS	SCREEN: TYPE 10 slot MAT. SS LENGTH 10' DIA. 2" SLOT SIZE 10
ELEVATION OF: GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE		DATE 2/20/96	
(FT. ABOVE M.S.L.) 623.4 626.40 606.0' - 596.0'		NA	
REMARKS: ~2' below 20' above current surface PRE-CAP SURFACE			



LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
2'	13/4			TAN CLAY, WET. FIRM. BOTTOM 6" POTENTIAL, B-LINK STAINING, 20% organic COMIC MAT'L			
1'	5/4			SAME. NOT AS COARSE			
4'				SAME			
5'	1.5'	12/4		RED FINE/MED. SAND. NO FINESS. HARDLY 4200G			
6'				SAME			
8'	1'	10/4		CLEAR FILL MATERIAL. COARSE BLOCK MATERIAL. RICE BEANS TO 1/2"			
10'	1'	5/4		SAME w/ 1/2" ROCKS WALK-LIKE MAT'L			
12'	1'	4/4		SAME			
14'	1'	3/4		SAME w/ wood waste & Fe staining			
15'	1'	2/4		SAME			
16'	1'	2/4		SAME			
18'	1'	6/4		SAME w/ brick frags.			

Fine sand
Coarse sand

TEST BORING LOG

BORING NO.

MW-22

PROJECT NO.. NAME

Union Road

LOCATION

Inside CAP

DRILLING CONTRACTOR/DRILLER

MAXIM-ENGINE

P. JENCK

GEOLOGIST, OFFICE

Hanson / SBRWPA OAKLAND

DRILLING EQUIPMENT, METHOD

CME 835

SIZE, TYPE OF BIT

6.25" HSA

SAMPLING METHOD

SS

START, FINISH DATE

2/20/96

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT. DIA.

2" SS

SCREEN:

TYPE

MAT. SS

LENGTH 10'

DIA. 2"

SLOT SIZE 10

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

DATE

(FT. ABOVE M.S.L.)

623.4

626.40

606'

596'

NA

2/20/96

REMARKS:

PRE-CAP SURFACE

LOG OF TEST BORING

WELL CONST.

GRAPHIC
LITHO LOG

DEPTH (FT)

SAMPLE NO. AND TYPE

RECOVERY (FT)

PENETRATION RESIST-
ANCE BLOWS/FT

DESCRIPTION

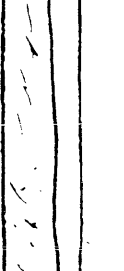
REMARKS

22	6"	15/16	Angular gravelly mat'l. 18% fine sand & silt. Trace clay. 2" auger hole.		
24	6"	15/16	SAME		
5	1'	11/16	CRS. GRAY, FINE, TIGHT CLAY. LOTS OF MUD. COARSE MAY.	Coarse sand →	
7	2'	9/16	SAME		
10			EOB 28.0'		
15					

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG			
BORING NO. <u>235</u>			
PROJECT NO. NAME <u>Union Road 7035-200</u>	LOCATION <u>Buffalo NY</u>		
DRILLING CONTRACTOR/DRILLER <u>Maxim</u>			
GEOLOGIST. OFFICE <u>JOHN J ZACHER JR</u>			
DRILLING EQUIPMENT. METHOD <u>HSA</u>	SIZE TYPE OF BIT <u>1 1/2" HSA</u>	SAMPLING METHOD <u>SPLIT SPOON</u>	START. FINISH DA <u>1-6-97</u>
WELL INSTALLED? ☒ YES ☐ NO ☐	CASING MAT./DIA. <u>STAINLESS STEEL 12"</u>	SCREEN: TYPE <u>SLOT</u> MAT. <u>STAINLESS</u>	LENGTH <u>10'</u> DIA. <u>2"</u> SLOT SIZE <u>0.025"</u>
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE	
REMARKS:			

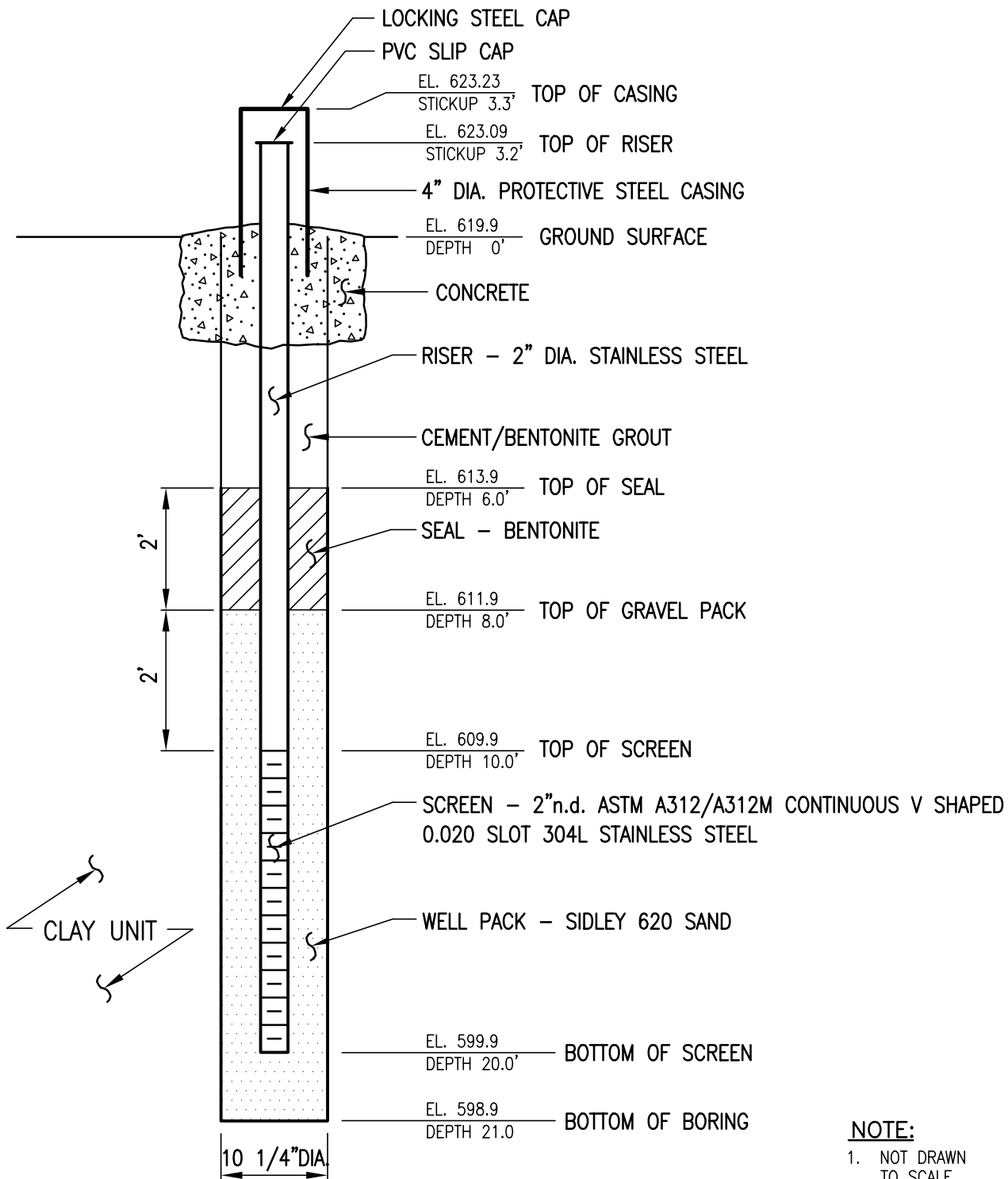
LOG OF TEST BORING					WELL CONST.	GRAPHIC ELEVATION	
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST- ANCE BLOWS/FT	DESCRIPTION			REMARKS
				SAMPLING STARTS 2' BG.			
2'	-	4		0-4 TUFFIL AND SAND			
4'	15'	9		4-15 RED/BROWN CLAY	STIFF - DRY		
4'	"	4		15-18 RED/BROWN CLAY, SOME CGG.	STIFF TAKE H2O		
5'	"	4		0-45 RED/BROWN CLAY	STIFF, TAKE H2O		
6'	21	6		15-21 SOME MOISTURE			
6'	"	8		0-10 RED/BROWN CLAY	MED STIFF DAMP		
8'	24	4		10-14 RED/BROWN - GREY CLAY	MED STIFF DAMP		
8'	"	2		14-24 GREY CLAY	MED STIFF, DAMP		
10'	12	2		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT, WET		
10'	"	2		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT WET		
12'	17	4		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT WET		
12'	"	2		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT, WET		
14'	8"	4		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT, WET		
14'	"	4		GREY CLAY, LITTLE SAND, LITTLE RAS	SOFT, WET		
16'	10"	4					

BOB 16

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

MW-10S

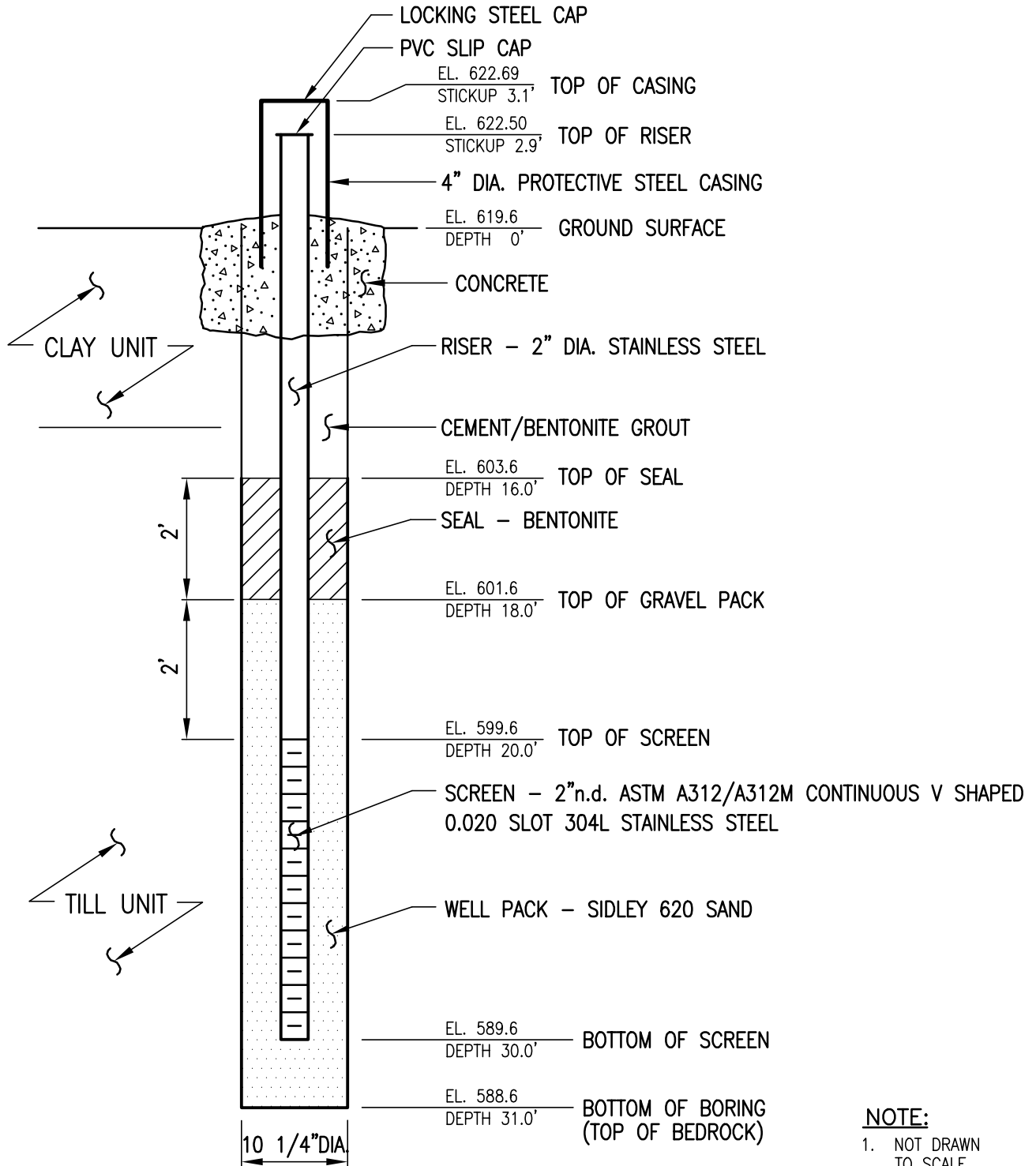


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-10S

MW-10M

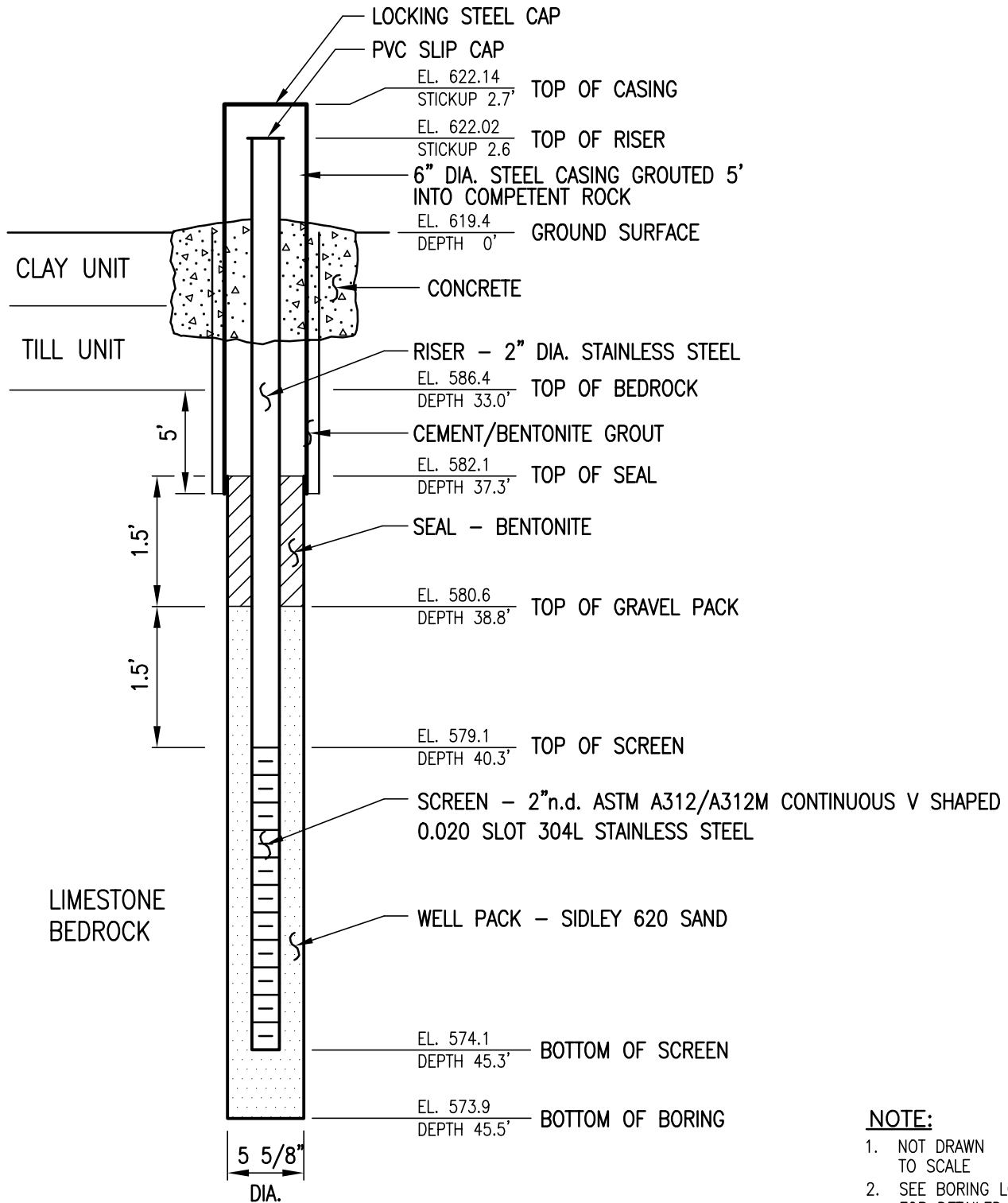


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-10M

MW-10D

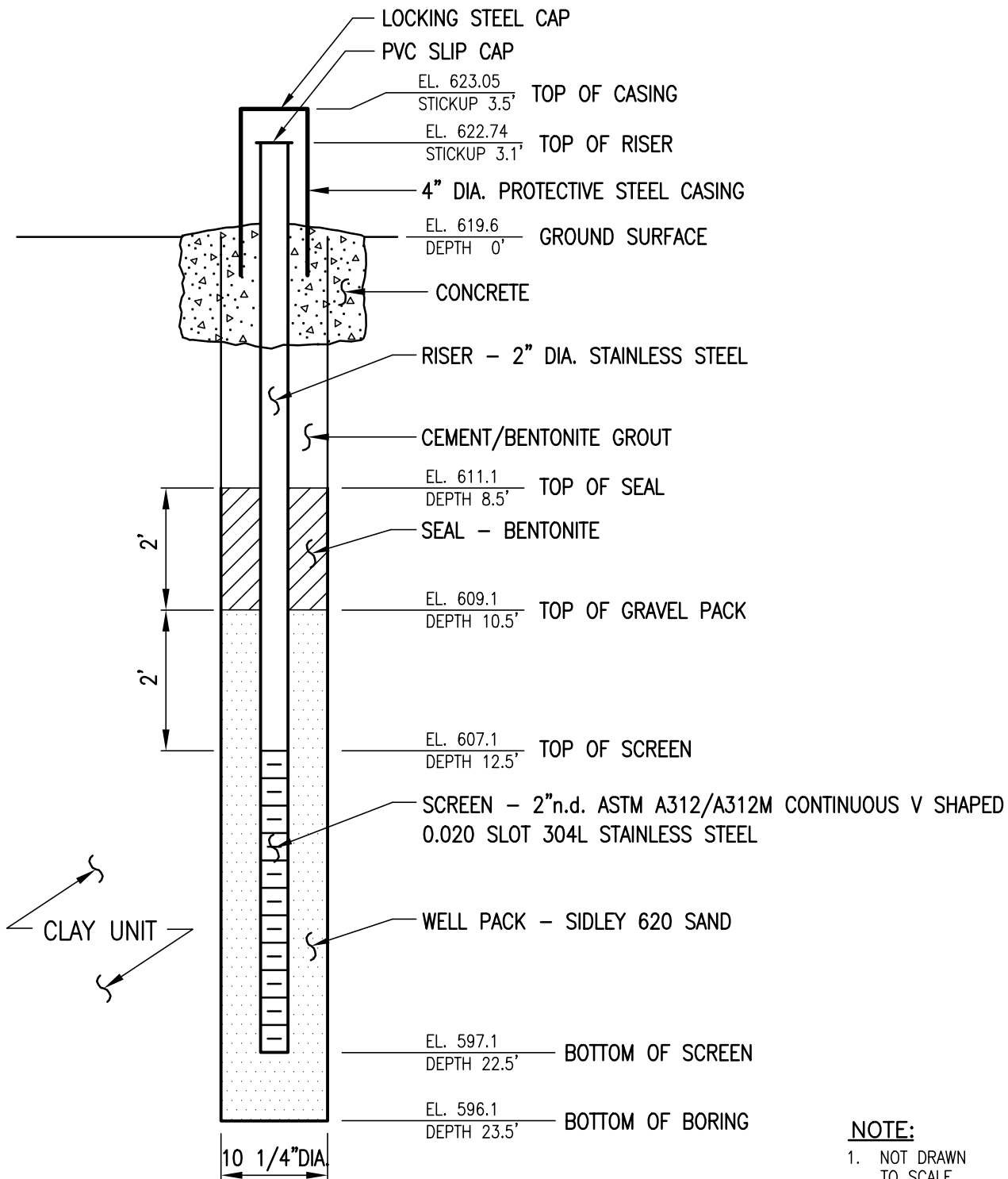


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	BEDROCK GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK: FIGURE # MW-10D

MW-11S

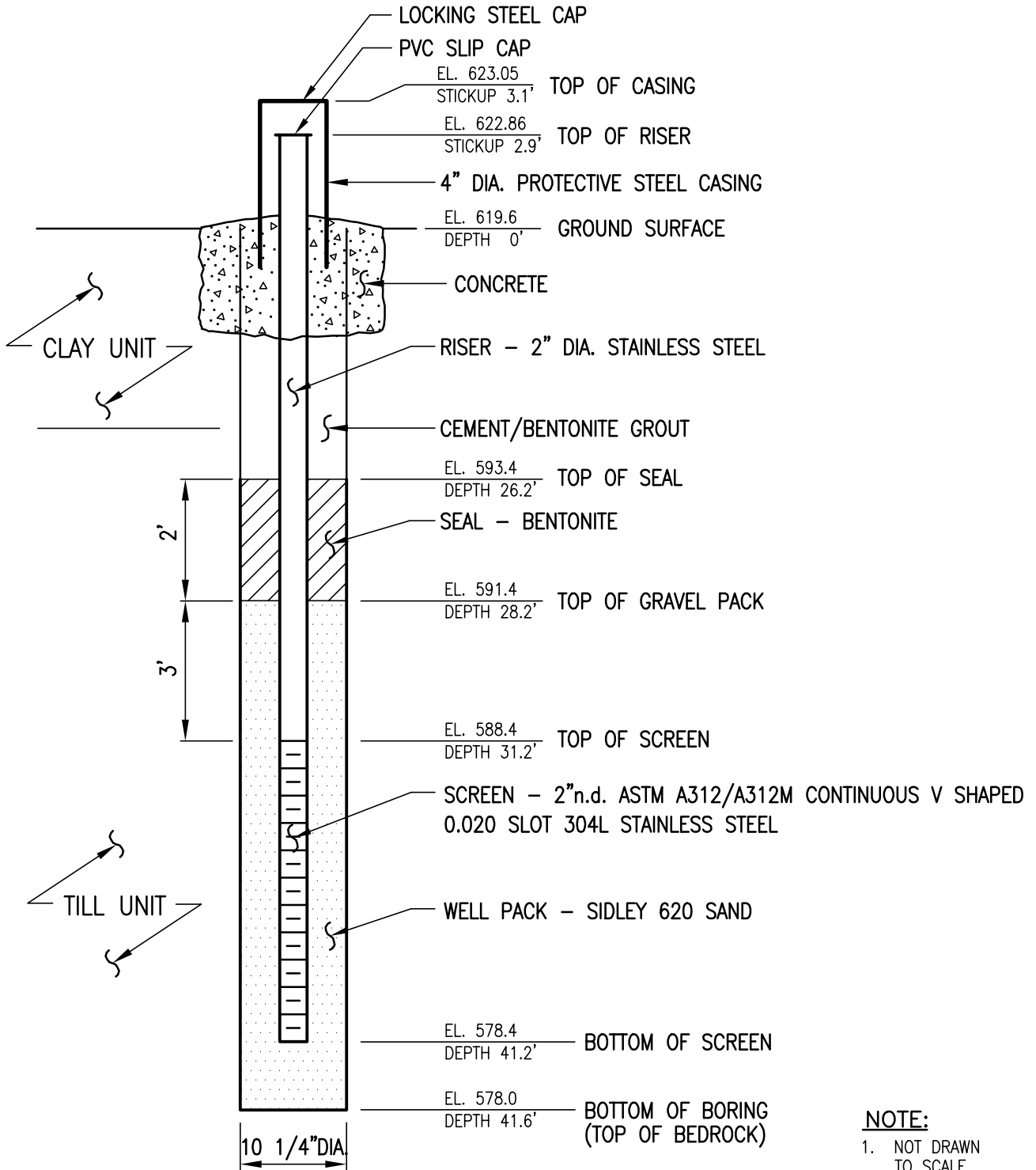


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-11S

MW-11M

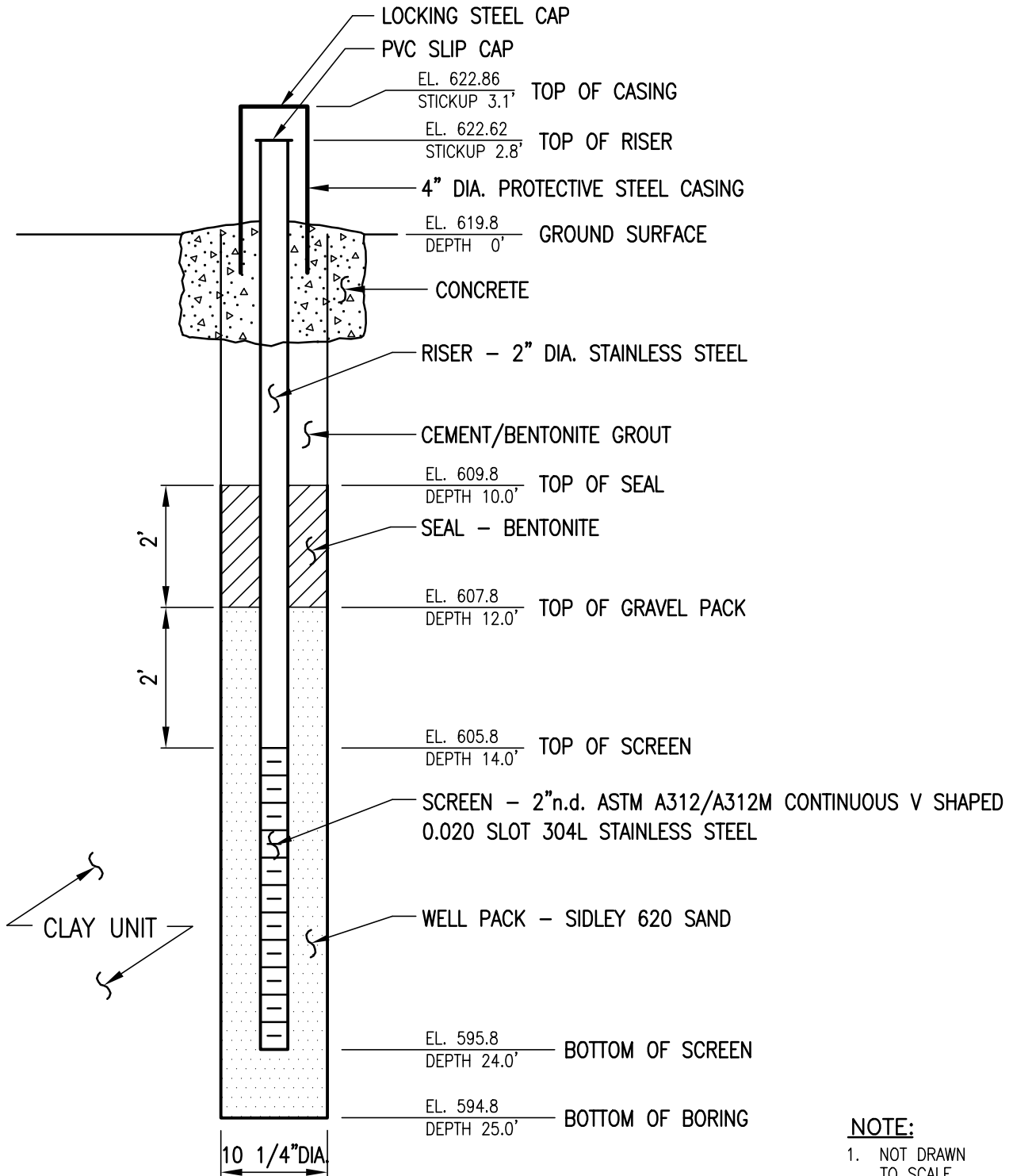


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-11M

MW-12S

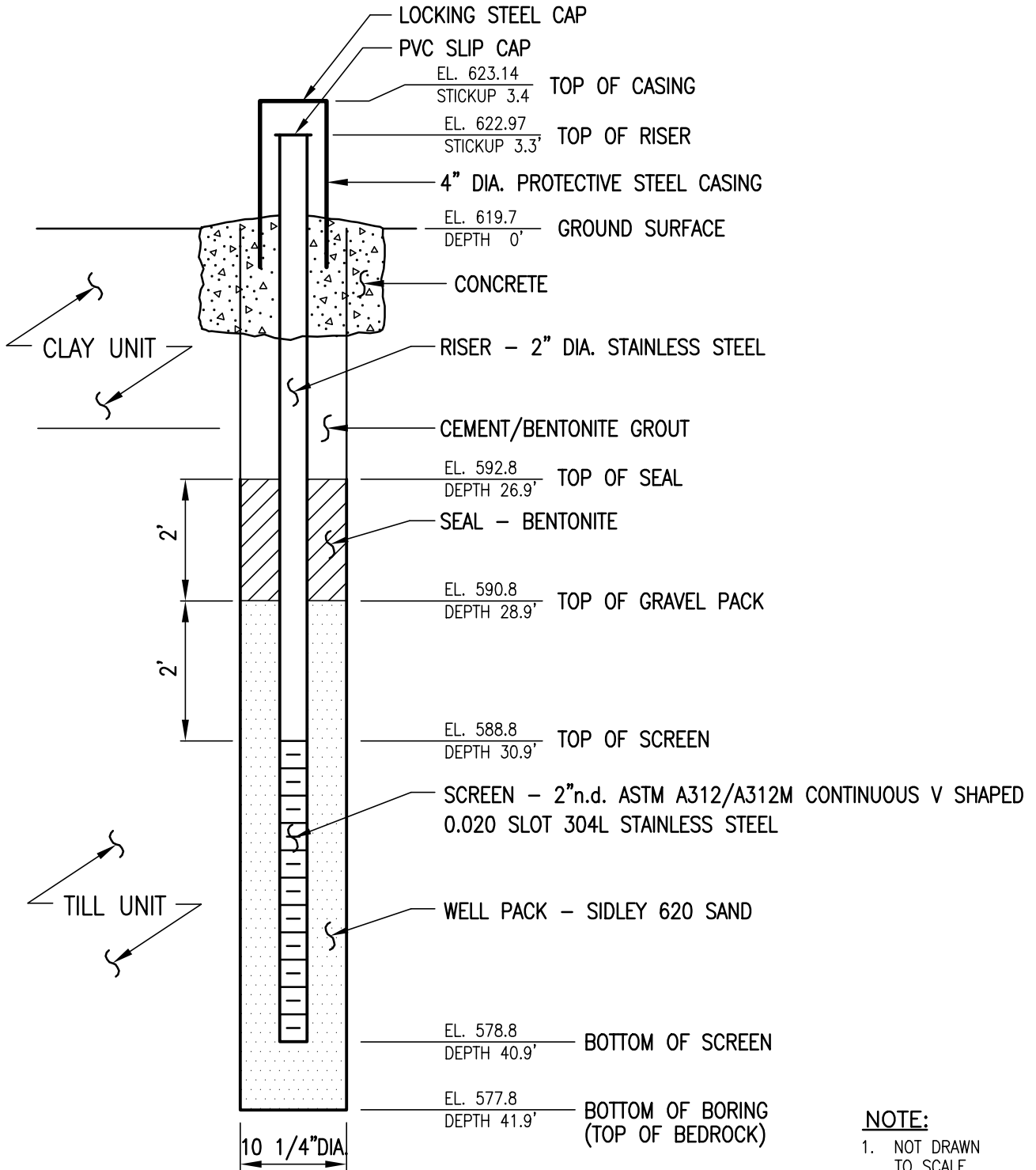


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011-200	
NO.	DATE				FILENAME: 2035200A	SCALE: NTS
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL		BY: AD	CK:
					FIGURE # MW-12S	

MW-12M

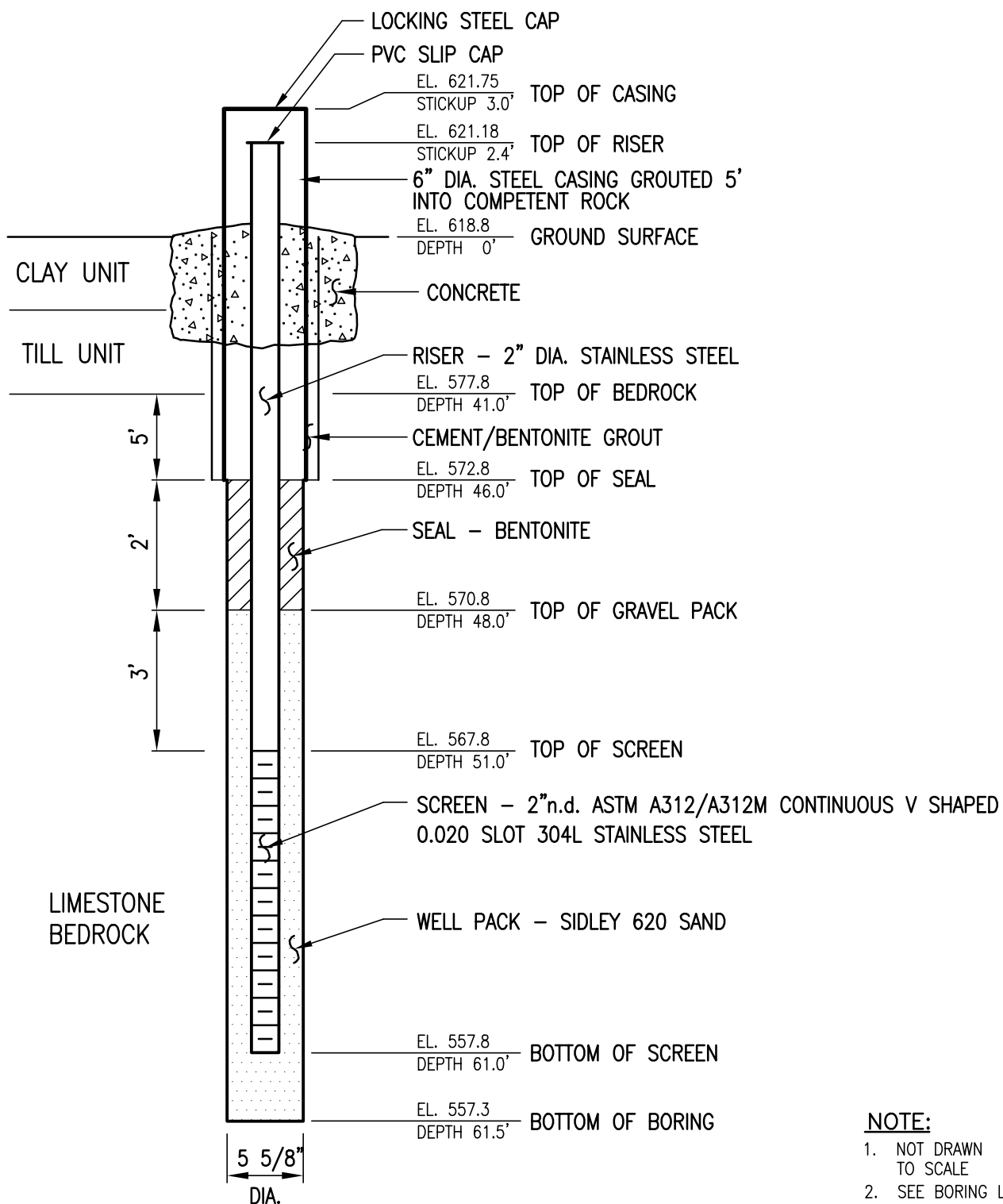


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-12M

MW-12D

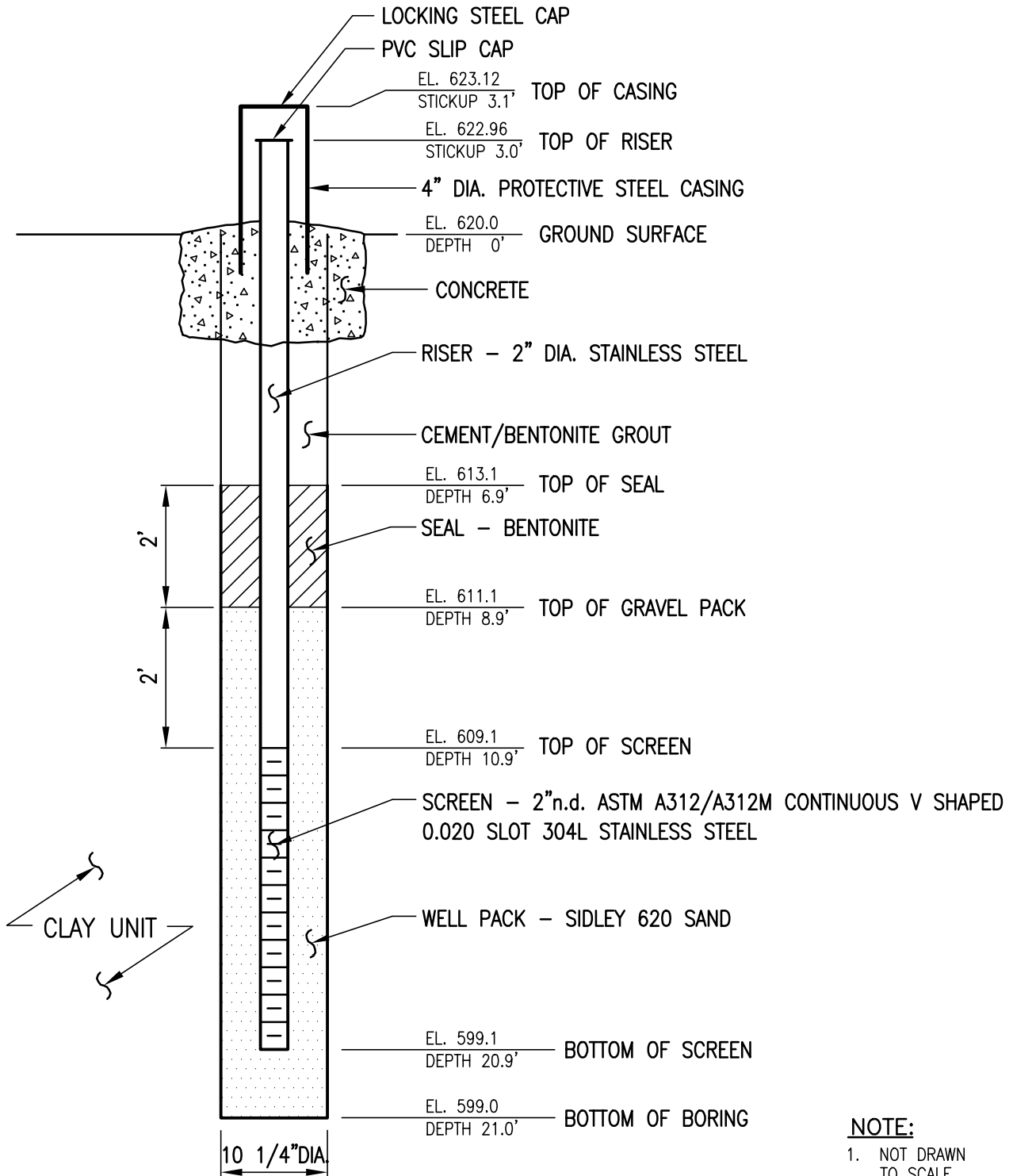


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	BEDROCK GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK: FIGURE # MW-12D

MW-13S

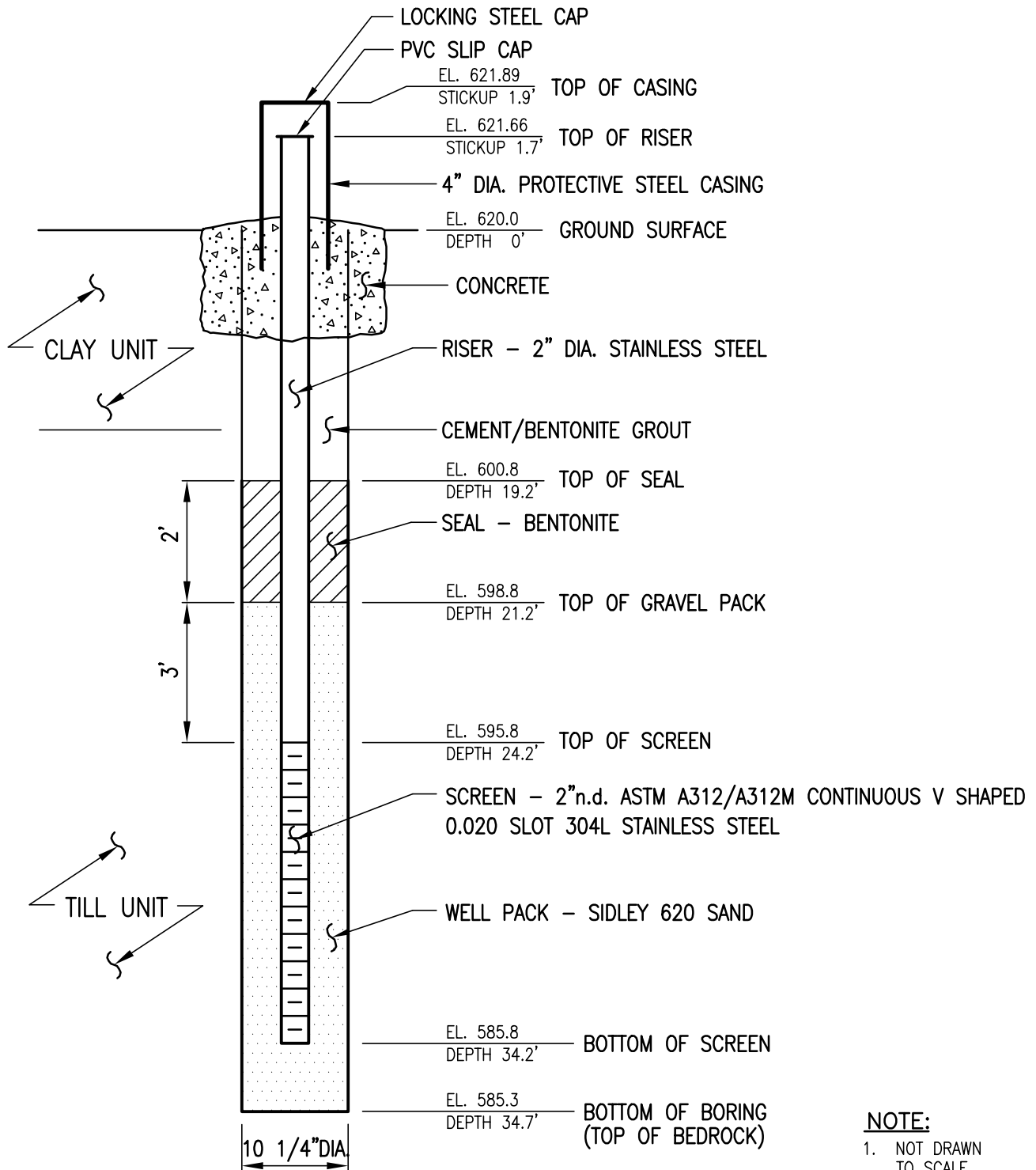


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011-200	
NO.	DATE				FILENAME: 2035200A	SCALE: NTS
DRAWING		SHALLOW GROUNDWATER MONITORING WELL DETAIL			BY: AD	CK:
					FIGURE # MW-13S	

MW-13M

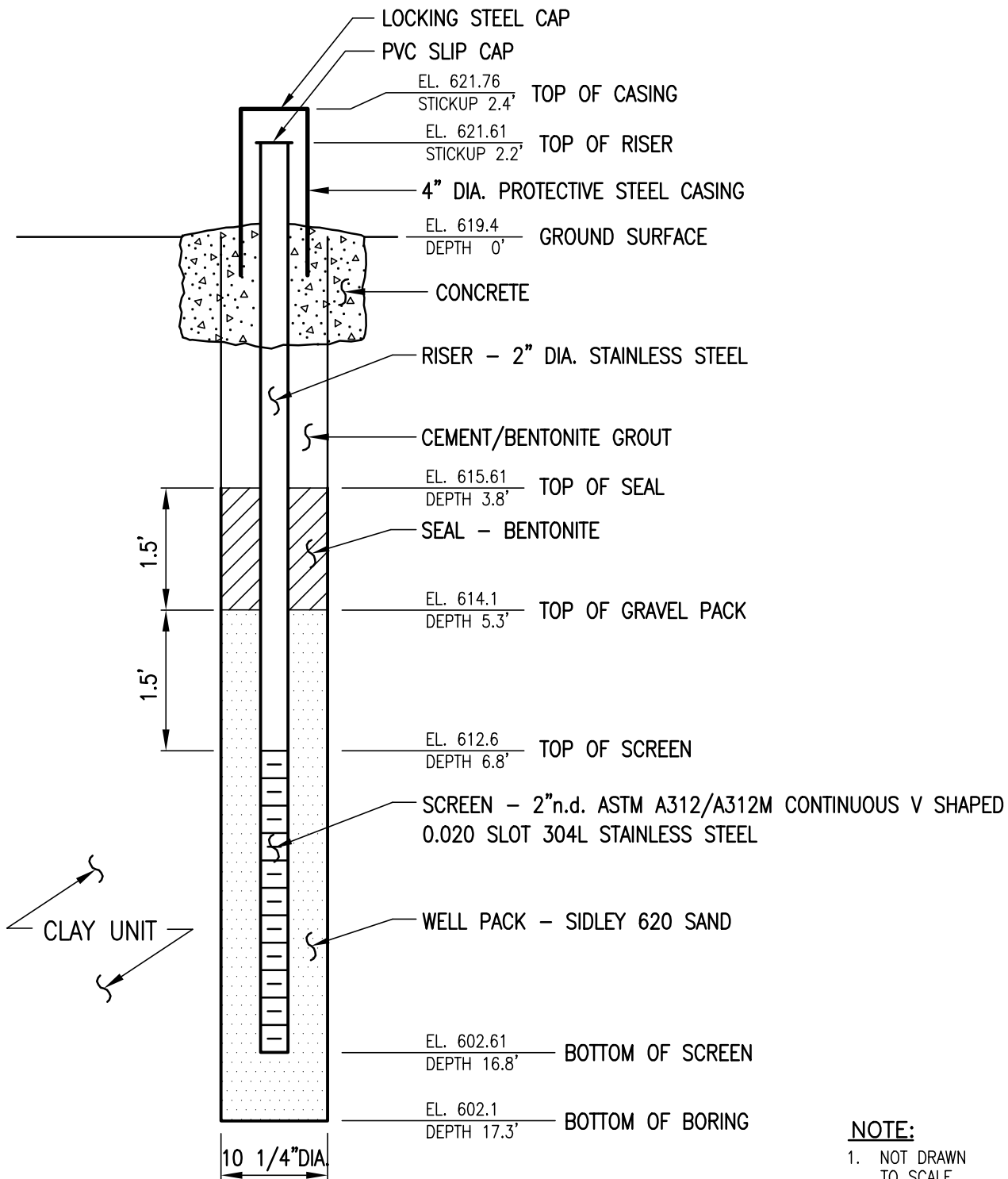


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK:	FIGURE # MW-13M

MW-14S

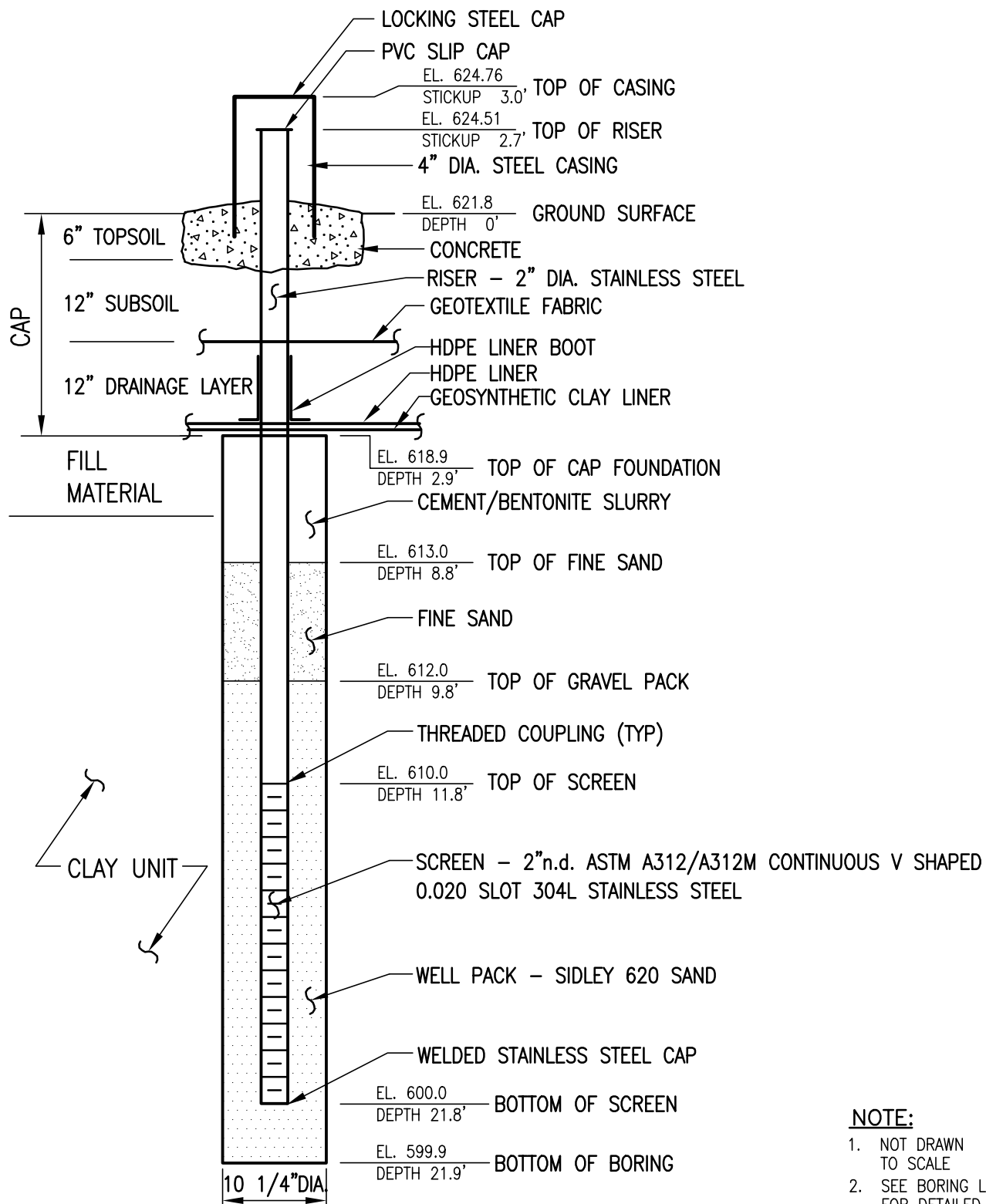


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-14S

MW-16

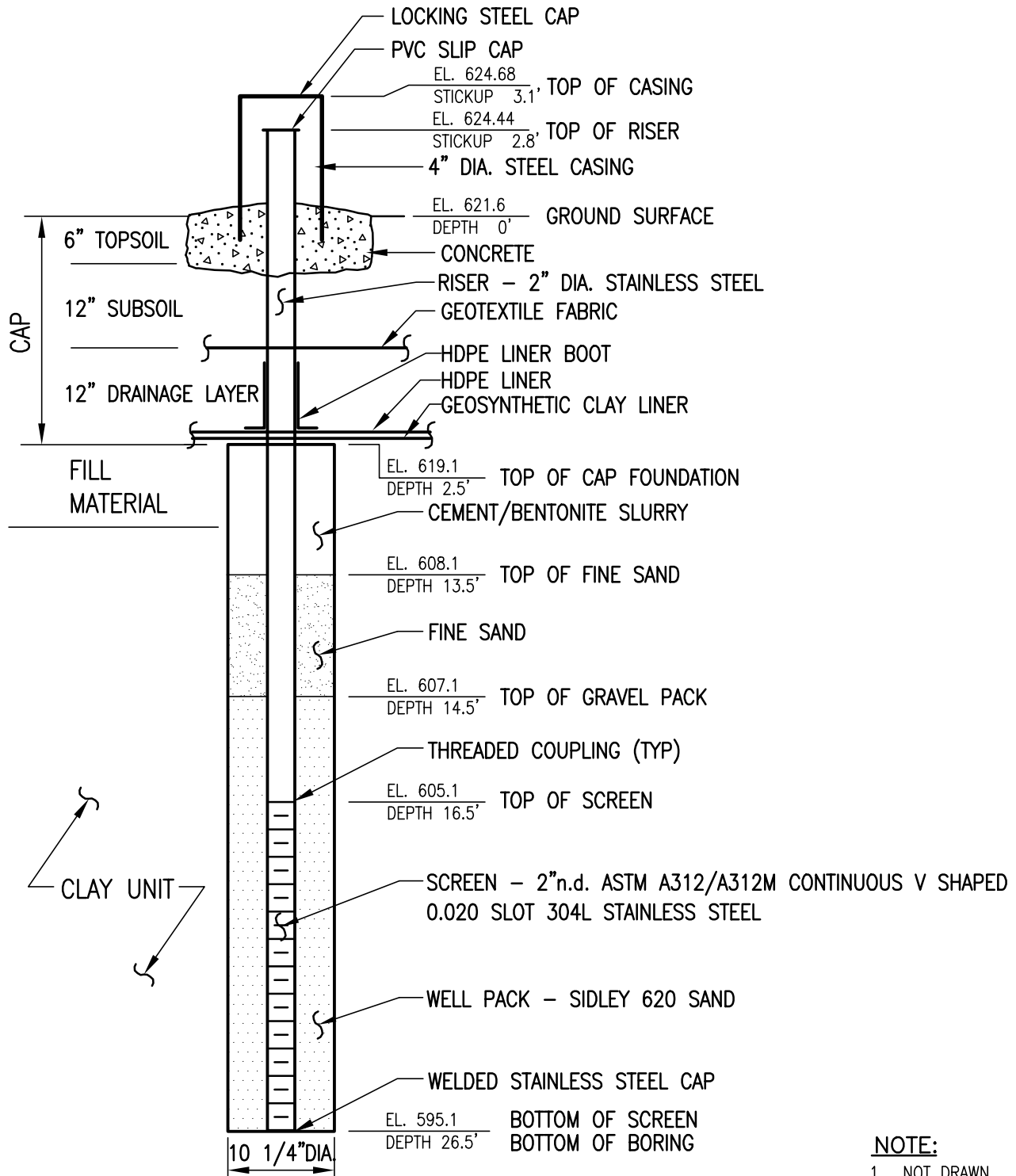


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK:
					FIGURE # MW-16

MW-17

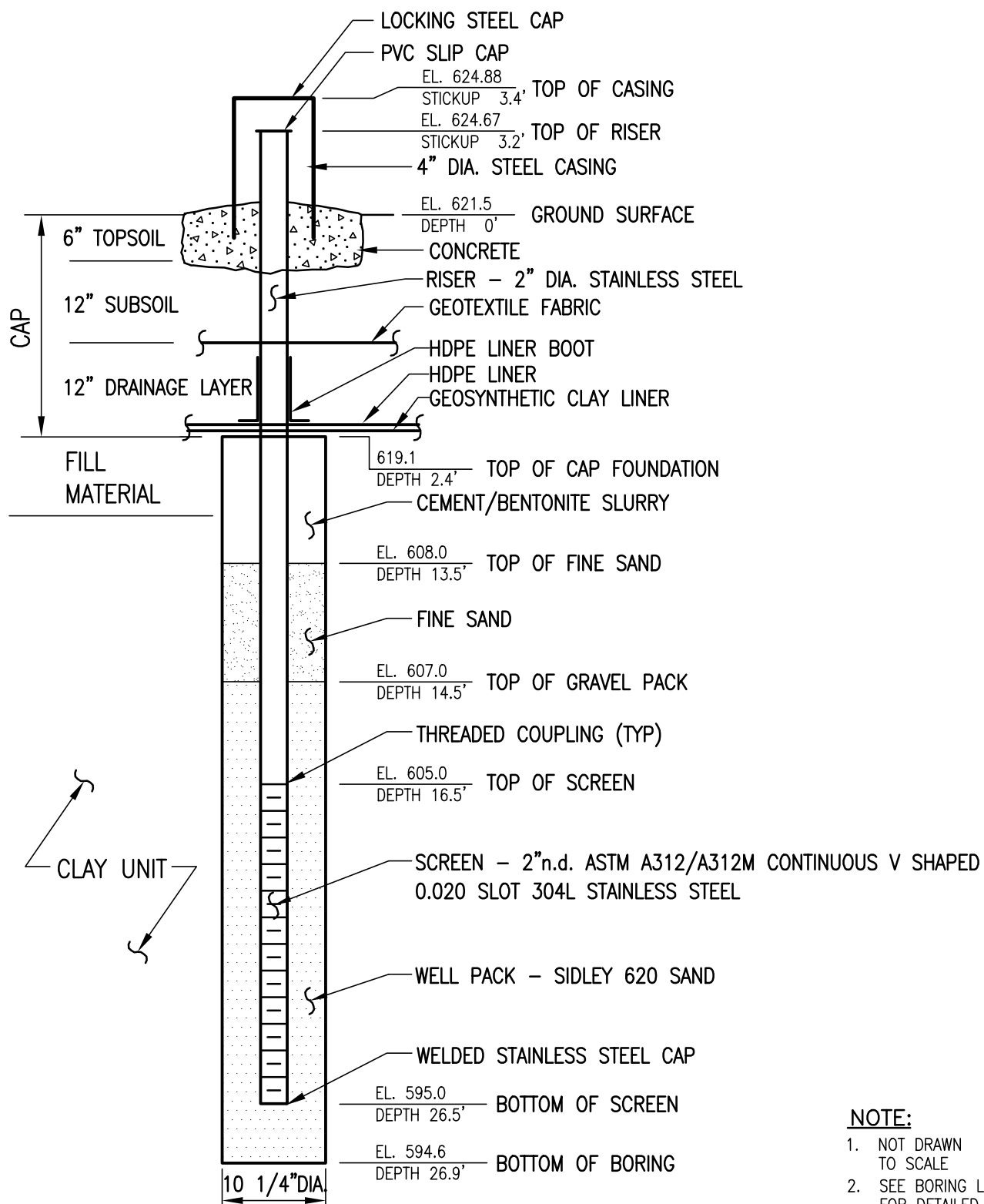


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-17

MW-18

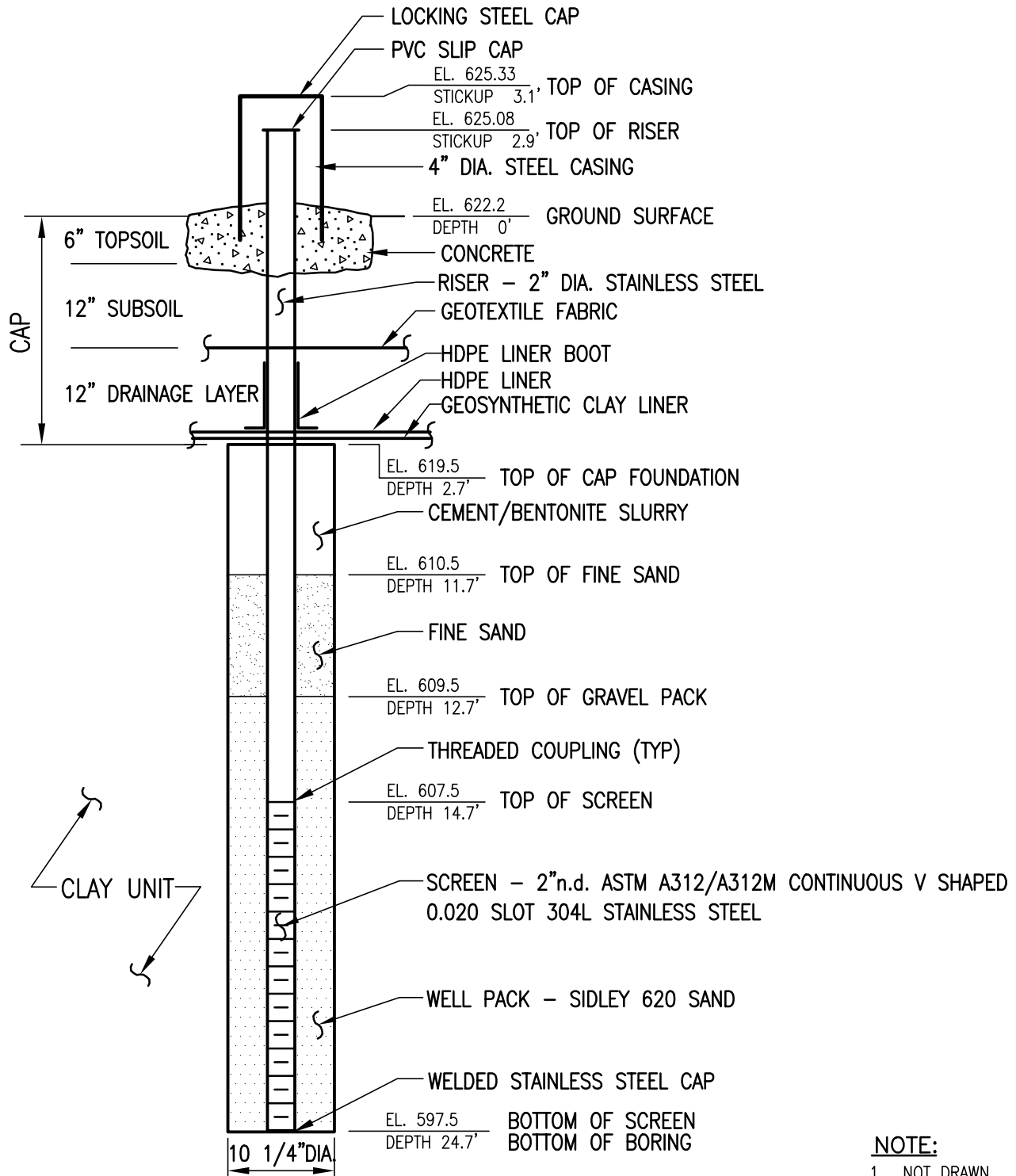


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-18

MW-19

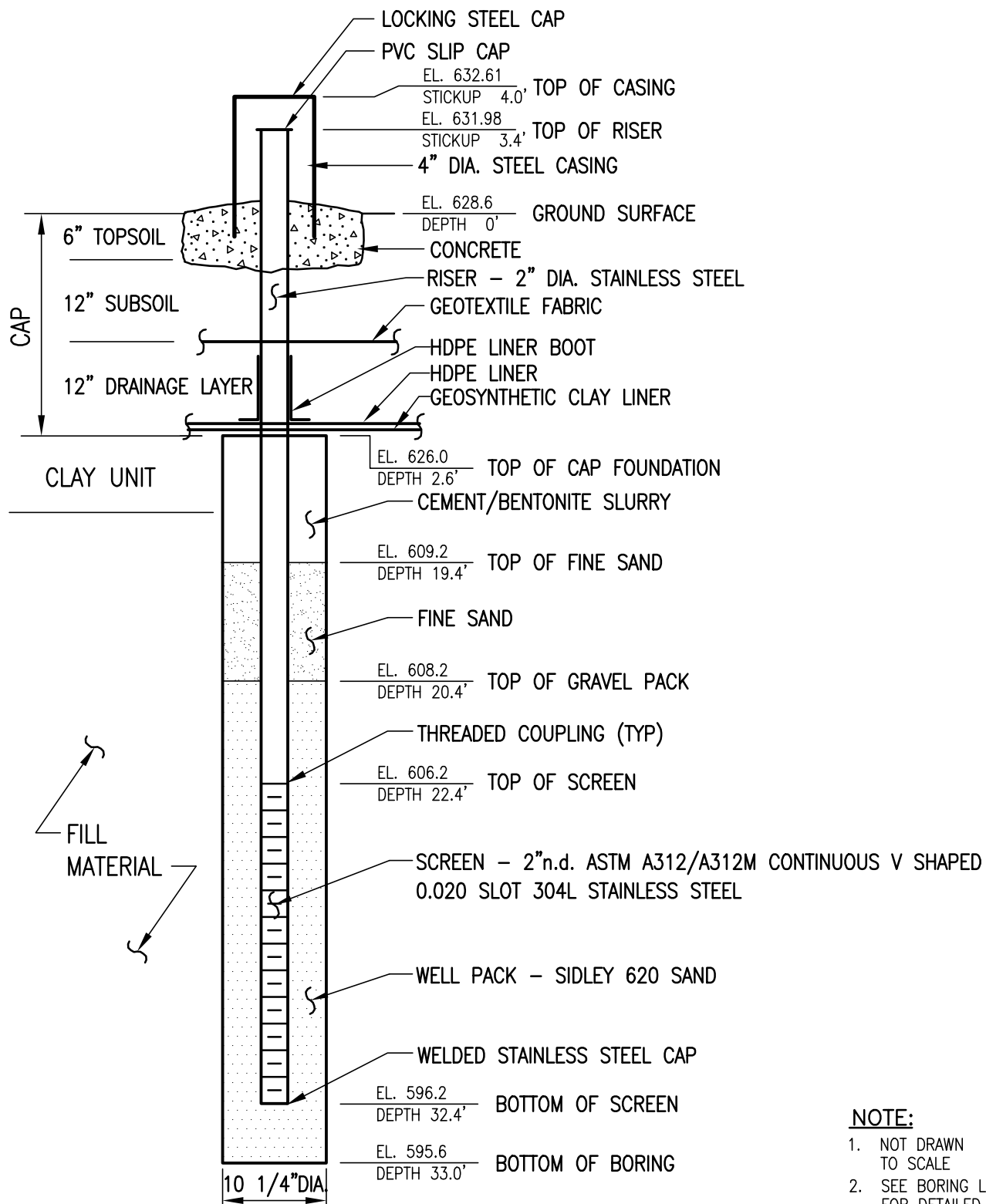


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	SCALE: NTS BY: AD DATE: 1/15/02 CK:	FILENAME: 2035200A FIGURE # MW-19

MW-20

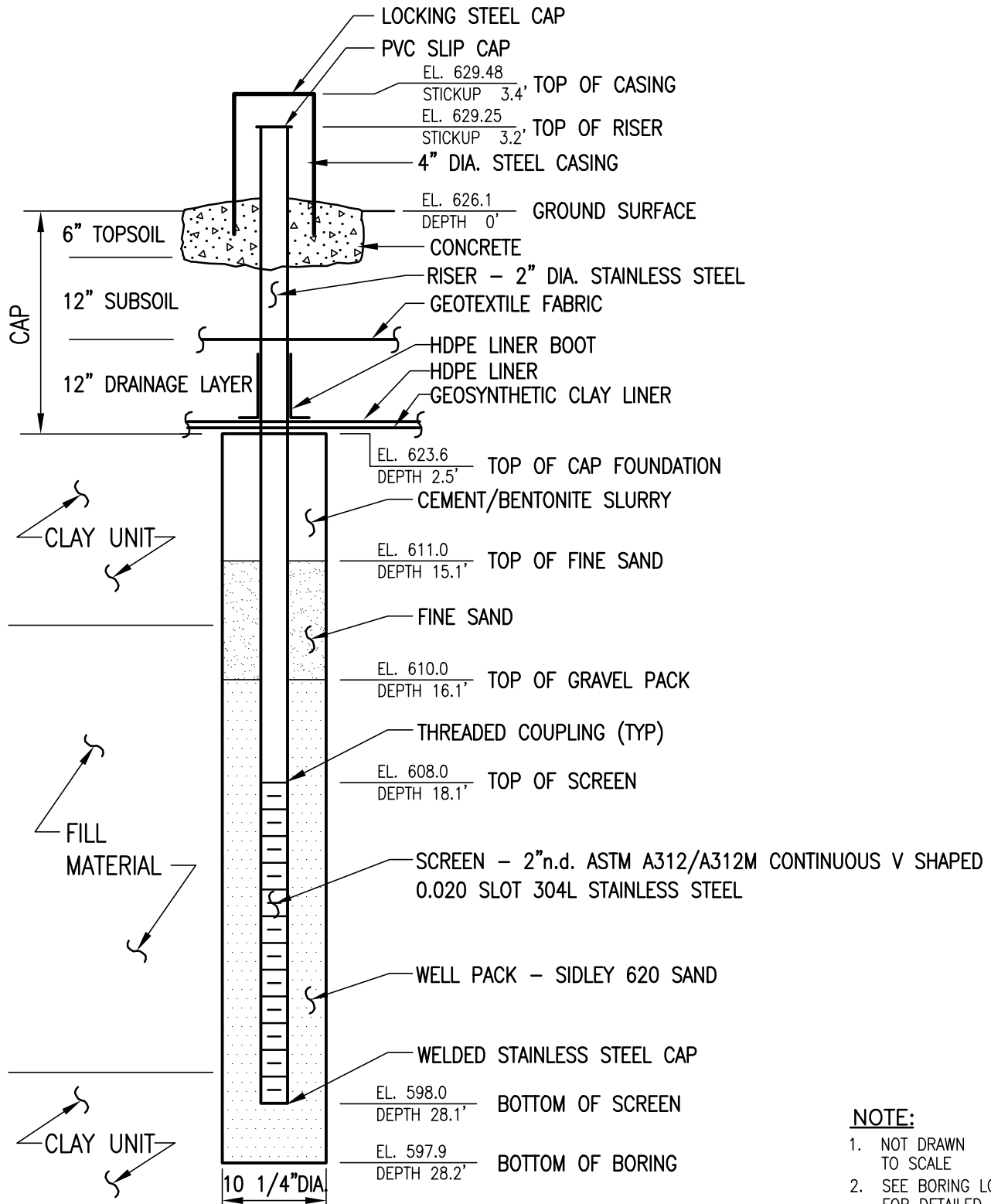


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-20

MW-21

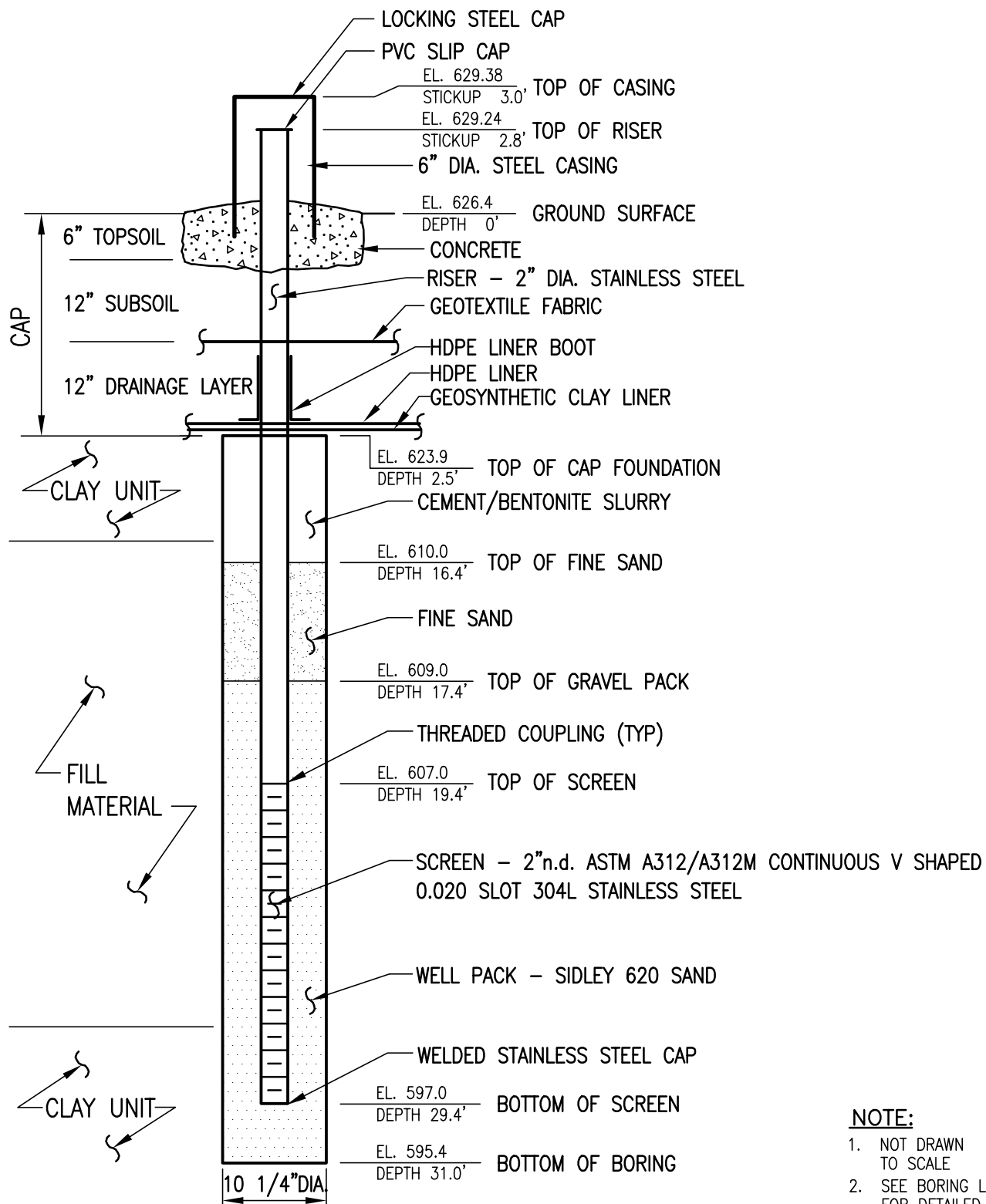


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	 Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011-200	
NO.	DATE				FILENAME: 2035200A	
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL		SCALE: NTS	DATE: 1/15/02
					BY: AD	CK:
					FIGURE # MW-21	

MW-22

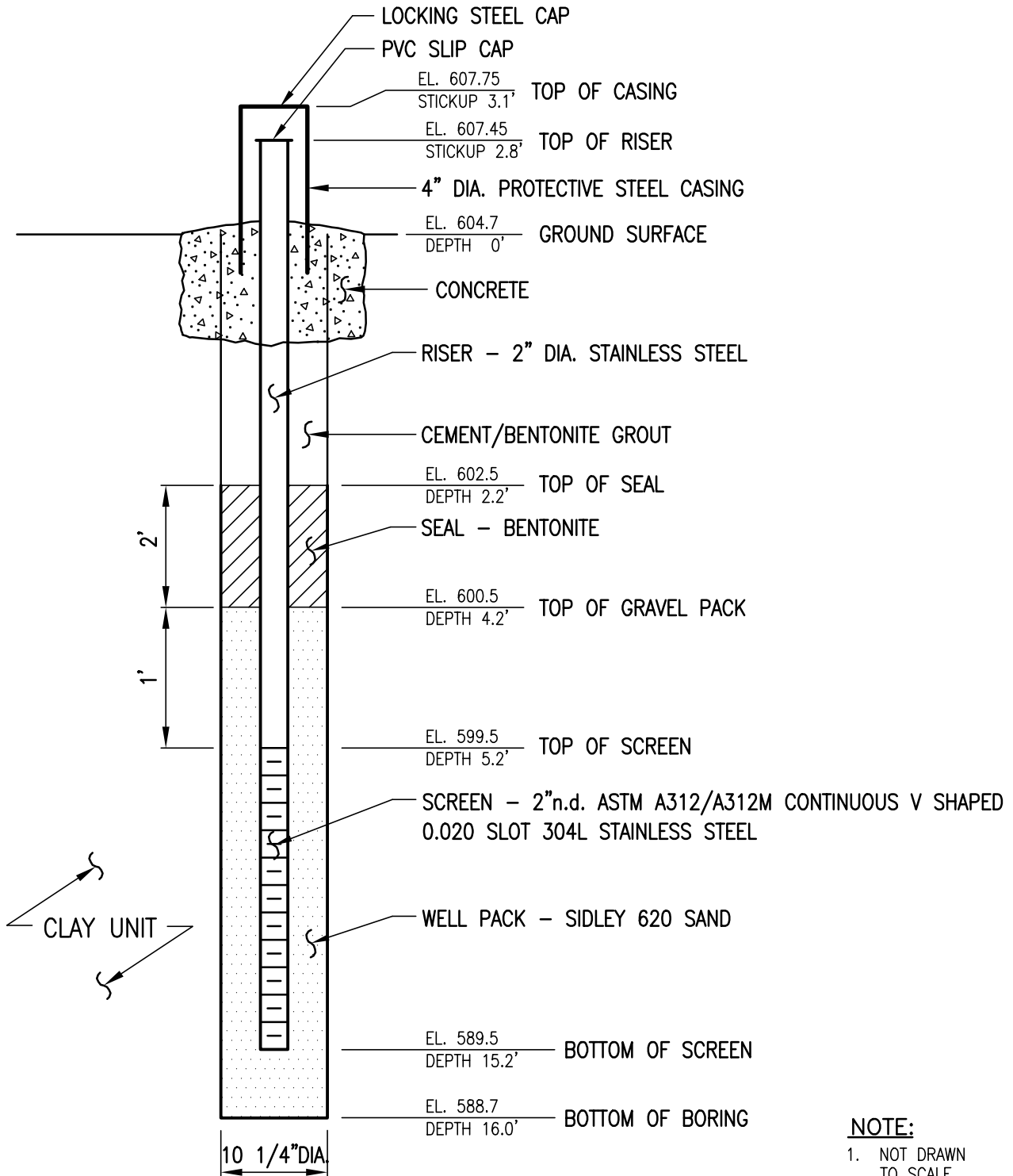


NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-22

MW-23S



NOTE:

1. NOT DRAWN TO SCALE
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK		PROJECT # 2011-200
NO.	DATE				
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL	Unicom Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	FILENAME: 2035200A SCALE: NTS BY: AD DATE: 1/15/02 CK: FIGURE # MW-23S

APPENDIX B

LABORATORY REPORT



September 19, 2017

Service Request No:R1708324

Mr. Michael Persico
Unicorn Management Consultants
52 Federal Road
Suite 2C
Danbury, CT 06810

Laboratory Results for: Union Road

Dear Mr.Persico,

Enclosed are the results of the sample(s) submitted to our laboratory September 06, 2017
For your reference, these analyses have been assigned our service request number **R1708324**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Received: 9/6/17

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Fourteen Water samples were received for analysis at ALS Environmental on 09/06/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260, 9/8/17: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Semi-Volatile Organic Analyses:

Method 8270D, 09/12/17: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals Analyses:

No significant anomalies were noted with this analysis.

General Chemistry Analyses:

No significant anomalies were noted with this analysis.

Approved by Date 9/19/2017



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request:R1708324

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1708324-001	MW-10S	9/6/2017	1000
R1708324-002	MW-10M	9/6/2017	1015
R1708324-003	MW-10D	9/6/2017	1030
R1708324-004	MW-11S	9/6/2017	1115
R1708324-005	MW-11M	9/6/2017	1130
R1708324-006	MW-12S	9/6/2017	1145
R1708324-007	MW-12M	9/6/2017	1200
R1708324-008	MW-12D	9/6/2017	1215
R1708324-009	MW-13S	9/6/2017	1300
R1708324-010	MW-13M	9/6/2017	1315
R1708324-011	MW-14S	9/6/2017	1330
R1708324-012	TB-A	9/6/2017	
R1708324-013	TB-B	9/6/2017	
R1708324-014	TB-C	9/6/2017	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

46734

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE ____ OF ____

Project Name Union Road		Project Number 2011-100		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager Mike Persico		Report CC Ftrejo@unicornmgt.com		PRESERVATIVE 1															
Company/Address Unicorn Management Consultants, LLC		Email mpersico@unicornmgt.com		NUMBER OF CONTAINERS GC/MS VOAs 8260 • 824 • CLP GC/MS SVOAs 8270 • 825 GC VOAs 8021 • 601/802 PESTICIDES 8081 • 608 PCBs 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other _____															
52 Federal Road, Suite 2C																			
Dumbury, CT 06810																			
Phone # (203) 205-9000		Sampler's Signature Garry Bohan		Sampler's Printed Name Garry Bohan		REMARKS/ ALTERNATE DESCRIPTION													
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX														
TB-A		LAB	LAB	AQ	2														
TB-B		LAB	LAB	AQ	2														
TB-C		LAB	LAB	AQ	2														
SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS				REPORT REQUIREMENTS				INVOICE INFORMATION									
Metals TB-A Cooler MW-10S, MW-10M, MW-10D, MW-11S, MW-11M, MW-11M		RUSH (SURCHARGES APPLY)				I. Results Only				PO # 2011-100									
TB-B Cooler MW-12S, MW-12M, MW-12D, MW-13S, MW-13M		1 day ____ 2 day ____ 3 day ____ 4 day ____ 5 day ____				II. Results + QC Summaries (LCS, DUP, MS/MSD as required)				BILL TO: Isabel Miller com									
TBC Cooler MW-14S		Standard				III. Results + QC and Calibration Summaries				imiller@unicornmgt.com									
NY DEC Format		REQUESTED REPORT DATE				IV. Data Validation Report with Raw Data													
See QAPP ☐						Edata ☒ Yes ____ No													
STATE WHERE SAMPLES WERE COLLECTED NY																			
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY									
Signature Garry Bohan		Signature Garry Bohan		Signature		Signature		Signature		Signature									
Printed Name Garry Bohan		Printed Name Garry Bohan		Printed Name		Printed Name		Printed Name		Printed Name									
Firm WMC		Firm WMC		Firm		Firm		Firm		Firm									
Date/Time 9/6/17 1535		Date/Time 9/6/17 1535		Date/Time		Date/Time		Date/Time		Date/Time									

R1708324

5

Unicorn Management Consultants
Union Road



Cooler Receipt and Preservation Check For

R1708324
Unicorn Management Consultants
Union Road

5

Project/Client Unicorn Folder Number _____Cooler received on 9/6/17 by: @COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>(Y)</u> N
2	Custody papers properly completed (ink, signed)?	<u>(Y)</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>(Y)</u> N
4	Circle: Wet Ice Dry Ice Gel packs present?	<u>(Y)</u> N

5a	Perchlorate samples have required headspace?	Y N <u>(NA)</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>(N)</u> NA
6	Where did the bottles originate?	<u>ALS/ROO</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 9/6/17 Time: 1540 ID: IR#7 IR#8 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.9</u>	<u>4.7</u>	<u>5.0</u>				
Correction Factor (°C)	<u>-</u>	<u>+0.9</u>	<u>+0.4</u>				
Corrected Temp (°C)	<u>3.9</u>	<u>5.6</u>	<u>5.4</u>				
Temp from: Type of bottle	<u>-</u>	<u>car/bulu</u>	<u>100 vial</u>				
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> N	<u>(Y)</u> N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-00L by @ on 9/6/17 at 1547
5035 samples placed in storage location: _____ by _____ on _____ at _____Cooler Breakdown: Date: 9/7/17 Time: 0646 by: @

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes	No						
≤2		HNO ₃								
≤2		H ₂ SO ₄			<u>183734</u>	<u>8/8</u>				
<4		NaHSO ₄								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃	-	-						
		ZnAcetate	-	-						
		HCl	**	**	<u>4115022</u>	<u>9/8</u>				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 060317-2AAW, 6-195-001, 060317-1DK

Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: @
PC Secondary Review: JP

8 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% (25% for CLP) difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request: R1708324

Sample Name: MW-10S
Lab Code: R1708324-001
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-10M
Lab Code: R1708324-002
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-10D
Lab Code: R1708324-003
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-11S
Lab Code: R1708324-004
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A

Extracted/Digested By

Analyzed By

KMENGs

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request: R1708324

Sample Name: MW-11S
Lab Code: R1708324-004
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-11M
Lab Code: R1708324-005
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-12S
Lab Code: R1708324-006
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-12M
Lab Code: R1708324-007
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C

Extracted/Digested By

KMCLAEN

Analyzed By

KMENGs
NMANSEN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request: R1708324

Sample Name: MW-12M
Lab Code: R1708324-007
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

8260C
8270D

Extracted/Digested By

DMURPHY

Analyzed By

KRUEST
JMISIUREWICZ

Sample Name: MW-12D
Lab Code: R1708324-008
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGS
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-13S
Lab Code: R1708324-009
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By

KMENGS
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: MW-13M
Lab Code: R1708324-010
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method

1664A
6010C
8260C

Extracted/Digested By

KMCLAEN

Analyzed By

KMENGS
NMANSEN
KRUEST

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request: R1708324

Sample Name: MW-13M
Lab Code: R1708324-010
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method
8270D

Extracted/Digested By
DMURPHY

Analyzed By
JMISIUREWICZ

Sample Name: MW-14S
Lab Code: R1708324-011
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method
1664A
6010C
8260C
8270D

Extracted/Digested By

KMCLAEN

DMURPHY

Analyzed By
KMENGs
NMANSEN
KRUEST
JMISIUREWICZ

Sample Name: TB-A
Lab Code: R1708324-012
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: TB-B
Lab Code: R1708324-013
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Unicorn Management Consultants
Project: Union Road/2011-100

Service Request: R1708324

Sample Name: TB-C
Lab Code: R1708324-014
Sample Matrix: Water

Date Collected: 09/6/17
Date Received: 09/6/17

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35

Sample Name: MW-10S
Lab Code: R1708324-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 15:06	
Benzene	ND U	5.0	1	09/08/17 15:06	
Bromodichloromethane	ND U	5.0	1	09/08/17 15:06	
Bromoform	ND U	5.0	1	09/08/17 15:06	
Bromomethane	ND U	5.0	1	09/08/17 15:06	
2-Butanone (MEK)	ND U	10	1	09/08/17 15:06	
Carbon Disulfide	ND U	10	1	09/08/17 15:06	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 15:06	
Chlorobenzene	ND U	5.0	1	09/08/17 15:06	
Chloroethane	ND U	5.0	1	09/08/17 15:06	
Chloroform	ND U	5.0	1	09/08/17 15:06	
Chloromethane	ND U	5.0	1	09/08/17 15:06	
Dibromochloromethane	ND U	5.0	1	09/08/17 15:06	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 15:06	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 15:06	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 15:06	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:06	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:06	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 15:06	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:06	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:06	
Ethylbenzene	ND U	5.0	1	09/08/17 15:06	
2-Hexanone	ND U	10	1	09/08/17 15:06	
Methylene Chloride	ND U	5.0	1	09/08/17 15:06	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 15:06	
Styrene	ND U	5.0	1	09/08/17 15:06	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 15:06	
Tetrachloroethene	ND U	5.0	1	09/08/17 15:06	
Toluene	ND U	5.0	1	09/08/17 15:06	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 15:06	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 15:06	
Trichloroethene	ND U	5.0	1	09/08/17 15:06	
Vinyl Chloride	ND U	5.0	1	09/08/17 15:06	
o-Xylene	ND U	5.0	1	09/08/17 15:06	
m,p-Xylenes	ND U	5.0	1	09/08/17 15:06	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35

Sample Name: MW-10S
Lab Code: R1708324-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/08/17 15:06	
Toluene-d8	98	87 - 121	09/08/17 15:06	
Dibromofluoromethane	96	89 - 119	09/08/17 15:06	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35

Sample Name: MW-10M
Lab Code: R1708324-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 15:28	
Benzene	ND U	5.0	1	09/08/17 15:28	
Bromodichloromethane	ND U	5.0	1	09/08/17 15:28	
Bromoform	ND U	5.0	1	09/08/17 15:28	
Bromomethane	ND U	5.0	1	09/08/17 15:28	
2-Butanone (MEK)	ND U	10	1	09/08/17 15:28	
Carbon Disulfide	ND U	10	1	09/08/17 15:28	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 15:28	
Chlorobenzene	ND U	5.0	1	09/08/17 15:28	
Chloroethane	ND U	5.0	1	09/08/17 15:28	
Chloroform	ND U	5.0	1	09/08/17 15:28	
Chloromethane	ND U	5.0	1	09/08/17 15:28	
Dibromochloromethane	ND U	5.0	1	09/08/17 15:28	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 15:28	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 15:28	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 15:28	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:28	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:28	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 15:28	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:28	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:28	
Ethylbenzene	ND U	5.0	1	09/08/17 15:28	
2-Hexanone	ND U	10	1	09/08/17 15:28	
Methylene Chloride	ND U	5.0	1	09/08/17 15:28	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 15:28	
Styrene	ND U	5.0	1	09/08/17 15:28	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 15:28	
Tetrachloroethene	ND U	5.0	1	09/08/17 15:28	
Toluene	ND U	5.0	1	09/08/17 15:28	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 15:28	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 15:28	
Trichloroethene	ND U	5.0	1	09/08/17 15:28	
Vinyl Chloride	ND U	5.0	1	09/08/17 15:28	
o-Xylene	ND U	5.0	1	09/08/17 15:28	
m,p-Xylenes	ND U	5.0	1	09/08/17 15:28	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35

Sample Name: MW-10M
Lab Code: R1708324-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/08/17 15:28	
Toluene-d8	104	87 - 121	09/08/17 15:28	
Dibromofluoromethane	98	89 - 119	09/08/17 15:28	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35

Sample Name: MW-10D
Lab Code: R1708324-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 15:50	
Benzene	ND U	5.0	1	09/08/17 15:50	
Bromodichloromethane	ND U	5.0	1	09/08/17 15:50	
Bromoform	ND U	5.0	1	09/08/17 15:50	
Bromomethane	ND U	5.0	1	09/08/17 15:50	
2-Butanone (MEK)	ND U	10	1	09/08/17 15:50	
Carbon Disulfide	ND U	10	1	09/08/17 15:50	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 15:50	
Chlorobenzene	ND U	5.0	1	09/08/17 15:50	
Chloroethane	ND U	5.0	1	09/08/17 15:50	
Chloroform	ND U	5.0	1	09/08/17 15:50	
Chloromethane	ND U	5.0	1	09/08/17 15:50	
Dibromochloromethane	ND U	5.0	1	09/08/17 15:50	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 15:50	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 15:50	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 15:50	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:50	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 15:50	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 15:50	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:50	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 15:50	
Ethylbenzene	ND U	5.0	1	09/08/17 15:50	
2-Hexanone	ND U	10	1	09/08/17 15:50	
Methylene Chloride	ND U	5.0	1	09/08/17 15:50	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 15:50	
Styrene	ND U	5.0	1	09/08/17 15:50	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 15:50	
Tetrachloroethene	ND U	5.0	1	09/08/17 15:50	
Toluene	ND U	5.0	1	09/08/17 15:50	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 15:50	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 15:50	
Trichloroethene	ND U	5.0	1	09/08/17 15:50	
Vinyl Chloride	ND U	5.0	1	09/08/17 15:50	
o-Xylene	ND U	5.0	1	09/08/17 15:50	
m,p-Xylenes	ND U	5.0	1	09/08/17 15:50	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35

Sample Name: MW-10D
Lab Code: R1708324-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/08/17 15:50	
Toluene-d8	100	87 - 121	09/08/17 15:50	
Dibromofluoromethane	99	89 - 119	09/08/17 15:50	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Sample Name: MW-11S
Lab Code: R1708324-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 16:11	
Benzene	ND U	5.0	1	09/08/17 16:11	
Bromodichloromethane	ND U	5.0	1	09/08/17 16:11	
Bromoform	ND U	5.0	1	09/08/17 16:11	
Bromomethane	ND U	5.0	1	09/08/17 16:11	
2-Butanone (MEK)	ND U	10	1	09/08/17 16:11	
Carbon Disulfide	ND U	10	1	09/08/17 16:11	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 16:11	
Chlorobenzene	ND U	5.0	1	09/08/17 16:11	
Chloroethane	ND U	5.0	1	09/08/17 16:11	
Chloroform	ND U	5.0	1	09/08/17 16:11	
Chloromethane	ND U	5.0	1	09/08/17 16:11	
Dibromochloromethane	ND U	5.0	1	09/08/17 16:11	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 16:11	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 16:11	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 16:11	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:11	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:11	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 16:11	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:11	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:11	
Ethylbenzene	ND U	5.0	1	09/08/17 16:11	
2-Hexanone	ND U	10	1	09/08/17 16:11	
Methylene Chloride	ND U	5.0	1	09/08/17 16:11	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 16:11	
Styrene	ND U	5.0	1	09/08/17 16:11	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 16:11	
Tetrachloroethene	ND U	5.0	1	09/08/17 16:11	
Toluene	ND U	5.0	1	09/08/17 16:11	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 16:11	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 16:11	
Trichloroethene	ND U	5.0	1	09/08/17 16:11	
Vinyl Chloride	ND U	5.0	1	09/08/17 16:11	
o-Xylene	ND U	5.0	1	09/08/17 16:11	
m,p-Xylenes	ND U	5.0	1	09/08/17 16:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Sample Name: MW-11S
Lab Code: R1708324-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/08/17 16:11	
Toluene-d8	101	87 - 121	09/08/17 16:11	
Dibromofluoromethane	101	89 - 119	09/08/17 16:11	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35

Sample Name: MW-11M
Lab Code: R1708324-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 16:33	
Benzene	ND U	5.0	1	09/08/17 16:33	
Bromodichloromethane	ND U	5.0	1	09/08/17 16:33	
Bromoform	ND U	5.0	1	09/08/17 16:33	
Bromomethane	ND U	5.0	1	09/08/17 16:33	
2-Butanone (MEK)	ND U	10	1	09/08/17 16:33	
Carbon Disulfide	ND U	10	1	09/08/17 16:33	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 16:33	
Chlorobenzene	ND U	5.0	1	09/08/17 16:33	
Chloroethane	ND U	5.0	1	09/08/17 16:33	
Chloroform	ND U	5.0	1	09/08/17 16:33	
Chloromethane	ND U	5.0	1	09/08/17 16:33	
Dibromochloromethane	ND U	5.0	1	09/08/17 16:33	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 16:33	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 16:33	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 16:33	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:33	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:33	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 16:33	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:33	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:33	
Ethylbenzene	ND U	5.0	1	09/08/17 16:33	
2-Hexanone	ND U	10	1	09/08/17 16:33	
Methylene Chloride	ND U	5.0	1	09/08/17 16:33	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 16:33	
Styrene	ND U	5.0	1	09/08/17 16:33	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 16:33	
Tetrachloroethene	ND U	5.0	1	09/08/17 16:33	
Toluene	ND U	5.0	1	09/08/17 16:33	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 16:33	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 16:33	
Trichloroethene	ND U	5.0	1	09/08/17 16:33	
Vinyl Chloride	ND U	5.0	1	09/08/17 16:33	
o-Xylene	ND U	5.0	1	09/08/17 16:33	
m,p-Xylenes	ND U	5.0	1	09/08/17 16:33	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35

Sample Name: MW-11M
Lab Code: R1708324-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/08/17 16:33	
Toluene-d8	102	87 - 121	09/08/17 16:33	
Dibromofluoromethane	98	89 - 119	09/08/17 16:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35

Sample Name: MW-12S
Lab Code: R1708324-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 16:55	
Benzene	ND U	5.0	1	09/08/17 16:55	
Bromodichloromethane	ND U	5.0	1	09/08/17 16:55	
Bromoform	ND U	5.0	1	09/08/17 16:55	
Bromomethane	ND U	5.0	1	09/08/17 16:55	
2-Butanone (MEK)	ND U	10	1	09/08/17 16:55	
Carbon Disulfide	ND U	10	1	09/08/17 16:55	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 16:55	
Chlorobenzene	ND U	5.0	1	09/08/17 16:55	
Chloroethane	ND U	5.0	1	09/08/17 16:55	
Chloroform	ND U	5.0	1	09/08/17 16:55	
Chloromethane	ND U	5.0	1	09/08/17 16:55	
Dibromochloromethane	ND U	5.0	1	09/08/17 16:55	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 16:55	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 16:55	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 16:55	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:55	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 16:55	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 16:55	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:55	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 16:55	
Ethylbenzene	ND U	5.0	1	09/08/17 16:55	
2-Hexanone	ND U	10	1	09/08/17 16:55	
Methylene Chloride	ND U	5.0	1	09/08/17 16:55	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 16:55	
Styrene	ND U	5.0	1	09/08/17 16:55	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 16:55	
Tetrachloroethene	ND U	5.0	1	09/08/17 16:55	
Toluene	ND U	5.0	1	09/08/17 16:55	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 16:55	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 16:55	
Trichloroethene	ND U	5.0	1	09/08/17 16:55	
Vinyl Chloride	ND U	5.0	1	09/08/17 16:55	
o-Xylene	ND U	5.0	1	09/08/17 16:55	
m,p-Xylenes	ND U	5.0	1	09/08/17 16:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35

Sample Name: MW-12S
Lab Code: R1708324-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/08/17 16:55	
Toluene-d8	102	87 - 121	09/08/17 16:55	
Dibromofluoromethane	100	89 - 119	09/08/17 16:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35

Sample Name: MW-12M
Lab Code: R1708324-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 17:17	
Benzene	ND U	5.0	1	09/08/17 17:17	
Bromodichloromethane	ND U	5.0	1	09/08/17 17:17	
Bromoform	ND U	5.0	1	09/08/17 17:17	
Bromomethane	ND U	5.0	1	09/08/17 17:17	
2-Butanone (MEK)	ND U	10	1	09/08/17 17:17	
Carbon Disulfide	ND U	10	1	09/08/17 17:17	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 17:17	
Chlorobenzene	ND U	5.0	1	09/08/17 17:17	
Chloroethane	ND U	5.0	1	09/08/17 17:17	
Chloroform	ND U	5.0	1	09/08/17 17:17	
Chloromethane	ND U	5.0	1	09/08/17 17:17	
Dibromochloromethane	ND U	5.0	1	09/08/17 17:17	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 17:17	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 17:17	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 17:17	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 17:17	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 17:17	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 17:17	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 17:17	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 17:17	
Ethylbenzene	ND U	5.0	1	09/08/17 17:17	
2-Hexanone	ND U	10	1	09/08/17 17:17	
Methylene Chloride	ND U	5.0	1	09/08/17 17:17	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 17:17	
Styrene	ND U	5.0	1	09/08/17 17:17	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 17:17	
Tetrachloroethene	ND U	5.0	1	09/08/17 17:17	
Toluene	ND U	5.0	1	09/08/17 17:17	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 17:17	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 17:17	
Trichloroethene	ND U	5.0	1	09/08/17 17:17	
Vinyl Chloride	ND U	5.0	1	09/08/17 17:17	
o-Xylene	ND U	5.0	1	09/08/17 17:17	
m,p-Xylenes	ND U	5.0	1	09/08/17 17:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35

Sample Name: MW-12M
Lab Code: R1708324-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/08/17 17:17	
Toluene-d8	102	87 - 121	09/08/17 17:17	
Dibromofluoromethane	97	89 - 119	09/08/17 17:17	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35

Sample Name: MW-12D
Lab Code: R1708324-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 17:39	
Benzene	ND U	5.0	1	09/08/17 17:39	
Bromodichloromethane	ND U	5.0	1	09/08/17 17:39	
Bromoform	ND U	5.0	1	09/08/17 17:39	
Bromomethane	ND U	5.0	1	09/08/17 17:39	
2-Butanone (MEK)	ND U	10	1	09/08/17 17:39	
Carbon Disulfide	ND U	10	1	09/08/17 17:39	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 17:39	
Chlorobenzene	ND U	5.0	1	09/08/17 17:39	
Chloroethane	ND U	5.0	1	09/08/17 17:39	
Chloroform	ND U	5.0	1	09/08/17 17:39	
Chloromethane	ND U	5.0	1	09/08/17 17:39	
Dibromochloromethane	ND U	5.0	1	09/08/17 17:39	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 17:39	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 17:39	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 17:39	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 17:39	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 17:39	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 17:39	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 17:39	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 17:39	
Ethylbenzene	ND U	5.0	1	09/08/17 17:39	
2-Hexanone	ND U	10	1	09/08/17 17:39	
Methylene Chloride	ND U	5.0	1	09/08/17 17:39	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 17:39	
Styrene	ND U	5.0	1	09/08/17 17:39	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 17:39	
Tetrachloroethene	ND U	5.0	1	09/08/17 17:39	
Toluene	ND U	5.0	1	09/08/17 17:39	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 17:39	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 17:39	
Trichloroethene	ND U	5.0	1	09/08/17 17:39	
Vinyl Chloride	ND U	5.0	1	09/08/17 17:39	
o-Xylene	ND U	5.0	1	09/08/17 17:39	
m,p-Xylenes	ND U	5.0	1	09/08/17 17:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35

Sample Name: MW-12D
Lab Code: R1708324-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/08/17 17:39	
Toluene-d8	100	87 - 121	09/08/17 17:39	
Dibromofluoromethane	102	89 - 119	09/08/17 17:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35

Sample Name: MW-13S
Lab Code: R1708324-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 18:01	
Benzene	ND U	5.0	1	09/08/17 18:01	
Bromodichloromethane	ND U	5.0	1	09/08/17 18:01	
Bromoform	ND U	5.0	1	09/08/17 18:01	
Bromomethane	ND U	5.0	1	09/08/17 18:01	
2-Butanone (MEK)	ND U	10	1	09/08/17 18:01	
Carbon Disulfide	ND U	10	1	09/08/17 18:01	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 18:01	
Chlorobenzene	ND U	5.0	1	09/08/17 18:01	
Chloroethane	ND U	5.0	1	09/08/17 18:01	
Chloroform	ND U	5.0	1	09/08/17 18:01	
Chloromethane	ND U	5.0	1	09/08/17 18:01	
Dibromochloromethane	ND U	5.0	1	09/08/17 18:01	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 18:01	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 18:01	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 18:01	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:01	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:01	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 18:01	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:01	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:01	
Ethylbenzene	ND U	5.0	1	09/08/17 18:01	
2-Hexanone	ND U	10	1	09/08/17 18:01	
Methylene Chloride	ND U	5.0	1	09/08/17 18:01	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 18:01	
Styrene	ND U	5.0	1	09/08/17 18:01	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 18:01	
Tetrachloroethene	ND U	5.0	1	09/08/17 18:01	
Toluene	ND U	5.0	1	09/08/17 18:01	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 18:01	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 18:01	
Trichloroethene	ND U	5.0	1	09/08/17 18:01	
Vinyl Chloride	ND U	5.0	1	09/08/17 18:01	
o-Xylene	ND U	5.0	1	09/08/17 18:01	
m,p-Xylenes	ND U	5.0	1	09/08/17 18:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35

Sample Name: MW-13S
Lab Code: R1708324-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/08/17 18:01	
Toluene-d8	101	87 - 121	09/08/17 18:01	
Dibromofluoromethane	103	89 - 119	09/08/17 18:01	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35

Sample Name: MW-13M
Lab Code: R1708324-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 18:22	
Benzene	ND U	5.0	1	09/08/17 18:22	
Bromodichloromethane	ND U	5.0	1	09/08/17 18:22	
Bromoform	ND U	5.0	1	09/08/17 18:22	
Bromomethane	ND U	5.0	1	09/08/17 18:22	
2-Butanone (MEK)	ND U	10	1	09/08/17 18:22	
Carbon Disulfide	ND U	10	1	09/08/17 18:22	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 18:22	
Chlorobenzene	ND U	5.0	1	09/08/17 18:22	
Chloroethane	ND U	5.0	1	09/08/17 18:22	
Chloroform	ND U	5.0	1	09/08/17 18:22	
Chloromethane	ND U	5.0	1	09/08/17 18:22	
Dibromochloromethane	ND U	5.0	1	09/08/17 18:22	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 18:22	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 18:22	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 18:22	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:22	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:22	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 18:22	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:22	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:22	
Ethylbenzene	ND U	5.0	1	09/08/17 18:22	
2-Hexanone	ND U	10	1	09/08/17 18:22	
Methylene Chloride	ND U	5.0	1	09/08/17 18:22	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 18:22	
Styrene	ND U	5.0	1	09/08/17 18:22	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 18:22	
Tetrachloroethene	ND U	5.0	1	09/08/17 18:22	
Toluene	ND U	5.0	1	09/08/17 18:22	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 18:22	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 18:22	
Trichloroethene	ND U	5.0	1	09/08/17 18:22	
Vinyl Chloride	ND U	5.0	1	09/08/17 18:22	
o-Xylene	ND U	5.0	1	09/08/17 18:22	
m,p-Xylenes	ND U	5.0	1	09/08/17 18:22	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35

Sample Name: MW-13M
Lab Code: R1708324-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/08/17 18:22	
Toluene-d8	102	87 - 121	09/08/17 18:22	
Dibromofluoromethane	101	89 - 119	09/08/17 18:22	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35

Sample Name: MW-14S
Lab Code: R1708324-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 18:44	
Benzene	ND U	5.0	1	09/08/17 18:44	
Bromodichloromethane	ND U	5.0	1	09/08/17 18:44	
Bromoform	ND U	5.0	1	09/08/17 18:44	
Bromomethane	ND U	5.0	1	09/08/17 18:44	
2-Butanone (MEK)	ND U	10	1	09/08/17 18:44	
Carbon Disulfide	ND U	10	1	09/08/17 18:44	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 18:44	
Chlorobenzene	ND U	5.0	1	09/08/17 18:44	
Chloroethane	ND U	5.0	1	09/08/17 18:44	
Chloroform	ND U	5.0	1	09/08/17 18:44	
Chloromethane	ND U	5.0	1	09/08/17 18:44	
Dibromochloromethane	ND U	5.0	1	09/08/17 18:44	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 18:44	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 18:44	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 18:44	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:44	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 18:44	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 18:44	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:44	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 18:44	
Ethylbenzene	ND U	5.0	1	09/08/17 18:44	
2-Hexanone	ND U	10	1	09/08/17 18:44	
Methylene Chloride	ND U	5.0	1	09/08/17 18:44	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 18:44	
Styrene	ND U	5.0	1	09/08/17 18:44	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 18:44	
Tetrachloroethene	ND U	5.0	1	09/08/17 18:44	
Toluene	ND U	5.0	1	09/08/17 18:44	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 18:44	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 18:44	
Trichloroethene	ND U	5.0	1	09/08/17 18:44	
Vinyl Chloride	ND U	5.0	1	09/08/17 18:44	
o-Xylene	ND U	5.0	1	09/08/17 18:44	
m,p-Xylenes	ND U	5.0	1	09/08/17 18:44	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35

Sample Name: MW-14S
Lab Code: R1708324-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/08/17 18:44	
Toluene-d8	99	87 - 121	09/08/17 18:44	
Dibromofluoromethane	96	89 - 119	09/08/17 18:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-A
Lab Code: R1708324-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 14:00	
Benzene	ND U	5.0	1	09/08/17 14:00	
Bromodichloromethane	ND U	5.0	1	09/08/17 14:00	
Bromoform	ND U	5.0	1	09/08/17 14:00	
Bromomethane	ND U	5.0	1	09/08/17 14:00	
2-Butanone (MEK)	ND U	10	1	09/08/17 14:00	
Carbon Disulfide	ND U	10	1	09/08/17 14:00	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 14:00	
Chlorobenzene	ND U	5.0	1	09/08/17 14:00	
Chloroethane	ND U	5.0	1	09/08/17 14:00	
Chloroform	ND U	5.0	1	09/08/17 14:00	
Chloromethane	ND U	5.0	1	09/08/17 14:00	
Dibromochloromethane	ND U	5.0	1	09/08/17 14:00	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 14:00	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 14:00	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 14:00	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:00	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:00	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 14:00	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:00	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:00	
Ethylbenzene	ND U	5.0	1	09/08/17 14:00	
2-Hexanone	ND U	10	1	09/08/17 14:00	
Methylene Chloride	ND U	5.0	1	09/08/17 14:00	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 14:00	
Styrene	ND U	5.0	1	09/08/17 14:00	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 14:00	
Tetrachloroethene	ND U	5.0	1	09/08/17 14:00	
Toluene	ND U	5.0	1	09/08/17 14:00	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 14:00	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 14:00	
Trichloroethene	ND U	5.0	1	09/08/17 14:00	
Vinyl Chloride	ND U	5.0	1	09/08/17 14:00	
o-Xylene	ND U	5.0	1	09/08/17 14:00	
m,p-Xylenes	ND U	5.0	1	09/08/17 14:00	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-A
Lab Code: R1708324-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/08/17 14:00	
Toluene-d8	103	87 - 121	09/08/17 14:00	
Dibromofluoromethane	99	89 - 119	09/08/17 14:00	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-B
Lab Code: R1708324-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 14:22	
Benzene	ND U	5.0	1	09/08/17 14:22	
Bromodichloromethane	ND U	5.0	1	09/08/17 14:22	
Bromoform	ND U	5.0	1	09/08/17 14:22	
Bromomethane	ND U	5.0	1	09/08/17 14:22	
2-Butanone (MEK)	ND U	10	1	09/08/17 14:22	
Carbon Disulfide	ND U	10	1	09/08/17 14:22	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 14:22	
Chlorobenzene	ND U	5.0	1	09/08/17 14:22	
Chloroethane	ND U	5.0	1	09/08/17 14:22	
Chloroform	ND U	5.0	1	09/08/17 14:22	
Chloromethane	ND U	5.0	1	09/08/17 14:22	
Dibromochloromethane	ND U	5.0	1	09/08/17 14:22	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 14:22	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 14:22	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 14:22	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:22	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:22	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 14:22	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:22	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:22	
Ethylbenzene	ND U	5.0	1	09/08/17 14:22	
2-Hexanone	ND U	10	1	09/08/17 14:22	
Methylene Chloride	ND U	5.0	1	09/08/17 14:22	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 14:22	
Styrene	ND U	5.0	1	09/08/17 14:22	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 14:22	
Tetrachloroethene	ND U	5.0	1	09/08/17 14:22	
Toluene	ND U	5.0	1	09/08/17 14:22	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 14:22	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 14:22	
Trichloroethene	ND U	5.0	1	09/08/17 14:22	
Vinyl Chloride	ND U	5.0	1	09/08/17 14:22	
o-Xylene	ND U	5.0	1	09/08/17 14:22	
m,p-Xylenes	ND U	5.0	1	09/08/17 14:22	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-B
Lab Code: R1708324-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/08/17 14:22	
Toluene-d8	102	87 - 121	09/08/17 14:22	
Dibromofluoromethane	99	89 - 119	09/08/17 14:22	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-C
Lab Code: R1708324-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 14:44	
Benzene	ND U	5.0	1	09/08/17 14:44	
Bromodichloromethane	ND U	5.0	1	09/08/17 14:44	
Bromoform	ND U	5.0	1	09/08/17 14:44	
Bromomethane	ND U	5.0	1	09/08/17 14:44	
2-Butanone (MEK)	ND U	10	1	09/08/17 14:44	
Carbon Disulfide	ND U	10	1	09/08/17 14:44	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 14:44	
Chlorobenzene	ND U	5.0	1	09/08/17 14:44	
Chloroethane	ND U	5.0	1	09/08/17 14:44	
Chloroform	ND U	5.0	1	09/08/17 14:44	
Chloromethane	ND U	5.0	1	09/08/17 14:44	
Dibromochloromethane	ND U	5.0	1	09/08/17 14:44	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 14:44	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 14:44	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 14:44	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:44	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 14:44	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 14:44	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:44	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 14:44	
Ethylbenzene	ND U	5.0	1	09/08/17 14:44	
2-Hexanone	ND U	10	1	09/08/17 14:44	
Methylene Chloride	ND U	5.0	1	09/08/17 14:44	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 14:44	
Styrene	ND U	5.0	1	09/08/17 14:44	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 14:44	
Tetrachloroethene	ND U	5.0	1	09/08/17 14:44	
Toluene	ND U	5.0	1	09/08/17 14:44	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 14:44	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 14:44	
Trichloroethene	ND U	5.0	1	09/08/17 14:44	
Vinyl Chloride	ND U	5.0	1	09/08/17 14:44	
o-Xylene	ND U	5.0	1	09/08/17 14:44	
m,p-Xylenes	ND U	5.0	1	09/08/17 14:44	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17
Date Received: 09/06/17 15:35

Sample Name: TB-C
Lab Code: R1708324-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/08/17 14:44	
Toluene-d8	103	87 - 121	09/08/17 14:44	
Dibromofluoromethane	97	89 - 119	09/08/17 14:44	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35

Sample Name: MW-10S
Lab Code: R1708324-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 16:38	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 16:38	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 16:38	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 16:38	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 16:38	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 16:38	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 16:38	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 16:38	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 16:38	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 16:38	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 16:38	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 16:38	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 16:38	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 16:38	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 16:38	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 16:38	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 16:38	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 16:38	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 16:38	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 16:38	9/8/17	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35

Sample Name: MW-10S
Lab Code: R1708324-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 16:38	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 16:38	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 16:38	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 16:38	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 16:38	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 16:38	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 16:38	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 16:38	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 16:38	9/8/17	
Phenol	ND U	9.4	1	09/11/17 16:38	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 16:38	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	35 - 141	09/11/17 16:38	
2-Fluorobiphenyl	77	31 - 118	09/11/17 16:38	
2-Fluorophenol	36	10 - 105	09/11/17 16:38	
Nitrobenzene-d5	80	31 - 110	09/11/17 16:38	
Phenol-d6	31	10 - 107	09/11/17 16:38	
p-Terphenyl-d14	91	30 - 133	09/11/17 16:38	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35

Sample Name: MW-10M
Lab Code: R1708324-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 17:06	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 17:06	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 17:06	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 17:06	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 17:06	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 17:06	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 17:06	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 17:06	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 17:06	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 17:06	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 17:06	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 17:06	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 17:06	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 17:06	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 17:06	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 17:06	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 17:06	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 17:06	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 17:06	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 17:06	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35

Sample Name: MW-10M
Lab Code: R1708324-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 17:06	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 17:06	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 17:06	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 17:06	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 17:06	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 17:06	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 17:06	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 17:06	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 17:06	9/8/17	
Phenol	ND U	9.4	1	09/11/17 17:06	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 17:06	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	09/11/17 17:06	
2-Fluorobiphenyl	77	31 - 118	09/11/17 17:06	
2-Fluorophenol	36	10 - 105	09/11/17 17:06	
Nitrobenzene-d5	80	31 - 110	09/11/17 17:06	
Phenol-d6	30	10 - 107	09/11/17 17:06	
p-Terphenyl-d14	90	30 - 133	09/11/17 17:06	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35

Sample Name: MW-10D
Lab Code: R1708324-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 17:35	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 17:35	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 17:35	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 17:35	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 17:35	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 17:35	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 17:35	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 17:35	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 17:35	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 17:35	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 17:35	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 17:35	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 17:35	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 17:35	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 17:35	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 17:35	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 17:35	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 17:35	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 17:35	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 17:35	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35

Sample Name: MW-10D
Lab Code: R1708324-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 17:35	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 17:35	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 17:35	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 17:35	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 17:35	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 17:35	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 17:35	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 17:35	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 17:35	9/8/17	
Phenol	ND U	9.4	1	09/11/17 17:35	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 17:35	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	09/11/17 17:35	
2-Fluorobiphenyl	77	31 - 118	09/11/17 17:35	
2-Fluorophenol	37	10 - 105	09/11/17 17:35	
Nitrobenzene-d5	85	31 - 110	09/11/17 17:35	
Phenol-d6	31	10 - 107	09/11/17 17:35	
p-Terphenyl-d14	96	30 - 133	09/11/17 17:35	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Sample Name: MW-11S
Lab Code: R1708324-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 18:03	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 18:03	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 18:03	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 18:03	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 18:03	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 18:03	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 18:03	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 18:03	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 18:03	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:03	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 18:03	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:03	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 18:03	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 18:03	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 18:03	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 18:03	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 18:03	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 18:03	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 18:03	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 18:03	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Sample Name: MW-11S
Lab Code: R1708324-004

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 18:03	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 18:03	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 18:03	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 18:03	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 18:03	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 18:03	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 18:03	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 18:03	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 18:03	9/8/17	
Phenol	ND U	9.4	1	09/11/17 18:03	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 18:03	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	71	35 - 141	09/11/17 18:03	
2-Fluorobiphenyl	70	31 - 118	09/11/17 18:03	
2-Fluorophenol	33	10 - 105	09/11/17 18:03	
Nitrobenzene-d5	73	31 - 110	09/11/17 18:03	
Phenol-d6	29	10 - 107	09/11/17 18:03	
p-Terphenyl-d14	80	30 - 133	09/11/17 18:03	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35

Sample Name: MW-11M
Lab Code: R1708324-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 18:31	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 18:31	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 18:31	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 18:31	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 18:31	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 18:31	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 18:31	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 18:31	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 18:31	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:31	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 18:31	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:31	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 18:31	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 18:31	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 18:31	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 18:31	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 18:31	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 18:31	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 18:31	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 18:31	9/8/17	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35

Sample Name: MW-11M
Lab Code: R1708324-005

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 18:31	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 18:31	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 18:31	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 18:31	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 18:31	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 18:31	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 18:31	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 18:31	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 18:31	9/8/17	
Phenol	ND U	9.4	1	09/11/17 18:31	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 18:31	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	09/11/17 18:31	
2-Fluorobiphenyl	69	31 - 118	09/11/17 18:31	
2-Fluorophenol	37	10 - 105	09/11/17 18:31	
Nitrobenzene-d5	69	31 - 110	09/11/17 18:31	
Phenol-d6	32	10 - 107	09/11/17 18:31	
p-Terphenyl-d14	91	30 - 133	09/11/17 18:31	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35

Sample Name: MW-12S
Lab Code: R1708324-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 18:59	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 18:59	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 18:59	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 18:59	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 18:59	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 18:59	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 18:59	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 18:59	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 18:59	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:59	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 18:59	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 18:59	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 18:59	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 18:59	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 18:59	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 18:59	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 18:59	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 18:59	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 18:59	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 18:59	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35

Sample Name: MW-12S
Lab Code: R1708324-006

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 18:59	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 18:59	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 18:59	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 18:59	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 18:59	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 18:59	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 18:59	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 18:59	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 18:59	9/8/17	
Phenol	ND U	9.4	1	09/11/17 18:59	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 18:59	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	67	35 - 141	09/11/17 18:59	
2-Fluorobiphenyl	64	31 - 118	09/11/17 18:59	
2-Fluorophenol	33	10 - 105	09/11/17 18:59	
Nitrobenzene-d5	69	31 - 110	09/11/17 18:59	
Phenol-d6	29	10 - 107	09/11/17 18:59	
p-Terphenyl-d14	83	30 - 133	09/11/17 18:59	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35

Sample Name: MW-12M
Lab Code: R1708324-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 19:27	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 19:27	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 19:27	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 19:27	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 19:27	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 19:27	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 19:27	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 19:27	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 19:27	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 19:27	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 19:27	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 19:27	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 19:27	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 19:27	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 19:27	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 19:27	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 19:27	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 19:27	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 19:27	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 19:27	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35

Sample Name: MW-12M
Lab Code: R1708324-007

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 19:27	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 19:27	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 19:27	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 19:27	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 19:27	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 19:27	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 19:27	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 19:27	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 19:27	9/8/17	
Phenol	ND U	9.4	1	09/11/17 19:27	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 19:27	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	35 - 141	09/11/17 19:27	
2-Fluorobiphenyl	75	31 - 118	09/11/17 19:27	
2-Fluorophenol	38	10 - 105	09/11/17 19:27	
Nitrobenzene-d5	77	31 - 110	09/11/17 19:27	
Phenol-d6	33	10 - 107	09/11/17 19:27	
p-Terphenyl-d14	102	30 - 133	09/11/17 19:27	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35

Sample Name: MW-12D
Lab Code: R1708324-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 19:55	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 19:55	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 19:55	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 19:55	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 19:55	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 19:55	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 19:55	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 19:55	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 19:55	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 19:55	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 19:55	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 19:55	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 19:55	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 19:55	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 19:55	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 19:55	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 19:55	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 19:55	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 19:55	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 19:55	9/8/17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35

Sample Name: MW-12D
Lab Code: R1708324-008

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 19:55	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 19:55	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 19:55	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 19:55	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 19:55	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 19:55	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 19:55	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 19:55	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 19:55	9/8/17	
Phenol	ND U	9.4	1	09/11/17 19:55	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 19:55	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	09/11/17 19:55	
2-Fluorobiphenyl	69	31 - 118	09/11/17 19:55	
2-Fluorophenol	35	10 - 105	09/11/17 19:55	
Nitrobenzene-d5	71	31 - 110	09/11/17 19:55	
Phenol-d6	31	10 - 107	09/11/17 19:55	
p-Terphenyl-d14	94	30 - 133	09/11/17 19:55	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35

Sample Name: MW-13S
Lab Code: R1708324-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 20:23	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 20:23	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 20:23	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 20:23	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 20:23	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 20:23	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 20:23	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 20:23	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 20:23	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 20:23	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 20:23	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 20:23	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 20:23	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 20:23	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 20:23	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 20:23	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 20:23	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 20:23	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 20:23	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 20:23	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35

Sample Name: MW-13S
Lab Code: R1708324-009

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 20:23	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 20:23	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 20:23	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 20:23	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 20:23	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 20:23	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 20:23	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 20:23	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 20:23	9/8/17	
Phenol	ND U	9.4	1	09/11/17 20:23	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 20:23	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	35 - 141	09/11/17 20:23	
2-Fluorobiphenyl	71	31 - 118	09/11/17 20:23	
2-Fluorophenol	36	10 - 105	09/11/17 20:23	
Nitrobenzene-d5	75	31 - 110	09/11/17 20:23	
Phenol-d6	30	10 - 107	09/11/17 20:23	
p-Terphenyl-d14	91	30 - 133	09/11/17 20:23	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35

Sample Name: MW-13M
Lab Code: R1708324-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 20:51	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 20:51	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 20:51	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 20:51	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 20:51	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 20:51	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 20:51	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 20:51	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 20:51	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 20:51	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 20:51	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 20:51	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 20:51	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 20:51	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 20:51	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 20:51	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 20:51	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 20:51	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 20:51	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 20:51	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35

Sample Name: MW-13M
Lab Code: R1708324-010

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 20:51	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 20:51	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 20:51	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 20:51	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 20:51	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 20:51	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 20:51	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 20:51	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 20:51	9/8/17	
Phenol	ND U	9.4	1	09/11/17 20:51	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 20:51	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	09/11/17 20:51	
2-Fluorobiphenyl	70	31 - 118	09/11/17 20:51	
2-Fluorophenol	37	10 - 105	09/11/17 20:51	
Nitrobenzene-d5	70	31 - 110	09/11/17 20:51	
Phenol-d6	31	10 - 107	09/11/17 20:51	
p-Terphenyl-d14	97	30 - 133	09/11/17 20:51	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35

Sample Name: MW-14S
Lab Code: R1708324-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
1,2-Dichlorobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
1,3-Dichlorobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
1,4-Dichlorobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,4,5-Trichlorophenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,4,6-Trichlorophenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,4-Dichlorophenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,4-Dimethylphenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,4-Dinitrophenol	ND U	47	1	09/11/17 21:20	9/8/17	
2,4-Dinitrotoluene	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,6-Dinitrotoluene	ND U	9.4	1	09/11/17 21:20	9/8/17	
2-Chloronaphthalene	ND U	9.4	1	09/11/17 21:20	9/8/17	
2-Chlorophenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2-Methylnaphthalene	ND U	9.4	1	09/11/17 21:20	9/8/17	
2-Methylphenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2-Nitroaniline	ND U	47	1	09/11/17 21:20	9/8/17	
2-Nitrophenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
3,3'-Dichlorobenzidine	ND U	9.4	1	09/11/17 21:20	9/8/17	
3- and 4-Methylphenol Coelution	ND U	9.4	1	09/11/17 21:20	9/8/17	
3-Nitroaniline	ND U	47	1	09/11/17 21:20	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	47	1	09/11/17 21:20	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	9.4	1	09/11/17 21:20	9/8/17	
4-Chloro-3-methylphenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
4-Chloroaniline	ND U	9.4	1	09/11/17 21:20	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	9.4	1	09/11/17 21:20	9/8/17	
4-Nitroaniline	ND U	47	1	09/11/17 21:20	9/8/17	
4-Nitrophenol	ND U	47	1	09/11/17 21:20	9/8/17	
Acenaphthene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Acenaphthylene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Anthracene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benz(a)anthracene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benzo(a)pyrene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benzo(b)fluoranthene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benzo(g,h,i)perylene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benzo(k)fluoranthene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Benzyl Alcohol	ND U	9.4	1	09/11/17 21:20	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	9.4	1	09/11/17 21:20	9/8/17	
Bis(2-chloroethoxy)methane	ND U	9.4	1	09/11/17 21:20	9/8/17	
Bis(2-chloroethyl) Ether	ND U	9.4	1	09/11/17 21:20	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Butyl Benzyl Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Carbazole	ND U	9.4	1	09/11/17 21:20	9/8/17	
Chrysene	ND U	9.4	1	09/11/17 21:20	9/8/17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35

Sample Name: MW-14S
Lab Code: R1708324-011

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Di-n-octyl Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Dibenz(a,h)anthracene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Dibenzofuran	ND U	9.4	1	09/11/17 21:20	9/8/17	
Diethyl Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Dimethyl Phthalate	ND U	9.4	1	09/11/17 21:20	9/8/17	
Fluoranthene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Fluorene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Hexachlorobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Hexachlorobutadiene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Hexachlorocyclopentadiene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Hexachloroethane	ND U	9.4	1	09/11/17 21:20	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Isophorone	ND U	9.4	1	09/11/17 21:20	9/8/17	
N-Nitrosodi-n-propylamine	ND U	9.4	1	09/11/17 21:20	9/8/17	
N-Nitrosodimethylamine	ND U	9.4	1	09/11/17 21:20	9/8/17	
N-Nitrosodiphenylamine	ND U	9.4	1	09/11/17 21:20	9/8/17	
Naphthalene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Nitrobenzene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Pentachlorophenol (PCP)	ND U	47	1	09/11/17 21:20	9/8/17	
Phenanthrene	ND U	9.4	1	09/11/17 21:20	9/8/17	
Phenol	ND U	9.4	1	09/11/17 21:20	9/8/17	
Pyrene	ND U	9.4	1	09/11/17 21:20	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	09/11/17 21:20	
2-Fluorobiphenyl	66	31 - 118	09/11/17 21:20	
2-Fluorophenol	35	10 - 105	09/11/17 21:20	
Nitrobenzene-d5	69	31 - 110	09/11/17 21:20	
Phenol-d6	30	10 - 107	09/11/17 21:20	
p-Terphenyl-d14	84	30 - 133	09/11/17 21:20	



Metals

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Sample Name: MW-10S
Lab Code: R1708324-001

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:35	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:35	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-10M
Lab Code: R1708324-002

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:38	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:38	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-10D
Lab Code: R1708324-003

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:42	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:42	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Sample Name: MW-11S
Lab Code: R1708324-004

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:45	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:45	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-11M
Lab Code: R1708324-005

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:48	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:48	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-12S
Lab Code: R1708324-006

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:52	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:52	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-12M
Lab Code: R1708324-007

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:55	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:55	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-12D
Lab Code: R1708324-008

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 04:58	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 04:58	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-13S
Lab Code: R1708324-009

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 05:08	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 05:08	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-13M
Lab Code: R1708324-010

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 05:12	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 05:12	09/11/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-14S
Lab Code: R1708324-011

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 05:15	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 05:15	09/11/17	



General Chemistry

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-10S
Lab Code: R1708324-001

Service Request: R1708324
Date Collected: 09/06/17 10:00
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-10M
Lab Code: R1708324-002

Service Request: R1708324
Date Collected: 09/06/17 10:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Sample Name: MW-10D
Lab Code: R1708324-003

Service Request: R1708324
Date Collected: 09/06/17 10:30
Date Received: 09/06/17 15:35

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Sample Name: MW-11S
Lab Code: R1708324-004

Service Request: R1708324
Date Collected: 09/06/17 11:15
Date Received: 09/06/17 15:35

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-11M
Lab Code: R1708324-005

Service Request: R1708324
Date Collected: 09/06/17 11:30
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Sample Name: MW-12S
Lab Code: R1708324-006

Service Request: R1708324
Date Collected: 09/06/17 11:45
Date Received: 09/06/17 15:35

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-12M
Lab Code: R1708324-007

Service Request: R1708324
Date Collected: 09/06/17 12:00
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-12D
Lab Code: R1708324-008

Service Request: R1708324
Date Collected: 09/06/17 12:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-13S
Lab Code: R1708324-009

Service Request: R1708324
Date Collected: 09/06/17 13:00
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.8	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-13M
Lab Code: R1708324-010

Service Request: R1708324
Date Collected: 09/06/17 13:15
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: MW-14S
Lab Code: R1708324-011

Service Request: R1708324
Date Collected: 09/06/17 13:30
Date Received: 09/06/17 15:35
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	4.7	1	09/15/17 09:30	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
MW-10S	R1708324-001	97	96	98
MW-10M	R1708324-002	95	98	104
MW-10D	R1708324-003	98	99	100
MW-11S	R1708324-004	97	101	101
MW-11M	R1708324-005	100	98	102
MW-12S	R1708324-006	102	100	102
MW-12M	R1708324-007	102	97	102
MW-12D	R1708324-008	101	102	100
MW-13S	R1708324-009	101	103	101
MW-13M	R1708324-010	102	101	102
MW-14S	R1708324-011	98	96	99
TB-A	R1708324-012	102	99	103
TB-B	R1708324-013	103	99	102
TB-C	R1708324-014	101	97	103
Lab Control Sample	RQ1709023-03	102	103	100
Method Blank	RQ1709023-04	100	100	101

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1709023-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	ND U	10	1	09/08/17 12:04	
Benzene	ND U	5.0	1	09/08/17 12:04	
Bromodichloromethane	ND U	5.0	1	09/08/17 12:04	
Bromoform	ND U	5.0	1	09/08/17 12:04	
Bromomethane	ND U	5.0	1	09/08/17 12:04	
2-Butanone (MEK)	ND U	10	1	09/08/17 12:04	
Carbon Disulfide	ND U	10	1	09/08/17 12:04	
Carbon Tetrachloride	ND U	5.0	1	09/08/17 12:04	
Chlorobenzene	ND U	5.0	1	09/08/17 12:04	
Chloroethane	ND U	5.0	1	09/08/17 12:04	
Chloroform	ND U	5.0	1	09/08/17 12:04	
Chloromethane	ND U	5.0	1	09/08/17 12:04	
Dibromochloromethane	ND U	5.0	1	09/08/17 12:04	
1,1-Dichloroethane	ND U	5.0	1	09/08/17 12:04	
1,2-Dichloroethane	ND U	5.0	1	09/08/17 12:04	
1,1-Dichloroethene	ND U	5.0	1	09/08/17 12:04	
cis-1,2-Dichloroethene	ND U	5.0	1	09/08/17 12:04	
trans-1,2-Dichloroethene	ND U	5.0	1	09/08/17 12:04	
1,2-Dichloropropane	ND U	5.0	1	09/08/17 12:04	
cis-1,3-Dichloropropene	ND U	5.0	1	09/08/17 12:04	
trans-1,3-Dichloropropene	ND U	5.0	1	09/08/17 12:04	
Ethylbenzene	ND U	5.0	1	09/08/17 12:04	
2-Hexanone	ND U	10	1	09/08/17 12:04	
Methylene Chloride	ND U	5.0	1	09/08/17 12:04	
4-Methyl-2-pentanone (MIBK)	ND U	10	1	09/08/17 12:04	
Styrene	ND U	5.0	1	09/08/17 12:04	
1,1,2,2-Tetrachloroethane	ND U	5.0	1	09/08/17 12:04	
Tetrachloroethene	ND U	5.0	1	09/08/17 12:04	
Toluene	ND U	5.0	1	09/08/17 12:04	
1,1,1-Trichloroethane	ND U	5.0	1	09/08/17 12:04	
1,1,2-Trichloroethane	ND U	5.0	1	09/08/17 12:04	
Trichloroethene	ND U	5.0	1	09/08/17 12:04	
Vinyl Chloride	ND U	5.0	1	09/08/17 12:04	
o-Xylene	ND U	5.0	1	09/08/17 12:04	
m,p-Xylenes	ND U	5.0	1	09/08/17 12:04	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1709023-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/08/17 12:04	
Toluene-d8	101	87 - 121	09/08/17 12:04	
Dibromofluoromethane	100	89 - 119	09/08/17 12:04	

ALS Group USA, Corp.
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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/08/17

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1709023-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	16.8	20.0	84	40-161
Benzene	8260C	18.7	20.0	94	76-118
Bromodichloromethane	8260C	19.8	20.0	99	78-126
Bromoform	8260C	19.6	20.0	98	71-136
Bromomethane	8260C	13.7	20.0	68	42-166
2-Butanone (MEK)	8260C	17.4	20.0	87	61-137
Carbon Disulfide	8260C	20.4	20.0	102	65-127
Carbon Tetrachloride	8260C	19.0	20.0	95	68-125
Chlorobenzene	8260C	19.0	20.0	95	80-121
Chloroethane	8260C	21.6	20.0	108	70-127
Chloroform	8260C	19.6	20.0	98	76-120
Chloromethane	8260C	18.4	20.0	92	69-145
Dibromochloromethane	8260C	18.0	20.0	90	77-128
1,1-Dichloroethane	8260C	20.0	20.0	100	78-117
1,2-Dichloroethane	8260C	18.3	20.0	92	71-127
1,1-Dichloroethene	8260C	18.0	20.0	90	74-135
cis-1,2-Dichloroethene	8260C	18.5	20.0	93	80-121
trans-1,2-Dichloroethene	8260C	19.0	20.0	95	80-120
1,2-Dichloropropane	8260C	18.0	20.0	90	80-119
cis-1,3-Dichloropropene	8260C	19.7	20.0	98	74-126
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	67-135
Ethylbenzene	8260C	20.2	20.0	101	76-120
2-Hexanone	8260C	16.9	20.0	84	63-124
Methylene Chloride	8260C	19.3	20.0	97	73-122
4-Methyl-2-pentanone (MIBK)	8260C	16.6	20.0	83	66-124
Styrene	8260C	21.2	20.0	106	80-124
1,1,2,2-Tetrachloroethane	8260C	19.0	20.0	95	78-122
Tetrachloroethene	8260C	19.3	20.0	97	78-124
Toluene	8260C	19.8	20.0	99	77-120
1,1,1-Trichloroethane	8260C	19.7	20.0	98	74-120
1,1,2-Trichloroethane	8260C	17.9	20.0	90	82-118
Trichloroethene	8260C	18.3	20.0	91	78-123
Vinyl Chloride	8260C	23.2	20.0	116	69-133

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/08/17

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L**Basis:**NA**Lab Control Sample**

RQ1709023-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	19.3	20.0	96	80-120
m,p-Xylenes	8260C	40.0	40.0	100	78-123



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35 - 141	31 - 118	10 - 105
MW-10S	R1708324-001	84	77	36
MW-10M	R1708324-002	83	77	36
MW-10D	R1708324-003	80	77	37
MW-11S	R1708324-004	71	70	33
MW-11M	R1708324-005	76	69	37
MW-12S	R1708324-006	67	64	33
MW-12M	R1708324-007	85	75	38
MW-12D	R1708324-008	79	69	35
MW-13S	R1708324-009	83	71	36
MW-13M	R1708324-010	82	70	37
MW-14S	R1708324-011	78	66	35
Method Blank	RQ1709018-01	90	76	41
Lab Control Sample	RQ1709018-02	87	86	45
Duplicate Lab Control Sample	RQ1709018-03	79	74	40

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	p-Terphenyl-d14
		31 - 110	10 - 107	30 - 133
MW-10S	R1708324-001	80	31	91
MW-10M	R1708324-002	80	30	90
MW-10D	R1708324-003	85	31	96
MW-11S	R1708324-004	73	29	80
MW-11M	R1708324-005	69	32	91
MW-12S	R1708324-006	69	29	83
MW-12M	R1708324-007	77	33	102
MW-12D	R1708324-008	71	31	94
MW-13S	R1708324-009	75	30	91
MW-13M	R1708324-010	70	31	97
MW-14S	R1708324-011	69	30	84
Method Blank	RQ1709018-01	85	36	98
Lab Control Sample	RQ1709018-02	90	39	103
Duplicate Lab Control Sample	RQ1709018-03	77	33	88

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1709018-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
1,2-Dichlorobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
1,3-Dichlorobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
1,4-Dichlorobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
2,4,5-Trichlorophenol	ND U	10	1	09/12/17 17:02	9/8/17	
2,4,6-Trichlorophenol	ND U	10	1	09/12/17 17:02	9/8/17	
2,4-Dichlorophenol	ND U	10	1	09/12/17 17:02	9/8/17	
2,4-Dimethylphenol	ND U	10	1	09/12/17 17:02	9/8/17	
2,4-Dinitrophenol	ND U	50	1	09/12/17 17:02	9/8/17	
2,4-Dinitrotoluene	ND U	10	1	09/12/17 17:02	9/8/17	
2,6-Dinitrotoluene	ND U	10	1	09/12/17 17:02	9/8/17	
2-Chloronaphthalene	ND U	10	1	09/12/17 17:02	9/8/17	
2-Chlorophenol	ND U	10	1	09/12/17 17:02	9/8/17	
2-Methylnaphthalene	ND U	10	1	09/12/17 17:02	9/8/17	
2-Methylphenol	ND U	10	1	09/12/17 17:02	9/8/17	
2-Nitroaniline	ND U	50	1	09/12/17 17:02	9/8/17	
2-Nitrophenol	ND U	10	1	09/12/17 17:02	9/8/17	
3,3'-Dichlorobenzidine	ND U	10	1	09/12/17 17:02	9/8/17	
3- and 4-Methylphenol Coelution	ND U	10	1	09/12/17 17:02	9/8/17	
3-Nitroaniline	ND U	50	1	09/12/17 17:02	9/8/17	
4,6-Dinitro-2-methylphenol	ND U	50	1	09/12/17 17:02	9/8/17	
4-Bromophenyl Phenyl Ether	ND U	10	1	09/12/17 17:02	9/8/17	
4-Chloro-3-methylphenol	ND U	10	1	09/12/17 17:02	9/8/17	
4-Chloroaniline	ND U	10	1	09/12/17 17:02	9/8/17	
4-Chlorophenyl Phenyl Ether	ND U	10	1	09/12/17 17:02	9/8/17	
4-Nitroaniline	ND U	50	1	09/12/17 17:02	9/8/17	
4-Nitrophenol	ND U	50	1	09/12/17 17:02	9/8/17	
Acenaphthene	ND U	10	1	09/12/17 17:02	9/8/17	
Acenaphthylene	ND U	10	1	09/12/17 17:02	9/8/17	
Anthracene	ND U	10	1	09/12/17 17:02	9/8/17	
Benz(a)anthracene	ND U	10	1	09/12/17 17:02	9/8/17	
Benzo(a)pyrene	ND U	10	1	09/12/17 17:02	9/8/17	
Benzo(b)fluoranthene	ND U	10	1	09/12/17 17:02	9/8/17	
Benzo(g,h,i)perylene	ND U	10	1	09/12/17 17:02	9/8/17	
Benzo(k)fluoranthene	ND U	10	1	09/12/17 17:02	9/8/17	
Benzyl Alcohol	ND U	10	1	09/12/17 17:02	9/8/17	
2,2'-Oxybis(1-chloropropane)	ND U	10	1	09/12/17 17:02	9/8/17	
Bis(2-chloroethoxy)methane	ND U	10	1	09/12/17 17:02	9/8/17	
Bis(2-chloroethyl) Ether	ND U	10	1	09/12/17 17:02	9/8/17	
Bis(2-ethylhexyl) Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Butyl Benzyl Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Carbazole	ND U	10	1	09/12/17 17:02	9/8/17	
Chrysene	ND U	10	1	09/12/17 17:02	9/8/17	

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1709018-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Di-n-octyl Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Dibenz(a,h)anthracene	ND U	10	1	09/12/17 17:02	9/8/17	
Dibenzofuran	ND U	10	1	09/12/17 17:02	9/8/17	
Diethyl Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Dimethyl Phthalate	ND U	10	1	09/12/17 17:02	9/8/17	
Fluoranthene	ND U	10	1	09/12/17 17:02	9/8/17	
Fluorene	ND U	10	1	09/12/17 17:02	9/8/17	
Hexachlorobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
Hexachlorobutadiene	ND U	10	1	09/12/17 17:02	9/8/17	
Hexachlorocyclopentadiene	ND U	10	1	09/12/17 17:02	9/8/17	
Hexachloroethane	ND U	10	1	09/12/17 17:02	9/8/17	
Indeno(1,2,3-cd)pyrene	ND U	10	1	09/12/17 17:02	9/8/17	
Isophorone	ND U	10	1	09/12/17 17:02	9/8/17	
N-Nitrosodi-n-propylamine	ND U	10	1	09/12/17 17:02	9/8/17	
N-Nitrosodimethylamine	ND U	10	1	09/12/17 17:02	9/8/17	
N-Nitrosodiphenylamine	ND U	10	1	09/12/17 17:02	9/8/17	
Naphthalene	ND U	10	1	09/12/17 17:02	9/8/17	
Nitrobenzene	ND U	10	1	09/12/17 17:02	9/8/17	
Pentachlorophenol (PCP)	ND U	50	1	09/12/17 17:02	9/8/17	
Phenanthrene	ND U	10	1	09/12/17 17:02	9/8/17	
Phenol	ND U	10	1	09/12/17 17:02	9/8/17	
Pyrene	ND U	10	1	09/12/17 17:02	9/8/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	90	35 - 141	09/12/17 17:02	
2-Fluorobiphenyl	76	31 - 118	09/12/17 17:02	
2-Fluorophenol	41	10 - 105	09/12/17 17:02	
Nitrobenzene-d5	85	31 - 110	09/12/17 17:02	
Phenol-d6	36	10 - 107	09/12/17 17:02	
p-Terphenyl-d14	98	30 - 133	09/12/17 17:02	

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/12/17

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ1709018-02					Duplicate Lab Control Sample RQ1709018-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	8270D	65.9	100	66	54.8	100	55	10-127	18	30
1,2-Dichlorobenzene	8270D	64.0	100	64	54.5	100	54	23-130	17	30
1,3-Dichlorobenzene	8270D	59.7	100	60	52.4	100	52	21-90	14	30
1,4-Dichlorobenzene	8270D	59.4	100	59	50.0	100	50	10-124	17	30
2,4,5-Trichlorophenol	8270D	98.5	100	99	82.9	100	83	63-121	18	30
2,4,6-Trichlorophenol	8270D	96.2	100	96	87.9	100	88	64-116	9	30
2,4-Dichlorophenol	8270D	97.3	100	97	80.4	100	80	52-111	19	30
2,4-Dimethylphenol	8270D	91.0	100	91	80.4	100	80	44-114	13	30
2,4-Dinitrophenol	8270D	93.6	100	94	82.9	100	83	10-160	12	30
2,4-Dinitrotoluene	8270D	91.4	100	91	82.9	100	83	62-142	9	30
2,6-Dinitrotoluene	8270D	97.5	100	98	85.3	100	85	61-139	14	30
2-Chloronaphthalene	8270D	73.0	100	73	67.3	100	67	53-98	9	30
2-Chlorophenol	8270D	81.9	100	82	69.9	100	70	42-112	16	30
2-Methylnaphthalene	8270D	73.6	100	74	66.5	100	67	34-102	10	30
2-Methylphenol	8270D	75.2	100	75	65.2	100	65	59-104	14	30
2-Nitroaniline	8270D	104	100	104	88.4	100	88	52-133	17	30
2-Nitrophenol	8270D	102	100	102	88.6	100	89	51-115	14	30
3,3'-Dichlorobenzidine	8270D	89.0	100	89	80.0	100	80	45-122	11	30
3- and 4-Methylphenol Coelution	8270D	68.8	100	69	60.2	100	60	50-111	14	30
3-Nitroaniline	8270D	78.4	100	78	71.4	100	71	48-115	9	30
4,6-Dinitro-2-methylphenol	8270D	113	100	113	101	100	101	35-168	11	30
4-Bromophenyl Phenyl Ether	8270D	81.4	100	81	72.6	100	73	65-113	10	30
4-Chloro-3-methylphenol	8270D	96.8	100	97	80.7	100	81	52-113	18	30
4-Chloroaniline	8270D	86.2	100	86	71.0	100	71	47-104	19	30
4-Chlorophenyl Phenyl Ether	8270D	75.6	100	76	69.7	100	70	61-110	8	30
4-Nitroaniline	8270D	89.1	100	89	77.1	100	77	54-133	14	30
4-Nitrophenol	8270D	39.3 J	100	39	34.0 J	100	34	10-126	14	30
Acenaphthene	8270D	84.3	100	84	76.9	100	77	54-125	9	30
Acenaphthylene	8270D	85.4	100	85	76.8	100	77	60-106	10	30
Anthracene	8270D	97.0	100	97	85.2	100	85	55-116	13	30
Benz(a)anthracene	8270D	96.7	100	97	82.7	100	83	66-110	16	30
Benzo(a)pyrene	8270D	97.2	100	97	84.4	100	84	44-114	14	30
Benzo(b)fluoranthene	8270D	92.0	100	92	79.0	100	79	69-117	15	30

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/12/17

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ1709018-02					Duplicate Lab Control Sample RQ1709018-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	8270D	104	100	104	91.8	100	92	63-136	12	30
Benzo(k)fluoranthene	8270D	94.9	100	95	81.9	100	82	49-133	15	30
Benzyl Alcohol	8270D	75.7	100	76	63.9	100	64	31-109	17	30
2,2'-Oxybis(1-chloropropane)	8270D	69.9	100	70	61.2	100	61	47-132	14	30
Bis(2-chloroethoxy)methane	8270D	84.7	100	85	71.5	100	72	55-110	17	30
Bis(2-chloroethyl) Ether	8270D	71.3	100	71	61.4	100	61	56-102	15	30
Bis(2-ethylhexyl) Phthalate	8270D	102	100	102	88.1	100	88	70-132	15	30
Butyl Benzyl Phthalate	8270D	100	100	100	86.1	100	86	41-148	15	30
Carbazole	8270D	103	100	103	90.2	100	90	61-126	13	30
Chrysene	8270D	96.8	100	97	81.8	100	82	57-118	17	30
Di-n-butyl Phthalate	8270D	100	100	100	90.6	100	91	57-139	9	30
Di-n-octyl Phthalate	8270D	99.5	100	100	84.5	100	84	70-134	17	30
Dibenz(a,h)anthracene	8270D	101	100	101	85.9	100	86	58-132	16	30
Dibenzofuran	8270D	85.4	100	85	77.1	100	77	62-105	10	30
Diethyl Phthalate	8270D	83.3	100	83	73.6	100	74	65-122	11	30
Dimethyl Phthalate	8270D	83.8	100	84	73.8	100	74	58-119	13	30
Fluoranthene	8270D	98.0	100	98	86.3	100	86	66-127	13	30
Fluorene	8270D	82.4	100	82	73.1	100	73	66-110	12	30
Hexachlorobenzene	8270D	92.3	100	92	82.6	100	83	68-115	10	30
Hexachlorobutadiene	8270D	66.2	100	66	55.5	100	56	16-95	16	30
Hexachlorocyclopentadiene	8270D	57.5	100	58	51.7	100	52	10-99	11	30
Hexachloroethane	8270D	55.9	100	56	48.1	100	48	15-92	15	30
Indeno(1,2,3-cd)pyrene	8270D	107	100	107	93.6	100	94	65-124	13	30
Isophorone	8270D	84.3	100	84	71.9	100	72	50-116	15	30
N-Nitrosodi-n-propylamine	8270D	77.0	100	77	66.5	100	67	49-115	14	30
N-Nitrosodimethylamine	8270D	60.4	100	60	48.8	100	49	31-70	20	30
N-Nitrosodiphenylamine	8270D	96.2	100	96	86.7	100	87	45-123	10	30
Naphthalene	8270D	75.9	100	76	66.2	100	66	36-95	14	30
Nitrobenzene	8270D	82.5	100	83	71.1	100	71	46-108	16	30
Pentachlorophenol (PCP)	8270D	98.5	100	99	87.0	100	87	41-154	13	30
Phenanthrene	8270D	95.8	100	96	86.0	100	86	58-118	11	30
Phenol	8270D	35.2	100	35	29.9	100	30	10-113	15	30
Pyrene	8270D	95.6	100	96	83.2	100	83	69-127	15	30



Metals

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1708324-MB1

Service Request: R1708324
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 03:48	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 03:48	09/11/17	

ALS Group USA, Corp.
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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1708324-MB2

Service Request: R1708324
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Dissolved	6010C	ND U	ug/L	10	1	09/13/17 03:52	09/11/17	
Lead, Dissolved	6010C	ND U	ug/L	50	1	09/13/17 03:52	09/11/17	

ALS Group USA, Corp.

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/13/17

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L**Basis:**NA**Lab Control Sample**

R1708324-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	41	40	104	80-120
Lead, Dissolved	6010C	522	500	104	80-120



General Chemistry

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Analytical Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1708324-MB

Service Request: R1708324
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Oil and Grease, Total (HEM)	1664A	ND U	mg/L	5.0	1	09/15/17 09:30	

ALS Group USA, Corp.

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QA/QC Report

Client: Unicorn Management Consultants
Project: Union Road/2011-100
Sample Matrix: Water

Service Request: R1708324
Date Analyzed: 09/15/17

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R1708324-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Oil and Grease, Total (HEM)	1664A	41.3	40.2	103	78-114



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. 915128	Site Details	Box 1
Site Name Union Road Site		
Site Address: Losson Road Zip Code: 14110 City/Town: Cheektowaga County: Erie Site Acreage: 23.0		
Reporting Period: December 26, 2016 to December 26, 2017		
		YES NO
1. Is the information above correct?		☒ ☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

	Box 2
	YES NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control

114.17-1-2

Witben Realty C/O Universal Marion Corp.

Landuse Restriction
Monitoring Plan
O&M Plan

Site O&M Plan & Reporting per Order on Consent.

Ground Water Use Restriction

114.17-1-3.1

Universal Marion Corp.

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
O&M Plan

Site O&M Plan & Reporting per Order on Consent.

Description of Engineering ControlsParcelEngineering Control

114.17-1-2

Cover System
Groundwater Treatment System
Fencing/Access Control

114.17-1-3.1

Groundwater Treatment System
Cover System
Fencing/Access Control

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915128

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael Persico at 52 Federal Road, Suite 2C, Danbury CT
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

1/9/18
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael O'Connor at 52 Federal Rd. Suite 2C Danbury CT 06810
print name print business address

am certifying as a Qualified Environmental Professional for the Remedial Party
(Owner or Remedial Party)

Michael O'Connor
Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

1/9/18
Date