Enclosure 2

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

Site Details **Box 1**

Site No. 915128

Site Name Union Road Site

Site Address: Losson Road Zip Code: 14110
City/Town: Cheektowaga
County: Erie
Site Acreage: 23.0

RECEIVED
JAN 26 2015
NYS DEC
REGION 9

Reporting Period: December 26, 2013 to December 26, 2014

	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

SITE NO. 915128 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
114.17-1-2	Witben Realty C/O Universal Marion	Landuse Restriction Monitoring Plan O&M Plan Ground Water Use Restriction

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

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.

Box 4

Description of Engineering Controls

Parcel	Engineering 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

Box 5

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 compete.

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 Pessina (print name) at 52 Federal Road, Suite 2C, Danbury, CT (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

Date 1/20/15

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 (print name) at 52 Federal Rd Suite 2C Danbury, CT (print business address)

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

M Michael O'Connor

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

1/20/15

Date

52 Federal Road, Suite 2C
Danbury, CT 06810
Tele: (203) 205-9000
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www.unicornmgt.com

Unicorn Management Consultants, LLC

ANNUAL GROUNDWATER MONITORING REPORT
CLOSURE YEAR 18 (2014)

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 23, 2015

Document Authorization Form

Annual Groundwater Monitoring Report
Closure Year 18 (2014)

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 23, 2015

AUTHORIZATIONS:

Michael J. O'Connor, LEP, PG.
Manager of Environmental Projects

1/23/15
Date

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APPENDIX B LABORATORY REPORT (ON CD)

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.

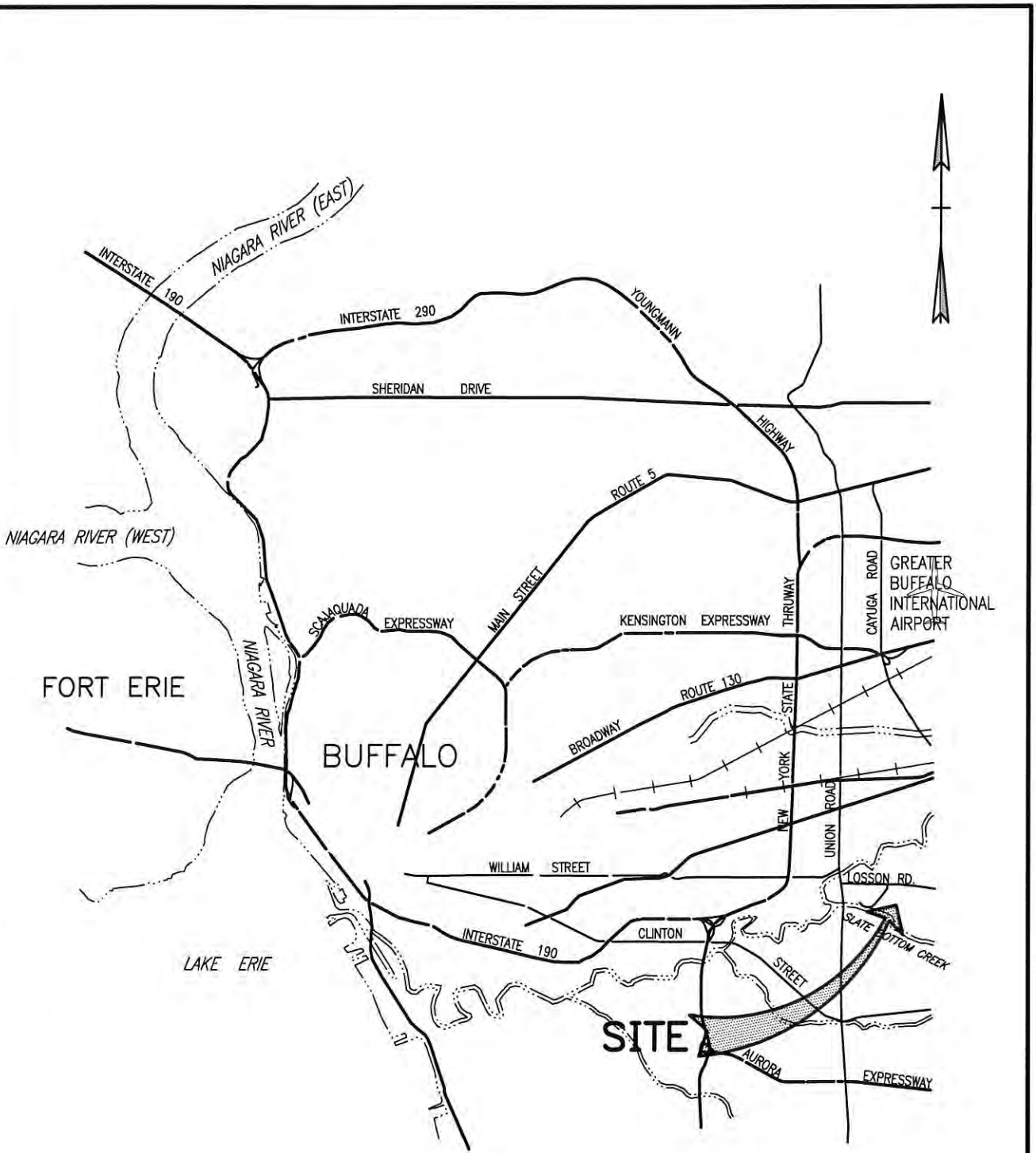
The Union Road site ("the Site") is a Class 4 Site as defined by the New York State Department of Environmental Conservation (NYSDEC). The Site registry number is 915128. The Site is located at 333 Losson Road in Cheektowaga, New York (see Figure 1-1). A Record of Decision (ROD) for the Site was signed 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.

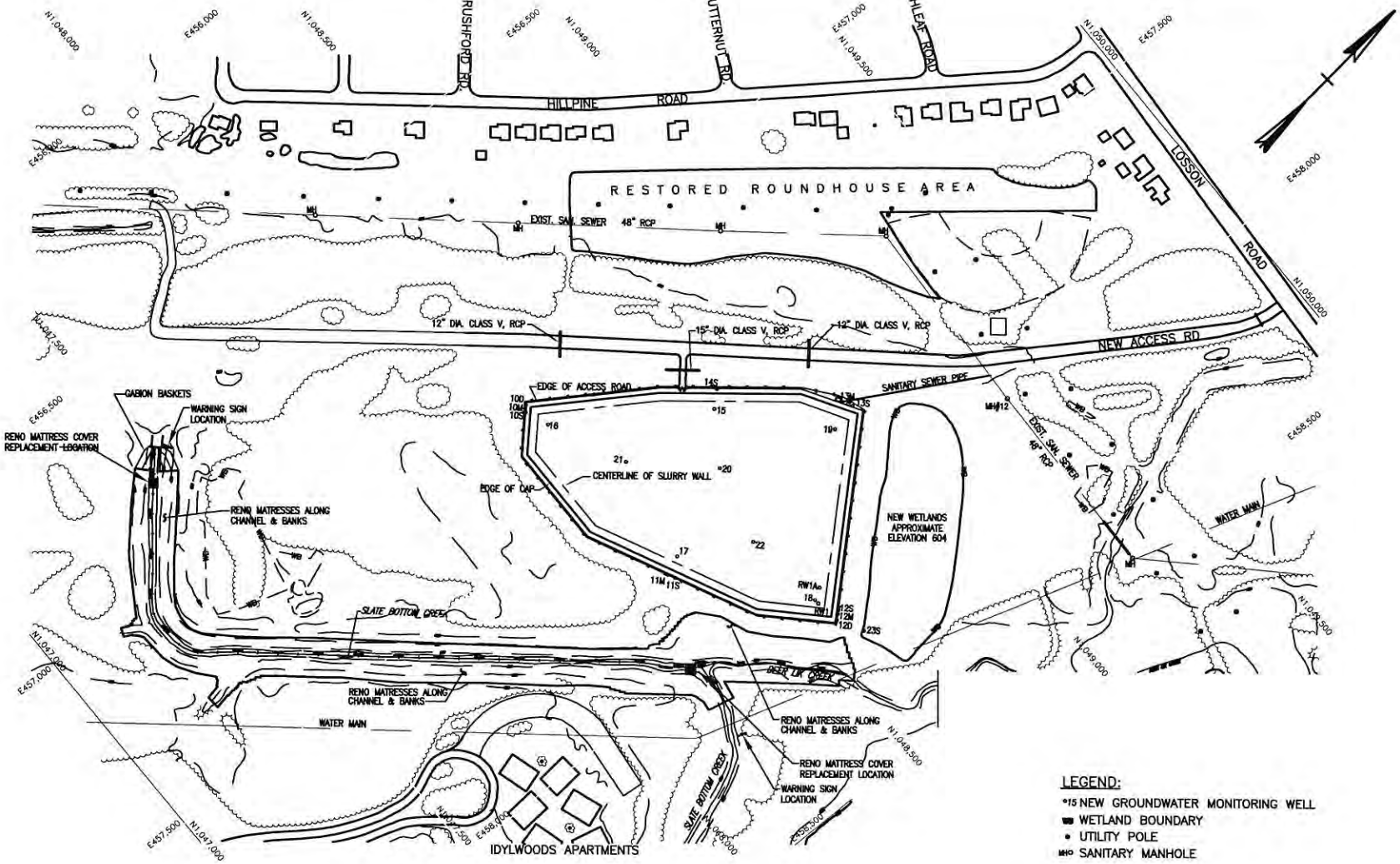
The GMP, Inspection and Operation and Maintenance activities for the Site went into effect following the landfill closure. This report presents and summarizes the groundwater monitoring data for the Annual Monitoring of Closure Year 18 (2014). This is the 22nd sampling event since the landfill closure (December 1997).

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



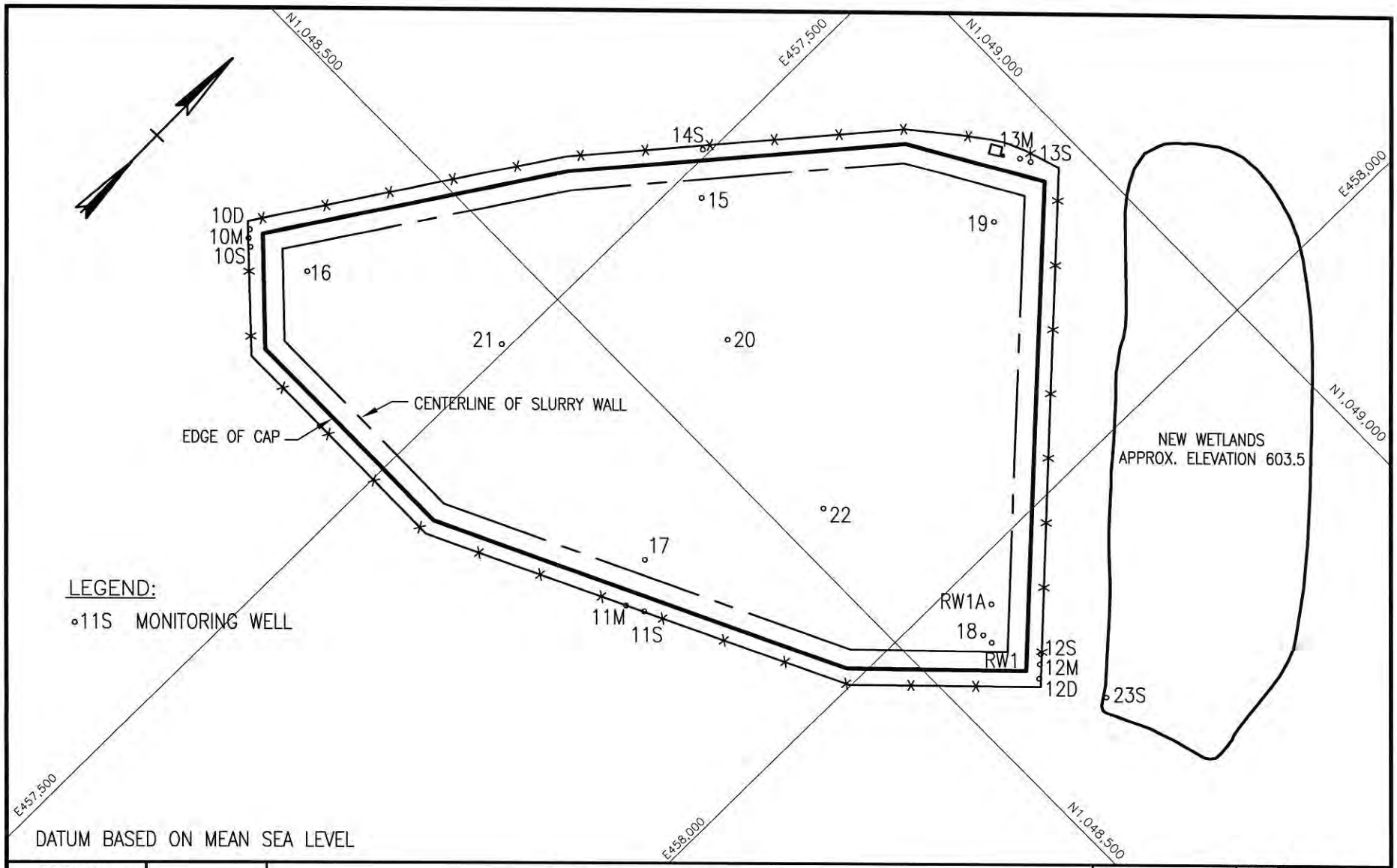
REVISIONS		PROJECT	UNION ROAD SITE TOWN OF CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011-200 FILENAME: 2045100B SCALE: 1"=400' DATE: 8/23/06 BY: AD CK: FIGURE # 1-2
NO.	DATE				
		DRAWING	SITE LOCATION		

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 NO.	REVISIONS DATE

PROJECT: UNION ROAD SITE
TOWN OF CHEEKTOWAGA, NEW YORK

DRAWING: GROUNDWATER MONITORING WELL LOCATIONS

Unicorn Management Consultants, LLC
52 FEDERAL ROAD
DANBURY, CT
(203) 205-9000

PROJECT #: 2011-200
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 2014 was conducted on September 25, 2014. 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.

Bis(2-ethylhexyl)phthalate was detected in MW-11M at 50 µg/L and MW-12D at 22 µg/L, but was not detected in any other sample collected. Bis(2-ethylhexyl)phthalate has been detected in monitoring wells 10D, 11M, and 12D at similar concentrations between 2001 and 2006. No other SVOCs were detected in any of the monitoring wells during this annual sampling event. Additionally no TPH, Arsenic, Lead, or VOCs were detected in any of the monitoring wells during this annual sampling event.

TABLE 3-1
UNION ROAD GROUNDWATER MONITORING REPORT
YEAR 18 (2014)

Unicorn Management Consultants, LLC

PRE-CONSTRUCTION SAMPLIN 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: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-2
UNION ROAD
GROUNDWATER MONITORING REPORT

Unicorn Management Consultants, LLC

September 25, 2014
WELL PURGING SUMMARY

Well Number	(1) Riser Elev. (Feet)	Orginal 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	10.48	612.61	12.71	2.0	6.20	
10M	622.50	589.6	13.74	608.76	19.16	3.1	9.20	
10D	622.02	574.1	16.73	605.29	31.19	5.0	7.00	
11S	622.74	597.1	16.60	606.14	9.04	1.4	4.40	
11M	622.86	578.4	21.51	601.35	22.95	3.7	9.70	
12S	622.62	595.8	22.47	600.15	4.35	0.7	1.40	
12M	622.97	578.8	22.50	600.47	21.67	3.5	10.60	
12D	621.18	557.8	19.62	601.56	43.76	7.0	21.00	
13S	622.96	599.1	13.29	609.67	10.57	1.7	5.10	
13M	621.66	585.8	13.12	608.54	22.74	3.6	7.00	
14S[(2)]	621.61	602.1	11.68	609.93	7.83	1.3	3.30	

(1) Elevations were surveyed by Douglas C. Meyers P.L.S., P.C. on March 17, 1997
(2) Reinstalled, developed and resurveyed on August 19, 1997
All Elevations are referenced to Mean Sea Level
All wells are two (2) inches in diameter
Well development was performed on 1/16/1997

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-3
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014

Unicorn Management Consultants, LLC

SHALLOW WELL SVOCs

	ANALYTICAL RESULTS (ug/L)					Detection Limit
ANALYTE	MW-10S	MW-11S	MW-12S	MW-13S	MW-14S	
Dilution	1.00	1.00	1.00	1.00	1.00	
acenapthene	ND	ND	ND	ND	ND	9.4
acenapthylene	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-butlyphthalate	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-chloronapthalene	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-dimethlyphenol	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-methlynapthalene	ND	ND	ND	ND	ND	9.4
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	47

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-3
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014

Unicorn Management Consultants, LLC

SHALLOW WELL SVOCs

4-chloro-3-methlyphenol	ND	ND	ND	ND	ND	9.4
2-methylphenol	ND	ND	ND	ND	ND	9.4
3+4-methylphenol	ND	ND	ND	ND	ND	9.4
napthalene	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: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-4
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014

Unicorn Management Consultants, LLC

SHALLOW WELL VOCs, TPH, and METALs

ANALYTE	ANALYTICAL RESULTS (ug/L)					Detection Limit
	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
ethlybenzene	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	
TPH	ND	ND	ND	ND	ND	4,700
SOLUBLE ARSENIC	ND	ND	ND	ND	ND	10
SOLUBLE LEAD	ND	ND	ND	ND	ND	50

Average Outside Landfill (MW 10S - 14S)	Average Inside Landfill (Table 3-1)
0	10
0.0	2,840
0.0	24
0.0	5,313

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-5
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014

Unicorn Management Consultants, LLC

MEDIUM WELL SVOCs

ANALYTE	ANALYTICAL RESULTS (ug/L)				Detection Limit
	MW-10M	MW-11M	MW-12M	MW-13M	
Dilution	1.00	1.00	1.00	1.00	
acenapthene	ND	ND	ND	ND	9.4
acenapthylene	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-butlyphthalate	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-dimethlyphenol	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	**50**	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-methlynapthalene	ND	ND	ND	ND	9.4

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-5
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014

Unicorn Management Consultants, LLC

MEDIUM WELL SVOCs

2-methylphenol	ND	ND	ND	ND	47
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	9.4
4-chloro-3-methlyphenol	ND	ND	ND	ND	9.4
3+4-methylphenol	ND	ND	ND	ND	9.4
napthalene	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	**50**	ND	ND	

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-6
UNION ROAD
ANNUAL GROUNDWATER MONITORNG
for 2014

Unicorn Management Consultants, LLC

MEDIUM WELL VOCs, TPH, and METALs

ANALYTE	ANALYTICAL RESULTS (ug/L)				Detection Limit
	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
ethlybenzene	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	4,700
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: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-7
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014
DEEP WELL SVOCs

Unicorn Management Consultants, LLC

ANALYTE	ANALYTICAL RESULTS (ug/L)		Detection Limit
	MW-10D	MW-12D	
Dilution	1.00	1.00	
acenapthene	ND	ND	9.4
acenapthylene	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-butlyphthalate	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-chloronapthalene	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-dimethlyphenol	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	**22**	9.4
fluoranthene	ND	ND	9.4
fluorene	ND	ND	9.4
hexachlorobenzene	ND	ND	9.4

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-7
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014
DEEP WELL SVOCs

Unicorn Management Consultants, LLC

hexachlorobutadiene	ND	ND	9.4
hexachlorocyclopentadiene	ND	ND	9.4
hexachloroethane	ND	ND	9.4
isophorone	ND	ND	9.4
2-methlynapthalene	ND	ND	9.4
2-methylphenol	ND	ND	47
4,6-dinitro-2-methylphenol	ND	ND	9.4
4-chloro-3-methlyphenol	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	**22**	

ND - Not Detected, above the laboratory detection limit

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 3-8
UNION ROAD
ANNUAL GROUNDWATER MONITORING
for 2014
DEEP WELL VOCs, TPH, and METALs

Unicorn Management Consultants, LLC

ANALYTE	ANALYTICAL RESULTS (ug/L)		Detection Limit
	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
ethlybenzene	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	4,700
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 25, 2014, 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 respectfully and has not been affected by the placement of the landfill closure.

Prepared by: MP
Date: 10/31/14
Checked by: MO
Date: 1/22/15

TABLE 4-1
UNION ROAD
GROUNDWATER MONITORING REPORT

Unicorn Management Consultants, LLC

GROUNDWATER WELL MEASUREMENTS
September 25, 2014

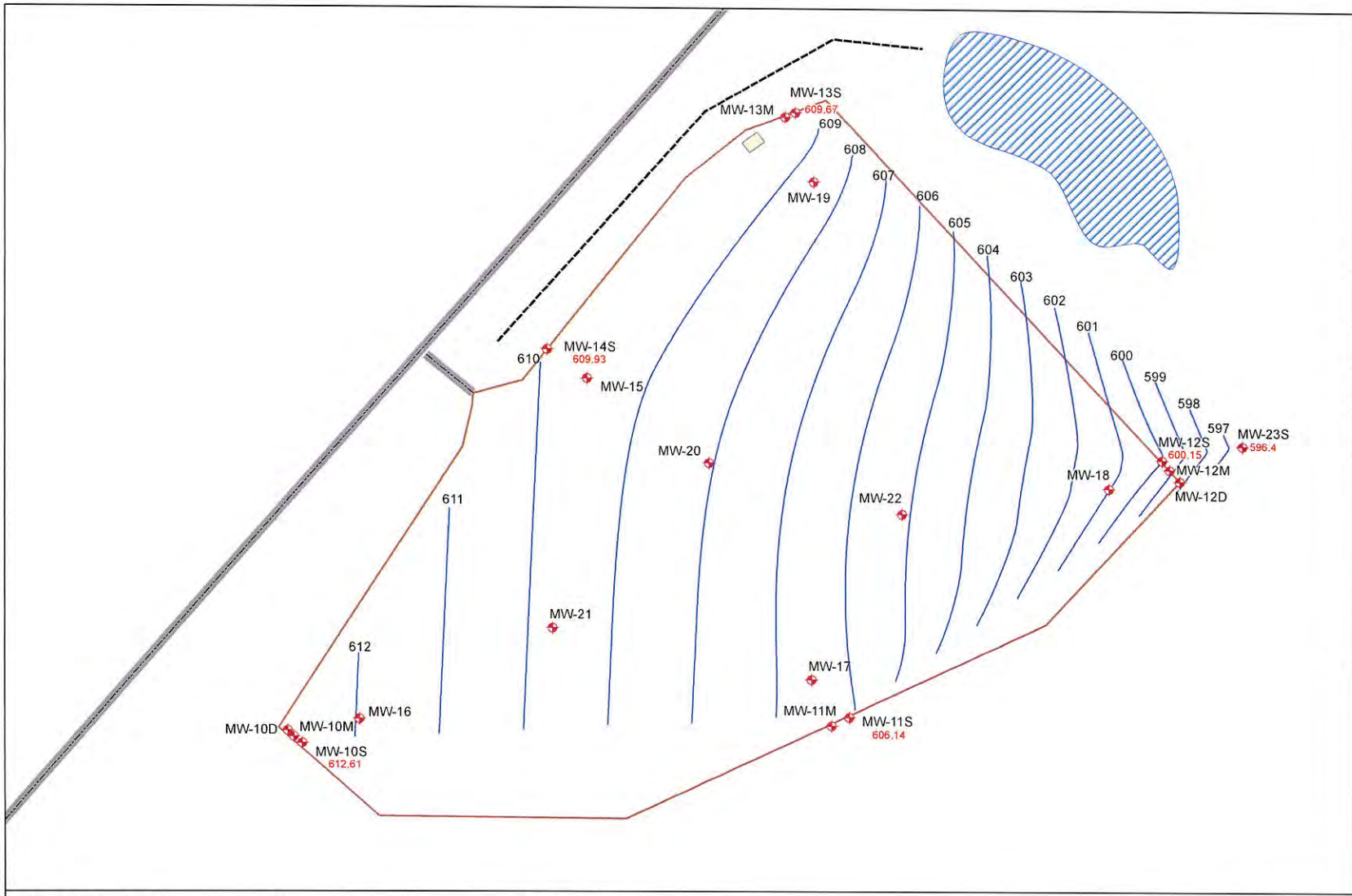
Well Number	Riser Elev.[1] (Feet)	Depth to Water (Feet)	Water Elev. (Feet)
10S	623.09	10.48	612.61
10M	622.50	13.74	608.76
10D	622.02	16.73	605.29
11S	622.74	16.60	606.14
11M	622.86	21.51	601.35
12S	622.62	22.47	600.15
12M	622.97	22.50	600.47
12D	621.18	19.62	601.56
13S	622.96	13.29	609.67
13M	621.66	13.12	608.54
14S[2]	621.61	11.68	609.93
15	624.67	16.61	608.06
16	624.51	15.31	609.20
17	624.44	28.01	596.43
18[3]	624.67	Dry	<602.75
19	625.08	21.42	603.66
20[4]	631.98	28.24	603.74
21	629.25	25.60	603.65
22[4]	629.24	25.75	603.49
23S	607.45	11.05	596.40
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.
[5] Groundwater measurement was not taken in RW1. The assumed elevation is at the pump inlet (598.76).

NM/NR: Not Measure/Not Recorded

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

All Elevations are referenced to Mean Sea Level



0 62.5 125 250 375 500 Feet

Union Road- Shallow Groundwater Elevation Contour Map for 9/25/14

Unicorn Management Consultants, LLC

52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

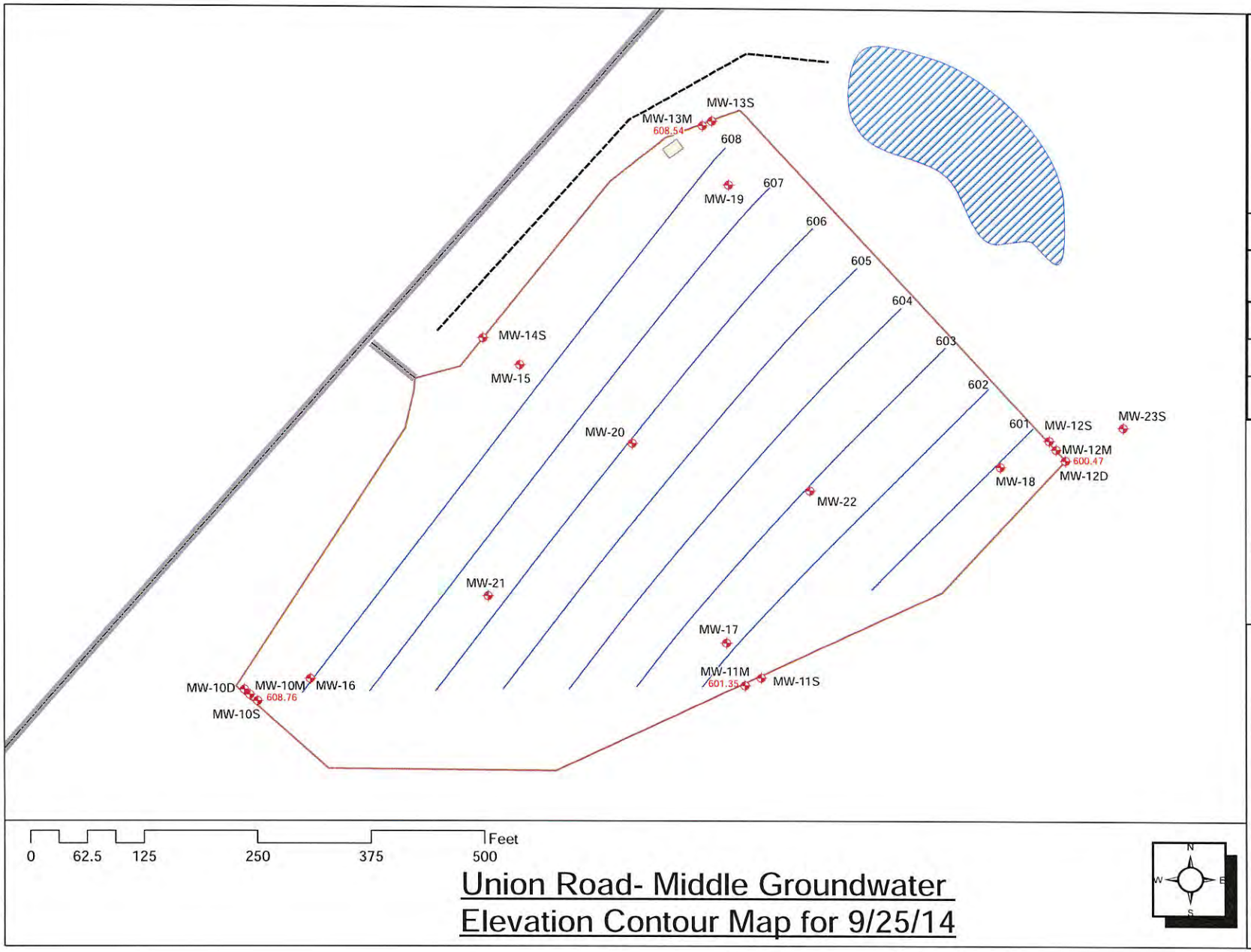
Project Name: Union Road

FIGURE 4-1

Author: RTM	**Checked By:** —
Project #: 2011	**Created:** 10/10/2011
	Revised: 1/20/15
Scale: 1 in:100 ft	**File:** GWContour_S_2014

Legend

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



Union Road- Middle Groundwater Elevation Contour Map for 9/25/14

Unicorn Management Consultants, LLC

52 Federal Road
Suite 2C
Danbury, CT
06810

(203) 205-9000

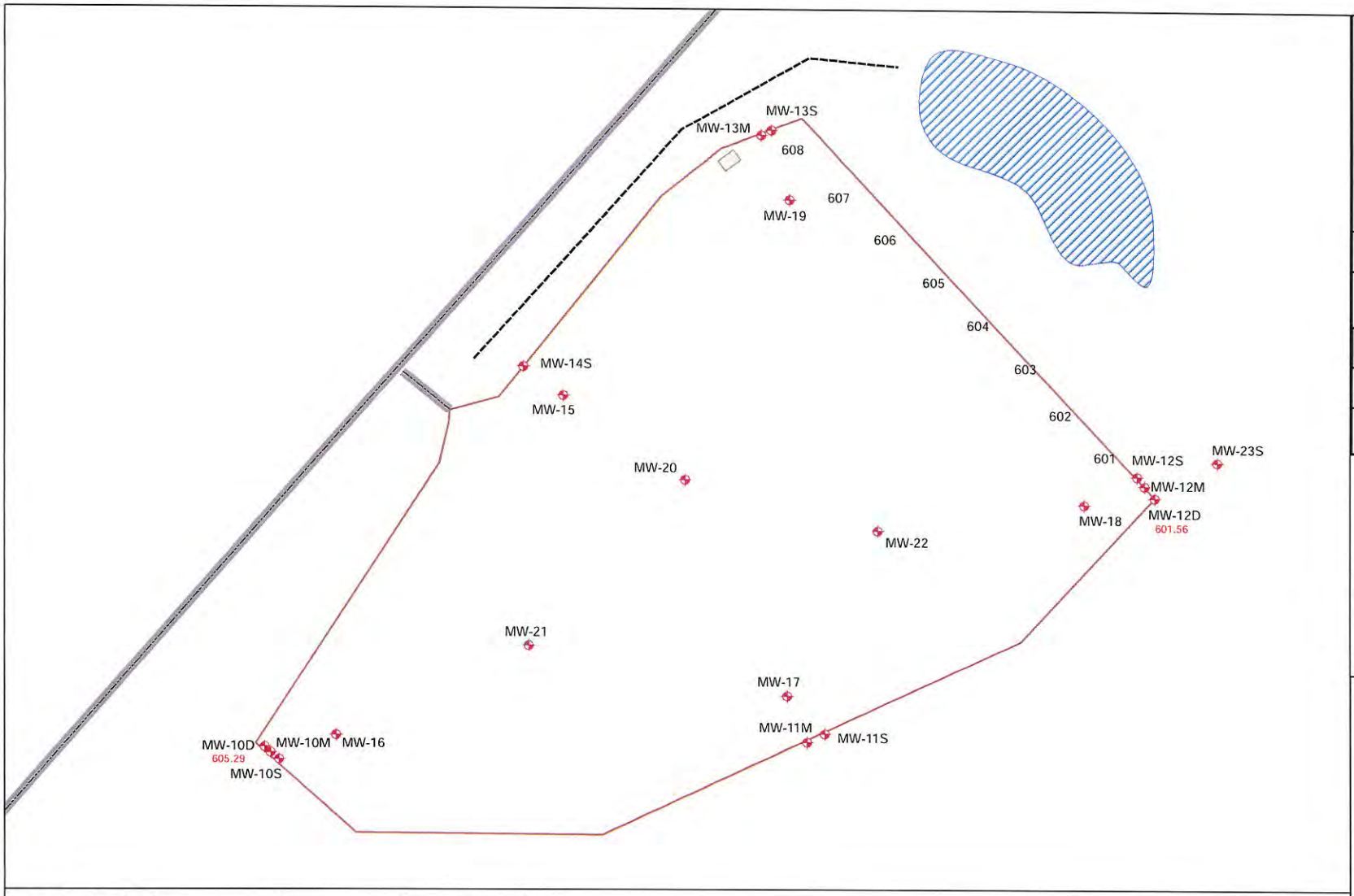
Project Name: Union Road

FIGURE 4-2

Author: RTM	Checked By: ----
Project #: 2011	Created: 10/10/2011
	Revised: 1/20/15
Scale: 1 in:100 ft	File: GWContour_M_2014

Legend

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



Union Road- Deep Groundwater Elevation Contour Map for 9/25/14

Unicorn Management Consultants, LLC

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: 1/20/15
Scale: 1 in:100 ft	File: GWContour_D_2014

Legend

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

5. SITE INSPECTION AND MAINTENANCE

UMC performed an annual site inspection on April 16, 2014. 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 Erie County Sewer Authority, no action is needed.

A woodchuck eradication program was implemented during 2009 and continued in 2014. During 2009, woodchuck burrows were noted at several locations on the cap and around the pump control building. The woodchucks were captured and removed. On the morning of April 16, 2014, UMC filled in previously identified woodchuck burrows on the landfill cap. During the 2014 site inspection, some additional woodchuck burrows were noted along the north eastern side of the landfill. Additionally some animal burrows were observed on the slope between the landfill and the wetlands. On August 13, 2014 UMC filled in the remaining woodchuck burrows.

As requested by the NYSDEC, grass on the landfill area was mowed only once during September 2014.

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. No action is needed.

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 has 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.

On April 15, 2014, UMC refilled three empty gabion baskets conducted located in the wing wall adjacent to the Conrail Culvert which were identified during previous site inspections.

At the time of the inspection on April 16, 2014, the reno mattresses installed along the creek are in good condition with the exception of one area near the confluence of Slate Bottom and Deer

Lik Creeks. The mattress cover in this area was repaired once before in August 2006, and was again being worn away by all terrain vehicle (ATV) traffic. UMC observed a patch of exposed soil beginning to appear where the reno-matress and gabion stone have been worn away. UMC replaced the missing gabion stone and repaired the damaged area of reno-mattress on August 12-13, 2015.

The gabion basket wing-walls are stable. 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: On November 24, 2014, UMC informed NYSDEC by phone of its intent to upgrade the onsite telemetry unit. UMC planned to replace the previous telemetry unit, a Sensaphone 1400, with a Sensaphone CELL682. The new CELL682 unit utilizes a wireless network to connect to the internet and includes several dry and analog inputs which can be monitored and programed via an online interface. Because the telemetry system upgrade does not change how the dewatering system operates, NYSDEC stated that there was no need for a formal approval of the upgrade.

On December 10, 2014, UMC installed the new CELL682 telemetry unit and a high gain antena.

UMC is currently assessing the possibility of interfacing the on-site totalizer to the CELL682 unit. The existing totalizer appears to have output terminals which can be connected to the CELL682 unit. This would allow UMC to remotely monitor the number of gallons discharged into the Buffalo sanitary sewers in real-time. If feasible, UMC will perform this modification during 1Q15.

6. CONCLUSION

The groundwater quality within the exterior wells and the groundwater elevation measurements during the annual 2014 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.

Other than bis(2-ethylhexyl)phthalate, which was detected in MW-11M and MW-12D, no SVOCs were detected in any of the monitoring wells during this annual sampling event. Bis(2-ethylhexyl)phthalate has been detected in monitoring wells 10D, 11M, and 12D at similar concentrations between 2001 and 2006. Additionally no TPH, Arsenic, Lead, or VOCs 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.

Though arsenic has been detected in several wells over the duration of the groundwater monitoring activities, during this sample event, arsenic was not detected in any of the wells.

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 (ON CD)

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 MANM

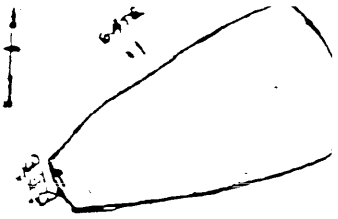
GEOLOGIST. OFFICE JOHN J ZACHER JR

DRILLING EQUIPMENT. METHOD HSA | SIZE TYPE OF BIT 6" HSA | SAMPLING METHOD SPLIT 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: GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE (FT. ABOVE M.S.L.)

REMARKS: Hole to 21', Samples to 20'



DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC
				SAMPLING STARTS AT 4' B.G.			
5	4 4 6	21"	6 6 8 10	BRICK TO TANISH GREY CLAY W LITTLE ANGULAR ROCKS TO 1/2"	STIFF, DAMP		
	6 8 4	21"	6 45 20 8	0-3" BRICK TO TAN-GREY CLAY SOME ROCKS TO 3/4" 3-15" CINDERS W/SOME ROCKS. - DAMP 15-21" BROWN/TAN CLAY SOME SAND, LITTLE SILT TRACE ROCKS	STIFF DAMP SATURATED LITTLE H2O		
10	4 10	24"	8 5 4 10	TAN/LT BROWN CLAY	STIFF, LITTLE H2O		
	10 12	12"	2 3 4 3	TAN/LT BROWN CLAY	MED STIFF SOME H2O		
	12 14	16"	2 3 3 4	TAN/LT BROWN CLAY - TRACE SILTS	MED STIFF SOME H2O		
15	14 16	20"	2 2 3 4	GREY TO LT BROWN CLAY - LITTLE ROUNDED ROCKS	MED STIFF SOME H2O		
	16 18	18"	2 3 4 5	TAN TO LT BROWN CLAY	MED STIFF SOME H2O		
	18 20	20"	2 3 3 3	GREYISH BROWN CLAY TRACE ORGANICS.	MED STIFF SOME H2O		
				END of Boring 21' BGS - ~~20~~ 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

TEST BORING LOG

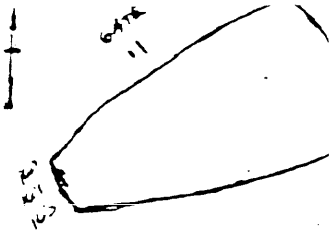
BORING NO. 10-M	
PROJECT NO. NAME Union Road - 2035-200	LOCATION Buffalo NY
DRILLING CONTRACTOR/DRILLER Manm	
GEOLOGIST. OFFICE John J Zacher JR	
DRILLING EQUIPMENT. METHOD HSA	SIZE TYPE OF BIT 6" HSA / SAMPLING METHOD Split Spoon / START. FINISH D: 1/3/97
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. 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:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONSTR.	GRAPHIC LITHOLOGY
				SAMPLING STARTS 4' BG.			
5	4	22"	6	BLK TO TAN/GREY CLAY W/LITTLE ROCKS TO 4"	STIFF, DAMP		
	6		6	0-7" BLACK TO TAN/GREY CLAY SOME ROCKS	STIFF DAMP		
	6		5	7-14" CINDERS	DRY		
	5	22"	8	14-22" BROWN TAN CLAY LITTLE ROCKS	MED STIFF, LITTLE H2O		
	3		12				
	3	24"	7	TAN/LT BROWN CLAY	STIFF, LITTLE H2O		
10	10		8				
	20	15"	13	TAN/LT BROWN CLAY	MED STIFF SOME H2O		
	12		5				
	12	15"	3	TAN/LT BROWN CLAY	MED STIFF SOME H2O		
	14		5				
15	14	20"	3	TAN/LT BROWN CLAY, LITTLE GREY LITTLE ROUND ROCKS	MED STIFF SOME H2O		
	16		4				
	16	19"	3	TAN TO LT BROWN CLAY	MED STIFF SOME H2O		
	18		3				
	15	20"	3	GREYISH BROWN CLAY, SOME ORGANICS	MED STIFF SOME H2O		
	20		4				

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. 10M

PROJECT NO. NAME Woodlawn - 2035-200 | LOCATION BUFFALO NY

DRILLING CONTRACTOR/DRILLER MAHM

GEOLOGIST. OFFICE JOHN J ZACHER JR

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH
HSA	6" HSA	SPLIT SPOON	1/13/97

WELL INSTALLED?	CASING MAT./DIA.	SCREEN:				
YES ☒ NO ☐	STAINLESS STEEL/2"	TYPE SLOT	MAT. STAINLESS	LENGTH 10'	DIA. 2"	SLOT SIZE 0.02

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC
20			1	DARK GREY w/ SOME ORGANICS LITTLE	MED STIFF		
21		21	3		SOME H2O		
22			2				
22			4	GREY & SOME BROWN CLAYS	MED STIFF		
23		21	5		LITTLE H2O		
24			4				
24			2	GREY CLAY	SOFT,		
25		20	3		WET		
26			3				
26			1	TOP 14" GREY CLAY	SOFT WET		
27		21	2				
28			2	BOT 7" GREY/LT BROWN CLAY, SOME ROCK FRAGS, LITTLE SAND	WET, NON COHESIVE		
28			10				
29			12	LT BROWN SILTS W/SOME SAND 0-6"	WET, LOOSE		
30		17"	4	LT BROWN TAN CLAY, SOME ROCKS 6-17" 1/2-1"	SOFT-WET		
30			4				
30			2				

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

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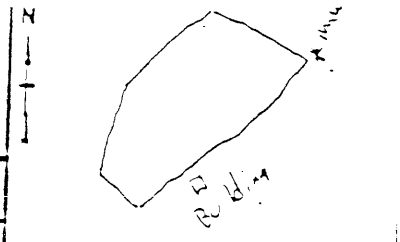
TEST BORING LOG



BORING NO. MW-10D

PROJECT NO.. NAME: Union Road | LOCATION: Buffalo NY

DRILLING CONTRACTOR/ DRILLER: Maxim (Dick Miller, Ron Brown)

GEOLOGIST. OFFICE: James Dann

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH DATE
Air Rotary / HSA	8¼" HSA / 7⅞"	Split Spoon	12/6 - 12/7/96

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

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
				Sampling started @ 4' BG.			
5		21"	5 6 9 10	~~Blk to tan/Grey clay w/ Trace angular~~ Fragmented Rock upto 1" in size	~~Stiff,~~ Damp		
		22"	7 30 18 11	Top 8" Blk, tan/grey Clay w/ Trace angular Fragmented Rock next 6" Blk Cinder like material w/ ~~same~~ w/ angular Fragmented Rock, 1" in size Bottom 6" Brown/Tan Sand/Silty Clay w/ 10%-20% Rx Frag. 2"	Stiff, Damp Dry Not Cohesive, little H_2O		
10		24"	7 8 10 9	Tan to Lt Brown clay, No Rocks	m. stiffness w/ some H_2O		
		16"	2 2 3 3	Tan to lt Brown clay w/o Rocks	m. Stiffness w/ some H_2O		
15		15"	1 3 3 5	tan to lt Brown Clay w/o Rocks Possibly Some Silts	m. stiffness w/ some H_2O		
		20"	2 2 3 4	Grey to lt Brown Mottled clay w/ trace rounded Rocks, ¼ - ⅛" diameter.	m. stiffness w/ Some H_2O		
		18"	1 3 4 6	Tan to lt Brown Clay w/o Rxs	m. stiffness w/ Some H_2O		
		21"	2 2 3 4	Grayish/Brown/Blk clay w/ 10-20% organics	m. stiffness w/ some H_2O		

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

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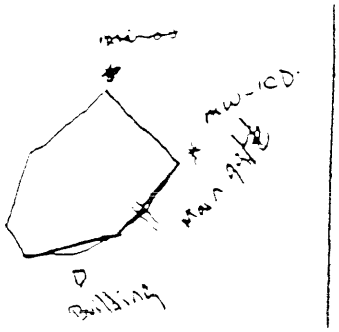
TEST BORING LOG



BORING NO. MW- 10D

PROJECT NO.. NAME: Union Road 2035-200

LOCATION: Buffalo NY

DRILLING CONTRACTOR/ DRILLER: Maxim (Dick Miller, Ron Brown)

GEOLOGIST, OFFICE: James Doan

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH DATE
HSA / Air Rotary	HSA 8 1/4" / 7 7/8"	Split SPOON	

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

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
20-22'		21"	1 3 5 8	Greyish/Blk/Dk Grey Clays w/ Traces organics	m. stiffness w/ Some H_2O		
22-24'		20"	3 5 8 9	Grey + Brown Clays	m. stiffness w/ Trace H_2O		
24-26'		0"	2 2 3 2	The inside of the spoon was v. wet, No Basket.			
26-28'		22"	1 1 3 17	Top 16" Grey clays mid 4" Grey clays, w/ trace organics Bottom 2" Grey/H Brown/ Clays w/ some Frag. Rks, Sands	soft wet soft wet Not cohesive wet		
28-30'		17"	3 3 3 3	lt Brown/Tan clays w/ silts 20% Rock Frags. 1/4" - 2"	Sof wet		
28-30'		18"	6 2 2 2	Top 3" Sands w/ lt Brown/Tan silts + clays Bottom 15" lt Brown / Tan Clays w/ silts, 20% Rock Fragments 1/4" - 2" in size	Not Cohesive wet Soft Wet		
32-34'		4"	2 3"/50	lt Brown/Tan clays w/ silts, 20% Rx's Frags 1/4" - 2" in size	Soft Wet		
				Bed Rock.			
				@ 38' BG Bottom of Protectiv casing	Bottem of The Protective Casing		

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

CS = Continuous Soil Core

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TEST BORING LOG

BORING NO. MW-10D

PROJECT NO.. NAME: 2035-200 Union Road

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.: 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.)

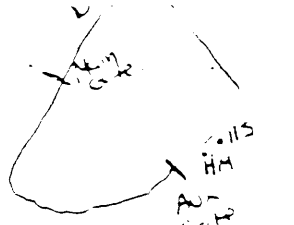
REMARKS:

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

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

Samples: ST = Shelby Tube, CSC = Continuous Soil Core

TEST BORING LOG



BORING NO. MW-115	
PROJECT NO. NAME Niagara 2035-200	LOCATION Buffalo NY
DRILLING CONTRACTOR/DRILLER MAXIM	
GEOLOGIST. OFFICE JOHN J ZAHER JR	
DRILLING EQUIPMENT. METHOD HSA	SIZE TYPE OF BIT 6" HSA / SAMPLING METHOD SPLIT SPOON / START. FINISH DAT 1/2/97
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. STAINLESS STEEL 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:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
				SAMPLING STARTED AT 4' B.G.			
	4'		10	BROWN/DRK BROWN SILTS & CLAYS	STIFF/		
5		15"	9	TRACE RX FRAGMENTS < 1/8"	DRY - LITTLE TO H2O		Conc
	6'		10				
	6'		4	BROWN/DRK BROWN SILTS AND CLAYS	STIFF		
		15"	9	NO RXS	LITTLE TO H2O		
	8'		12	FILL			
	8'		11	BROWN/DRK BROWN CLAYS	STIFF		
		10"	12	TRACE RX FRAGS	LITTLE TO H2O		Bent
	10'		12	FILL			
10	10'		4	TOP 9" DRK BROWN CLAYS W/SOME ORGANICS	STIFF - LITTLE H2O		
		13"	6	BOTTOM 4" - GREY SILTS/CLAYS AND ORGANICS	~~SOFT~~ STIFF - LITTLE H2O MED		
	12'		8				Sand
	12'		8	GREY CLAYS LITTLE ORGANICS	MEDIUM STIFFNESS SOME H2O		
		20"	9				
	14'		10				
	14'		13	TOP 6" - GREY CLAYS, LITTLE ORGANICS	MED STIFFNESS WISOME H2O		Bent
			9				
15		15"	11				
	16'		15	BOTTOM 12" - REDDISH BROWN CLAY NO RXS ORGANICS	STILL - LITTLE TO NO H2O		
	16'		19	REDDISH BROWN CLAYS W/GREY LAYERS	STIFF - LITTLE		
		21"	20	GREY LAYERS MAY BE EVIDENCE OF VARVED CLAYS	TO NO H2O		
	18'		22				
	18'		5	REDDISH BROWN CLAYS W/GREY LAYERS	M. STIFFNESS		
		12"	5	GREY LAYERS MAY BE EVIDENCE OF VARVED CLAYS	DAMP		
	20'		21				
			4				

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-11S

PROJECT NO. NAME: Niagara Road - 2035-200 | LOCATION: BUFFALO NY

DRILLING CONTRACTOR/DRILLER: MARIM

GEOLOGIST. OFFICE: John J Zacher Jr

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH DATE
HSA	6" HSA	SPLIT SPOON	1/2/97

WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
	SS 2"	SLOT	STAINLESS	10'	2"	0.020

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY LOG
20	20	24"	3 5 6	BROWN / DRK BROWN CLAYS, NO ZAS	STIFF LITTLE - NO H_2O		
22	22	---	5 2	BROWN WISOME GREY CLAYS	STIFF TRACE H_2O		
	22	23"	4 5	BoBe 24' Bgl			
	24	-	4				
5							
10							
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

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TEST BORING LOG

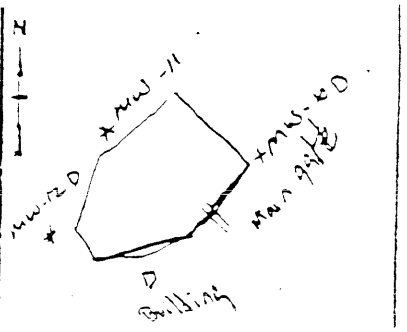
BORING NO. MW-11M

PROJECT NO.. NAME Union Road 2035-200

LOCATION Buffalo NY

DRILLING CONTRACTOR/ DRILLER Maxim

GEOLOGIST, OFFICE James Dean



DRILLING EQUIPMENT. METHOD	SIZE. TYPE OF BIT	SAMPLING METHOD	START. FINISH. DATE
HSA		Split Spoon	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:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
				Sampling started @ 4' BG			
4'			10				
5 6'		14"	8 10 10	Brown/DRK Brown silts + clays w/ Trace amounts of Rx Fragments. less than ½"	Stiff little to No H_2O		
6'			8	Brown/Drk Brown silts + clays, w/o Rxs	Stiff little to No H_2O		
8'		13"	12 12 14	Most likely Fill			
8'				Drk Brown clays w/ Trace amounts of Rx frags.	Stiff little to No H_2O		
		4"		most liky Fill			
10 10'				Top 8" Drk Brown clays w/ some Organics	Stiff little to No H_2O		
10'		10"	3 4 5	Bottom 2" Grey silts + clays w/ some Organics	~~little to No H_2O~~ soft w/ some H_2O		
12'			9	Top 4" discarded looked as if they fell into hole			
12'		18"	5 18		m. Stiffness Some H_2O		
14'			15	Bottom 14" Grey clays w/ Some organics + Trace ashes or soot.			
14'			7		Stiff		
15		19"	11 11	Reddish Brown clays w/ No Rxs or organics	little to No H_2O		
16'			20				
16'			19		Stiff		
		24"	25 18	Reddish Brown clays w/ Grey layers evidence of The grey layers may be varbed clays.	little to No H_2O		
18'			20		m. Stiffness		
18'			6 3	Reddish Brown clays w/ Grey layers			
			4	The Grey layers may be evedence of Varbed clays	Damn		
20			5				

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

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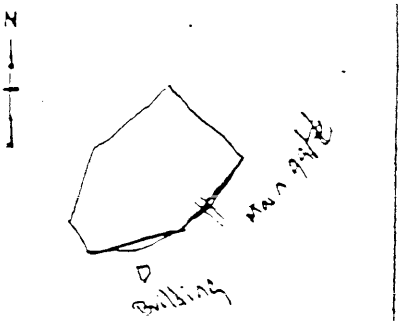
TEST BORING LOG



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: 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 | DATE

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
20'			6	- Reddish brown varbed clays w/ Red, Grey, and dark Brown layers.	Soft Wet		
22'		24"	3 3 3				
22'					Soft		
24'		12"	3 2 4	Reddish/ Brown clays	Wet		
24			1 1 3	Reddish Brown (Fleshy Color) clays ¼" - ½" Rx frags. w/ Rounded edges.	Soft Wet		
26'		18"					
26'			3 4 5	Reddish Brown (Fleshy Color) clays ¼" - 2" Rx frags w/ rounded edges.	Soft Wet		
28'		18					
28'			2 2 2	Reddish Brown (Fleshy Color) clays + 40%-50% Rock fragments w/ some rounded edges	Soft Wet		
30'		13"					
30'			5 6 7	- Mostly Rocks 70% w/ Some Reddish Brown (Fleshy color) clays	Soft Wet		
32'		4"					
32'			3 3 3	- Reddish Brown (Flesh color) clays + silts - Some Sands 20-30% rock mostly smoothed pebbles ¼" - 1"	Soft Wet		
34'		14"					
34'			1 8 15	Reddish Brown/ Grey silts + clays 10% Rocks + Sands	The sample Ranged from Soft → hard Wet		
36'		13"	22		Soft → Hard		
36			24	Reddish Brown/ Grey silts, clays, Sands + Rocks.	Wet		
35		5"	54/2"				
				Bed Rock @ 39' BG			

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

SS = Split Spoon Type, CSC = Continuous Soil Core

TEST BORING LOG

BORING NO. 17-S

PROJECT NO. NAME Woodlawn - 2035-200 | LOCATION BUFFALO NY

DRILLING CONTRACTOR/ DRILLER MANM

GEOLOGIST. OFFICE JOHN J ZACHER JR

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH DA
HSA	6" 8" & HSA	SPLIT SPOON	1-2-97

WELL INSTALLED?	CASING MAT./DIA.	SCREEN:				
YES ☒ NO ☐	STAINLESS STEEL/2"	TYPE SLOT	MAT. STAINLESS	LENGTH 10'	DIA. 2"	SLOT SIZE 0.020

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
				SAMPLING START AT 15' BG			
15	15'	24"	6 9 9 7 6 5 5	BROWN CLAYS - FILL	STIFF - LITTLE TO SOME H2O		
	17						
	17	24"		BROWN CLAYS FILL	STIFF - TRACE H2O		
	19		5 6 6 7 8 9				
20	21	23		BROWN TO DARK BROWN CLAYS	STIFF LITTLE H2O		
	21						
	23	24"	4 5 5 5 5 5	BROWN TO TAN CLAY W/ LITTLE GREY	STIFF SOME TO LITTLE H2O		
	23						
	25	24"	5 5 6 6	BROWN - GREY CLAY 0-12 12-24	SOFT / MOIST		
25				BB 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

TEST BORING LOG

BORING NO. 12-M

PROJECT NO. NAME (Woodlawn - 2035-200) | LOCATION BUFFALO NY

DRILLING CONTRACTOR/ DRILLER MANM

GEOLOGIST. OFFICE JOHN J ZACHER JR

DRILLING EQUIPMENT. METHOD	SIZE TYPE OF BIT	SAMPLING METHOD	START. FINISH DA
HSA	6" ~~4"~~ 6" HSA	SPLIT SPOON	12/31/96

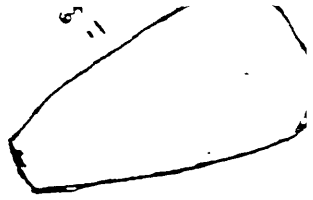
WELL INSTALLED?	CASING MAT./DIA.	SCREEN:				
YES ☒ NO ☐	STAINLESS STEEL / 2"	TYPE SLOT	MAT. STAINLESS	LENGTH 10'	DIA. 2"	SLOT SIZE 0.020

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

REMARKS: NO SAMPLES 0-20' FILL MATERIAL, CUTTINGS BROWN DRY SAMPLE 40-42 - NO RECOVERY REFUSAL 42.5'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
20			9	BROWN/DARK BROWN CLAYS	STIFF - LITTLE TO NO H_2O
22		22"	5 6 8		
22			4	BROWN TO TAN CLAY SOME GREY	STIFF SOME TO TRACE H_2O
24		24"	4 4 4		
24			2	GREY TO RED BROWN CLAY, TRACE ROCKS	SOFT, MOIST
26		24"	1 1 1		
26			4	RED BROWN CLAY	STIFF, LITTLE H_2O
28		19"	7 7 8		
28			2	LT BROWN/TAN CLAY, TRACE SILTS, LITTLE ROCKS (1/8")	SOFT, DAMP
30		18	4 2 4		
30			2	LT BROWN/TAN CLAY - LITTLE GREY, LITTLE ROCKS (1/8 - 1/4)	SOFT DAMP
32		16	2 3 4		
32			3	TOP 12" - LT BROWN/TAN CLAY - SOME GREYS, LITTLE ROCKS	SOFT DAMP, SOME H_2O
34		18	8 12 10	BC - 6" - GREY CLAY AND SAND, NO COHESIVE STRENGTH	WET
34			1	GREY CLAY AND SAND	NO STRENGTH, WET
36		24"	2 2 1		
36			1	GREY CLAY AND SAND 0-15'	NO STRENGTH
38		20"	1 1 1	15-20' - GREY CLAY ~~AND~~ AND ROCKS 1/4 - 1/2"	WET
38			7	MOSTLY ROCK - W/SOME GREY/TAN CLAY	WET, STIFF
HC		6"	50/3"		

WELL CONSTR. GRAPHIC LOG



Bent 24'

31.5'

41.5'

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 Bad Rain

BOB - 42.5

44 SHELTER ROCK ROAD
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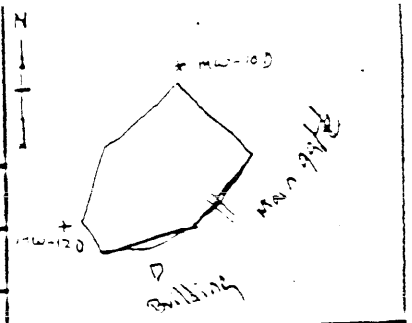
TEST BORING LOG



BORING NO. MW-120

LOCATION Buffalo NY

PROJECT NO.. NAME Union Road 2035-200

DRILLING CONTRACTOR/ DRILLER Maxim (Ron Brown, Dick Miller)

GEOLOGIST, OFFICE James Dean

START, FINISH DATE 12/12-12/16/96

DRILLING EQUIPMENT, METHOD HSA / Air Rotary

SIZE, TYPE OF BIT 8¼" HSA / 7⅞" Air / 5⅞" SAMPLING METHOD Split Spoon

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:

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

...-10%, Little = 10-20%, Some = 20-35%, And = 35-50%
...SC = Continuous Soil Core

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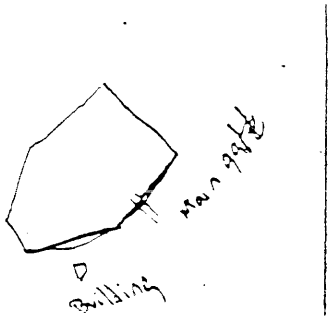
TEST BORING LOG



BORING NO. MW-125

PROJECT NO.. NAME Union Road 2035-200

LOCATION Buffalo NY

DRILLING CONTRACTOR/ DRILLER Maxim

GEOLOGIST. OFFICE James Doar

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:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
20'			3	Brown to Drk Brown Clays, No Rxs	Stiff little to No H_2O		
		24"	5				
22'			6				
			8				
22'			3	Brown/Tan/w/ some Greys	Stiff w/ trace H_2O		
		24"	5				
			4				
24'			4		Soft Damp		
5			1	Greyish/ Red Brown Clays, Trace Rx Fragments Y8" - Y4"			
24'		24"	1				
26'			1				
26'			4	Top 6" Red Brown Clay, No Rxs	Stiff		
		17"	6		Soft w/		
			14	Bottom 11" lt Brown/Tan (Fleshy color) Clays, Trace silts & some Rx Fragments	Some H_2O		
28'			20		Soft		
28'			1	lt Brown/Tan (Fleshy color) clays, Trace silts &	Some H_2O		
		15"	4	Some rock fragments. Y8" - Y4"			
			2		Soft		
30'			3	lt Brown/Tan (Flesh Color) clays, Trace silts &	Some H_2O		
10 D'			1	some Rock fragments			
		14"	3		Soft, Damp		
32'			4	Top 12" lt Brown/Tan, w/ some Grey clays some Rx fragments.			
32'			1		No Cohesive Strength Wet to Damp		
		24"	8	lst 16 Brown/Tan (Flesh Color) clays & silts			
34'			16	Bottom 8" Grey 50% Sands No Rxs			
			50				
				Sample skipped the augers into hard unconsolidated Rocks.			
15							
					Soft		
				lt Brown/Tan/Grey Clays w/ silts & Angular Rock Fragments 40-50% Y8" - 1"			
37'		5/6"	5"		Wet		
39'							

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

CSC = Continuous Soil Core

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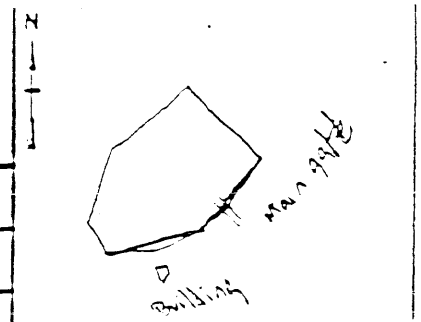
SOT 5

TEST BORING LOG



BORING NO. MW-12D

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. 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:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOG
40-42'	2'	50/2"		Mostly Rx ¼"-2" in size w/ a matrix of lt Brown/Tan/Grey Clays + silts -Bed Rock @ -41' BG	Wet Stiff		
					Cement Seal		
5				Bottom of Protective casing @ 46' BG	Bentonite seal		
				Stainless Steal Riser			
10				Stainless steal Screen			
15				Sand			
				Bottom of hole 61.5' BG			

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

61.5'

TEST BORING LOG

BORING NO. MW-135	
PROJECT NO. NAME UNION ROAD 2035-200	LOCATION BUFFALO NY
DRILLING CONTRACTOR/DRILLER MAKIM	
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 / 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: BORING TO 21', LAST 1' NOT SPLIT SPOONED WELL ~~RISER~~ RISER AT 20.5' B.G.	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY LOG
				SAMPLING STARTED AT 4' B.G.			
4			15	DARK BROWN CLAYS	STIFF		
			10	NO ROCKS	LITTLE NO H2O		
5		14"	15	SOME CINDERS			
6'			12				
6			12	DARK BROWN CLAYS	STIFF		
		12	10	SOME CINDERS	TRACE H2O		
8'			10				
8'			12	5' → DARK BROWN CLAYS, LITTLE CINDERS	STIFF, LITTLE H2O		
		10"	11				
10'			13	BOTS" - BLACK SANDS/CINDERS NOT NATIVE	DRY		
10			8	TOP 3" - BLACK SAND CINDERS	DRY		
		11'	5				
			10	BOTTOM 3" - WOOD SOME CREOSOTE ODOR			
12			7				
12			8	BLACK SAND / CINDERS	WET		
		10"	3				
14			6				
14			7	BLACK SAND / CINDERS	WET		
15		12"	7	SOME BRICK AND WOOD			
16			6				
16			5	BLACK SAND CINDERS W/SOME RED CLAY	DAMP		
		7"	4				
18			4		WET		
18			3	TOP 6" BLACK CINDERS	MED STIFF		
		21"	5	6"-15" RED CLAY, NO ROCKS	SOME H2O		
20			9				

BOB 21'

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

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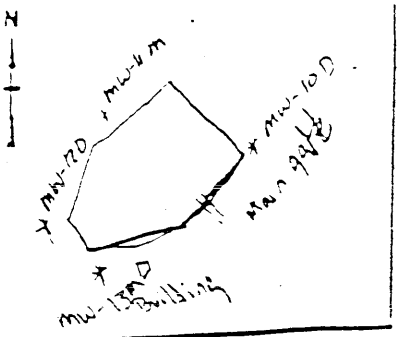
TEST BORING LOG



BORING NO. MW- 13 M

PROJECT NO.. NAME Union Road 2025-200

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 12/9/96

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:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESIST-ANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
5	5'	12"	18 12 8 17	-Drk Brown clays w/o RKS	Stiff little to No H2O		
	7'						
10	10'	8"	15 14 11 5	Blk sands + cashes or cinders - Not a native material	No Cohesive strength DRY		
	12'						
	12'	11"	7 9 4 5	Top 9" Blk sand + ashes or cinder some organics Bottom 2" Wood, Hobby from a RR tie-	No Cohesive strength DRY		
	14'				Damp		
15	14'	5"	50/5"	Top 2" Blk ash w/ some ~~as~~ organics Next 1" Brick (Red Bottom 2" Wood			
	16'						
	16'	3"	50/3"	Wood Next Sample will be 19'-21'			
	18'						
	19'	3"	50/3"	Wood			

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

44 SHELTER ROCK ROAD
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2 of 2

TEST BORING LOG

BORING NO. MW-13M

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

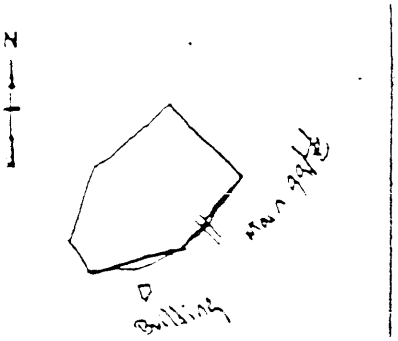
WELL INSTALLED? YES ☑ NO ☐

CASING MAT./ DIA. 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:



DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
	24'		7	Top 5" Wood	stiff → soft
5		24"	5	Bottom 19" Greyish red clays, No Rocks	little to No H_2O
	26'		5	~~Reddish Grey clays w/ some rocks~~	
10	30'		1	Top 2" Wood – Maybe from a plug in Bottom of auger	Soft Wet.
		12"	1	Bottom 10" Reddish / Grey Clays w/ some Rx Frag Pebbles	
	32'		1		
	32	0"	2	There wasn't a basket in the spoon.	
			5		
	34'		8		
			6		
15	34'	0"	50/0"	Bed Rock	Bottom of Borring
	36'				

WELL CONST. | GRAPHIC LITHOLOGY LOG

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

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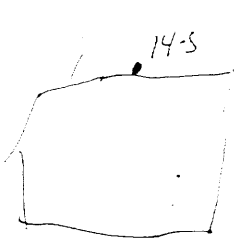
TEST BORING LOG



BORING NO. 14-S

PROJECT NO.. NAME UNION ROAD | LOCATION Buffalo NY

DRILLING CONTRACTOR/ DRILLER Maxim Technologies

GEOLOGIST, OFFICE Mark Cambra NES Danbury, CT

DRILLING EQUIPMENT, METHOD	SIZE, TYPE OF BIT	SAMPLING METHOD	START, FINISH DATE
HSA	6" HSA	AF	8/19/97

WELL INSTALLED? YES ☑ NO ☐	CASING MAT./DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
	Steel 4"	Slotted	Stainless Steel	10	2"	020

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE | TOP OF WELL CASING | TOP & BOTTOM SCREEN | GW SURFACE DATE 8/19/97

REMARKS: Replaced Previous 14-S well.

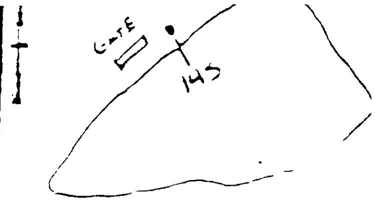
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOG
				Topsoil			
				Fill - Reddish brown Sandy Clay		grout	
						3.8 Bentonite	
5						5.3	
						6.8	
				Reddish Brown Clay	SAND		
10							
15						16.8	
				End of Boring		17.3	

See 14-S Previous

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.	14-S
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" HSA
SAMPLING METHOD	SPLIT SPOON
START, FINISH DATE	12-30-96
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	STAINLESS STEEL/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

SAMPLING STARTS AT 4' B.G.

A Bando 8/19/97

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
4'–6'		20"	7, 14, 17, 12	TOP 1" - WOOD 1-11" - BROWN CLAY W/LITTLE GRAVEL 11-17" CINDERS 17-20" BROWN CLAY W/ SOME ORGANIC	STIFF, DRY DRY STIFF, DRY
6'–8'		19"	19, 19, 17, 23	0-7" - FILL - CINDERS, STONES, BRICK. 7-19" - BROWN CLAY W/ ~~SOME~~ GREY VARBING	STIFF, TRACE H_2O
8'–10'		22"	5, 7, 9, 10	0-7" BROWN CLAY W/ LITTLE ROCKS (1/4") 7-22" RED/BROWN CLAY	STIFF, LITTLE/NO H_2O STIFF, LITTLE/NO H_2O
10'–12'		22"	16, 12, 13, 14	RED/BROWN CLAY, TRACE ORGANICS (ROOTS)	STIFF - LITTLE/NO H_2O
12'–14'		24"	5, 7, 10, 10	RED/BROWN CLAY - SOME GREY VARBING	STIFF LITTLE/NO H_2O LAST 4" SOME H_2O
14'–16'		24"	3, 5, 8, 7	RED/BROWN CLAY SOME GREY VARBING	STIFF/LITTLE H_2O
16'–18'		24"	12, 13, 15, 13	RED/BROWN CLAY W/SOME GREY	STIFF - LITTLE H_2O
18'–20'		24"	0, 3, 5, 7	0-4" MIX BROWN/GREY CLAY 4-24" GREY SANDY CLAY (40-50%)	REDS STIFF SOME ~~AND~~ H_2O SOFT, WET

WELL CONST. / GRAPHIC LOG: 17 - Bent 17 4

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. 145

PROJECT NO., NAME | LOCATION

DRILLING CONTRACTOR/DRILLER

GEOLOGIST, OFFICE

DRILLING EQUIPMENT, METHOD | SIZE, TYPE OF BIT | SAMPLING METHOD | START, FINISH DA

WELL INSTALLED? YES ☐ NO ☐ | CASING MAT./DIA. | SCREEN: TYPE MAT. LENGTH DIA. SLOT SIZE

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

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LOG
20			6 9	GREY CLAY	SOFT, WET		
22		18"	3 7				
22			weight of	GREY CLAY	VERY SOFT, WET		
24		15"	ROD				
24			0	GREY CLAY	SOFT, WET		
25		18"	0 3				
26			2				
26			2	GREY CLAY	SOFT		
28		24"	3 3		SATURATED)		
28			3	G-S GREY CLAY	SATURATED, SOFT		
29			0				
30		24"	0 1 4	5-20' GREY CLAY, SOME ROCKS BOB	VERY WET SOFT		

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

DANBURY, CT 06810
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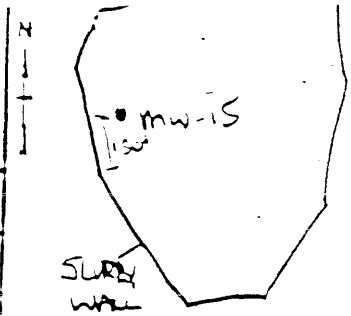
TEST BORING LOG



BORING NO. MW-15	
PROJECT NO.. NAME: UNION ROAD	LOCATION: ON LANDFILL CAP
DRILLING CONTRACTOR/ DRILLER: MAXIM - ENGINE · P. JENCE	
GEOLOGIST. OFFICE: HANSON / SZWAJA DANBURY	
DRILLING EQUIPMENT. METHOD: 6 3/4 HSA HSA	SIZE. TYPE OF BIT: 6.25" H.S.A	SAMPLING METHOD: SS	START. FINISH DATE: 2/20/96
WELL INSTALLED? YES ☒ NO ☐	CASING MAT.. DIA.: SS 2"	SCREEN: TYPE	MAT. SS	LENGTH 10' DIA. 2"	SLOT SIZE 0.D
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE: 618.8	TOP OF WELL CASING: 620.01'	TOP & BOTTOM SCREEN: 610'-600'	GW SURFACE: NA	DATE: 2/20/96

REMARKS: ELEVATION AND DEPTHS RELATIVE TO PAVED SURFACE

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS
0		2'	22/8	Poorly graded CLAY/SILT & GRAVEL. MOIST. ORANGE. TAN/BROWN FINE/MEDIUM. MOIST (FROZEN) · LITTLE ¼" GRAVEL.	
2		1'	13/11	TAN/BROWN CLAY, FIRM. NO COARSE MATERIALS ENCOUNTERED.	
4		1.5'	27/8	CLAYEY FILL MATL. COARSE. DOUBLE SAND & GRAVEL W/ TRACE FINES. TAN. 1" SUBANGULAR ROCK FRAG. TAN FINE SILTY CLAY. NO COARSE MATL.	GRAVEL
6		1.5'	11/14	GREY/GREEN CLAY. NO COARSE MATERIAL. SOFT. TRACE SILT	FINE SAND
8		1.5'	9/4	SAME BUT SILTY. SILTY CLAY. TRACE ORANGE SAND. SOFT GREY/GREEN. SILTY CLAY.	COARSE SAND
10		2'	5/16	GREY/GREEN SILT. SOME CLAY. SOFT.	
12		1.5'	6/16	SAME	
14		1.5'	4/16	SAME	
16		2'	4	SAME	
18				EOB 19.0'	

WELL CONST. | GRAPHIC LITHOLOGY LOG

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

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TEST BORING LOG

BORING NO. MW-16

PROJECT NO., NAME: UNION ROAD | LOCATION: CAN INTERIOR

DRILLING CONTRACTOR/DRILLER: MAXIM/COMPIRE BENCE

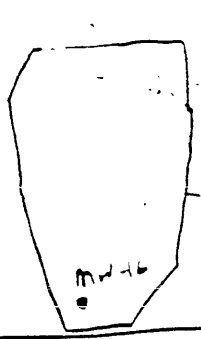
GEOLOGIST/OFFICE: MANSON/SZUNYOG Danbury

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.: 2" SS | SCREEN: TYPE 0.20 MAT. SS LENGTH 10 DIA. 2" SLOT SIZE 0.20

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE ~~618~~ 617.9 | TOP OF WELL CASING 620.10 | TOP & BOTTOM SCREEN ~~618~~ 610.0 - 600.0 | GW SURFACE NA | DATE 2/2/96

REMARKS: ALL ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP GRADE



DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
0		2.0'	35	Hard Brown Clay, 10% Gravel	FROST
2'		1.5'	20	Upper 12" same Bottom 6" CINDERS	DRY
4'					FROST →
5		1.0	9/ft	same	DRY
6'		9"	12/ft	TAN SAND & SILT, SOME ANGULAR ROCK FRAGS (WELL GRADED)	FINE SAND →
8'				1" of BLACK CINDERS (?) TAN CLAY, NO COHESIVE MATERIAL	
10'		2'	5/ft	SOFT TAN/BROWN CLAY, NO COHESIVE MATERIAL, SLIGHT Fe STAINING	
		1.5'	5/ft	same but angular	
12'				same & TRACE GRAVEL.	
		1.5'	5/ft	same	
14'		1.5'	4/ft	same & ~~SAND~~ (20%) ROCK FRAGS TO 1/4", ANGULAR, IN BOTTOM 6"	
15					
16'		1.5'	12/ft	same.	MOIST
18'				EOB 19.0'	COARSE SAND →

LOG OF TEST BORING

WELL CONST.

GRAPHIC LITHOLOG

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

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TEST BORING LOG

BORING NO. MW-17	
PROJECT NO., NAME: Uniroyal	LOCATION: LANDFILL CAP
DRILLING CONTRACTOR/DRILLER: Marine-Environ / P. Bence	
GEOLOGIST, OFFICE: M. Sbrana / Danbury	
DRILLING EQUIPMENT, METHOD	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. SS LENGTH 10' DIA. 2 SLOT SIZE 20
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE; TOP OF WELL CASING; TOP & BOTTOM SCREEN; GW SURFACE; DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
0		0.25'	20/ft	TAN/BROWN CLAY. FROZEN. NO COARSE MATERIAL	FROZEN		
2'		.25'	42/6"	2' BLACK/DARK BRN SILTY SAND. GRAVEL PRESENT. FE STAINING.	WET		
4'		1.0'	11/ft	4' TAN/BROWN CLAY SOFT. NO COARSE MATERIAL. FE STAINING	DRY		
5				5' BROWN/DARK BRN CLAY. TRACE ORGANICS. FE STAINING. ROOT FRAGS.			
6'		1.25'	24/ft	6.5' BLACK CLAY. 30% ORGANICS (WOOD), TRACE COARSE MATERIAL (GRAVEL, GRAVEL). ODOR			
8'		1.5'	11/6"	8' SOFT BROWN CLAY. FE STAINING. NO COARSE MAT'L. TRACE BLACK CINDER FILL MAT'L.			
10		0.5'	11/ft	SAME			
12'		0	7/ft	NO RECOVERY	WET		
14'		0	8/ft	NO RECOVERY			
15							
16		0.8'	11/ft	SAME. NO FILL MAT'L. TRACE ORGANICS (WOOD) GRAVEL.			
18		1.5	14/ft	18.5' GRAY/BROWN CLAY W/ BLACK STAINING. 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

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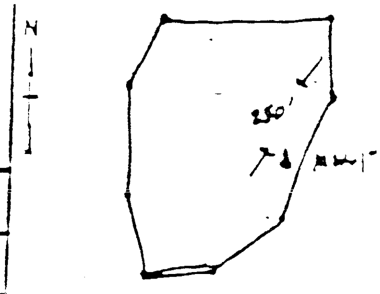
TEST BORING LOG



BORING NO.	MW-17
PROJECT NO., NAME	[illegible] Road
LOCATION	Landfill cap
DRILLING CONTRACTOR/DRILLER	[illegible]-Empire / D. [illegible]
GEOLOGIST, OFFICE	M. [illegible] / Danbury
DRILLING EQUIPMENT, METHOD	B53 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.	SS
LENGTH	10'
DIA.	2"
SLOT SIZE	20

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	619.1	620'	605'-595'	~608'	2/22

REMARKS: Elevations & depths relative to pre-cap tops.

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
20–22'		2'	14/ft.	(SAME) Grey/black [illegible] w/ [illegible] staining. Trace organics [illegible] mat'l. Sulfide staining	WRT ↓		
22'–24'		1.5'	15/ft	23.0' Black silt & sand. Trace organic mat'l.			
24'				E.O.B. 24.0'			

Depth scale: 20, 22', 24', 25, 10, 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

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44 SHELTER ROCK ROAD
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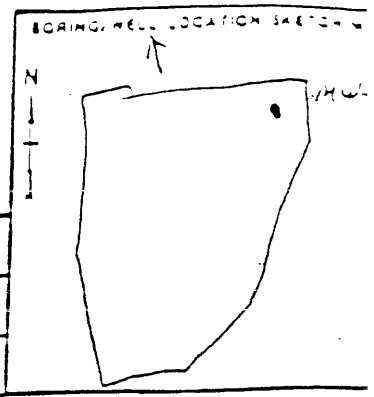

TEST BORING LOG

BORING NO. MW-3	
PROJECT NO.. NAME UNION ROAD	LOCATION CAP INTERIOR
DRILLING CONTRACTOR/ DRILLER MAINE EMPIRE PHIL BENGE	
GEOLOGIST/ OFFICE Hanlon/Schmidt, DANBURY	
DRILLING EQUIPMENT. METHOD CME 750	SIZE TYPE OF BIT 6¼" HSA / SAMPLING METHOD SS / START. FINISH DAT 2/19/96
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. SS 2" / SCREEN: TYPE MAT. SS LENGTH 10' DIA. 2" SLOT SIZE 0.20
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 2/19/96
REMARKS: ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP SURFACE	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
		2'	32/FT	Tan clay, Hard, No coarse, Dry	(Topsoil)		
		1'	10/FT	Tan clay, Firm ~~SFT~~, No coarse, Dry			
5		1'	12/FT	Tan/brown Clay, Firm, No Coarse, Dry	grout		
		2'	15/FT	Brown clay, ~~SFT~~ Firm, No Coarse, Dry Festering			
		1'	12/FT	Same			
10		1.5'	24/FT	Same w/ trace organics + SH bottom 6"			
		1.5'	27/FT	Same w/ trace rock frags (angular, fine)	Fine Sand		
15		1.5'	20/FT	Same (5% clast to 10%)			
		2'	34/FT	Same	Coarse Sand		
		1.5	4/FT	Same but SAT + 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

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TEST BORING LOG

BORING NO. MW-13

PROJECT NO.. NAME UNION PACIFIC | LOCATION INSIDE CAP AREA

DRILLING CONTRACTOR/ DRILLER MAXTON/CONDRE P. BURKE

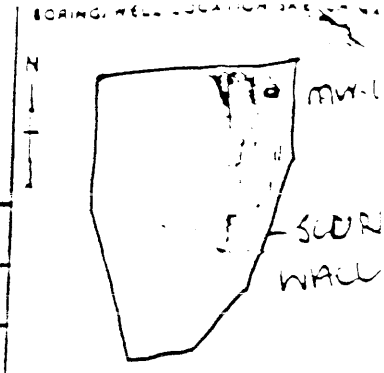
GEOLOGIST. OFFICE HALEY/SEWARD DANBURY

DRILLING EQUIPMENT. METHOD	SIZE. TYPE OF BIT	SAMPLING METHOD	START. FINISH DATE
CME 850 HSA	6 1/4 HSA	SS	2/14/96

WELL INSTALLED?	CASING MAT.. DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
YES X NO	SS 2"		SS	10'	2"	0.02

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	619.1	620.0	605.0 - 595.0	NA	2/19/96

REMARKS: ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP SURFACE



DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOG
0	1'	9/12		Sand, Trace Black Shale Chips	Coarse Sand →		
2	2'	3/12		Brown Sand, Clay, 20% Organic Very Soft Trace Rock Frags Bottom 6" Very Soft Wet Brown Clay trace Rock Fragments - Largest ~ 1"			
25				EOB 24.5'			
10							
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

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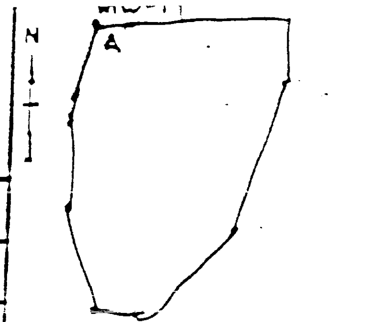
TEST BORING LOG



BORING NO.	MW-19
PROJECT NO., NAME	Union Road
LOCATION	Landfill Cap
DRILLING CONTRACTOR/DRILLER	Mann-Lamar, P. Bence
GEOLOGIST, OFFICE	Szwarka Danbury
DRILLING EQUIPMENT, METHOD	B55 HSA
SIZE, TYPE OF BIT	6.25" HSA
SAMPLING METHOD	2" S.S
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: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	618.5'	617.5'	605' - 595'	unk.	2/22/96

REMARKS: Elevation & depth relative to pre-cap surface

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
0–2'		1.25	15/ft	Well-graded sand, silt & gravel. Tan/brown, frozen/hard	Frozen		
2'		1.0'	12/ft	2' Firm brown/tan clay, Fe+ & black staining, no coarse mat'l.	0.0		
4'		1.5	15/ft	Same		Grout	
6'		1.5'	26/ft	7.0' Same with trace 1/4" gravel (rounded), v. hard	0.0		
8'		0.5'	62/ft	8.0 Tan, dry, hard, clay & silt. Fe+ staining. Trace gravel & clay. Single black organic mat'l & staining		Fine Sand	
10		1.75'	24/ft	11 Brown, firm, dry clay. Trace organics. Angular silt/gravel; 12' black organic mat'l. Gravel & rock frags.			
12'		1.0'	14/ft	Black, wet, silty sand. Some gravel. Ansiont. Petrol. odor. Trace organics	WET	Coarse Sand	
14		1.0'	10/ft	Same. Slight sheen present. Brick, brick frags. Present.			
16		1.0'	6/ft	16' Soft, wet, grey/gray clay, black mottling from organics. Trace organic mat'l. Fe staining. No coarse mat'l.			
18'		1.25'	11/ft	18.5 Same but tan/brown clay, gray streaks, no coarse mat'l. Fe+ staining. Firm.	E.O.B @ 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

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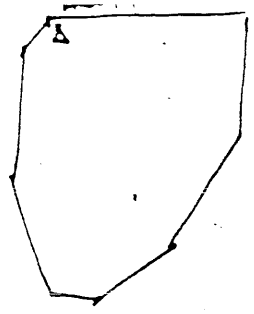
TEST BORING LOG



BORING NO. MW-19	
PROJECT NO.. NAME: Union Road	LOCATION: Landfill Cap
DRILLING CONTRACTOR/ DRILLER: Maxim - Lindsay, P. Benge	
GEOLOGIST. OFFICE: Sawaya, Danbury	

DRILLING EQUIPMENT. METHOD	SIZE. TYPE OF BIT	SAMPLING METHOD	START. FINISH DATE
3SB HSA	6.25" HSA	2" SS.	2/23/96

WELL INSTALLED?	CASING MAT./ DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
YES ☒ NO ☐	2" SS		SS	10'	2"	20

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	618.5'	617.5	605' - 595'	n/a	2/23/96

REMARKS: Elevations in Relation to 726-Cap Elev.

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
				← 20' E.O.B →			
5							
10							
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

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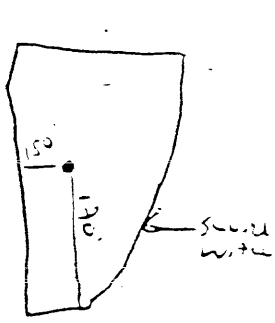
TEST BORING LOG



BORING NO. MW-20			
PROJECT NO., NAME UNION RD	LOCATION INTERIM CAP		
DRILLING CONTRACTOR/DRILLER MAXIM/EMPIRE BENCE/BOITNOTT			
GEOLOGIST, OFFICE HANSON/SUWATA DANBURY			
DRILLING EQUIPMENT, METHOD CME 850 HSA	SIZE, TYPE OF BIT 6¼"	SAMPLING METHOD SS	START, FINISH DATE 2/2/96
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA. SS 7"	SCREEN: TYPE MAT. SS LENGTH 10' DIA. 7"	SLOT SIZE 0.20
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE 614.6	TOP OF WELL CASING 617.0	TOP & BOTTOM SCREEN 607.0 – 597.0
GW SURFACE NA	DATE 2/11/96		

REMARKS: ELEVATION AND DEPTHS RELATIVE TO PRE-CAP SURFACE

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
		1.5	8	Brown Clay; NO coarse, frozen, BOTTOM 4" Black w/15% organics	FROZEN		
		1.0	26	FIRM Brown Clay trace organics and silt	moist		
5		1.5	19	Same BOTTOM 12" Black fine granular material w/charcoal odor, 10% organics 10% "FOAM BOARD"	moist		
		2'	14	Black Firm Clay 10% organics TRACE 1/2" Rock Frags	moist		
10		1.5	24	BOTTOM 4" Firm tan Clay, NO coarse			
		5"	16	First 6" Same w/organics 1st Gray Sandy Clay Next 6" Red Sand w/Black Cinders Some Clay Next 6" WHITE Cindery ash w/30% wood	moist		
		0.5'	6	Soft tan Clay, NO coarse	wet		
				Fine sand/silt red w/Black Stringy 10% organics			
15		2	8	Fine Black Fine Sand Trace red fine sand	~~DRY~~ moist		
		1.5	3	Same Trace organics	WET		
		1.0	3	Brown Clay + SAND w/Black Stringy, Strong Petroleum ODOR, Sheening, 20% rock frags 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

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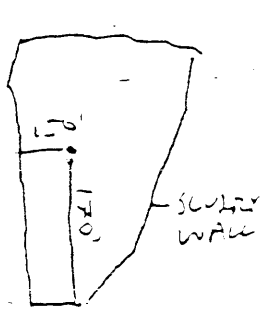
TEST BORING LOG



BORING NO. MW-20

PROJECT NO.. NAME UNION ROAD | LOCATION INTERIOR OF CAP

DRILLING CONTRACTOR/ DRILLER MAYNARD / CHARLIE BEMIS

GEOLOGIST. OFFICE HANSON/SWARTH DANBURY

DRILLING EQUIPMENT. METHOD	SIZE. TYPE OF BIT	SAMPLING METHOD	START. FINISH. DAT
CME 850 HSA	6 1/4"	SS	2/21/96

WELL INSTALLED?	CASING MAT.. DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
YES ☒ NO ☐	SS 2"		SS	10'	2"	0.20

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	624.6	624.6	627.0	607.0 - 597.0	NA 2/21/96

REMARKS: ELEVATIONS AND DEPTHS RELATIVE TO PRE-CAP GRADE

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
0		0	3	~~Silt~~ ? NO RECOVERY	
		2.0'	8	Silt & W/ROCKS up to 1.5" grades into fine material w/ 30% organics	
				Bottom 3" Black Clay, NO coarse, trace organics	
5			7	Grey Clay, trace 1/8" rock frags. No odor, NO petroleum	
			6	Same no rock Frags	
				EOB 29.0'	
30					
15					

LOG OF TEST BORING

WELL CONST. | GRAPHIC LITHOLOGY LOG

coarse 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

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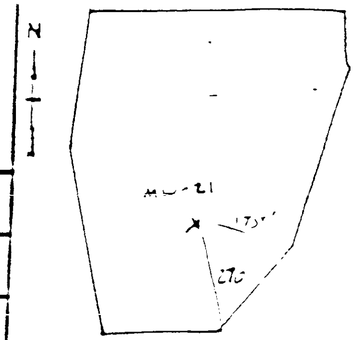
TEST BORING LOG



BORING NO.	PROJECT NO., NAME	LOCATION
MW-21	Union Road	Landfill cap

DRILLING CONTRACTOR/DRILLER: Maxim-Empire

GEOLOGIST, OFFICE: Szwaka / Hanley Danbury

DRILLING EQUIPMENT, METHOD	SIZE, TYPE OF BIT	SAMPLING METHOD	START, FINISH DATE
B53 HSA	6.25" HSA	2" SS	2/22/96

WELL INSTALLED?	CASING MAT./DIA.	SCREEN: TYPE	MAT.	LENGTH	DIA.	SLOT SIZE
YES ☒ NO ☐	2" SS		S.S.	10'	2"	20

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE
	623.9	625'	595'-605'	unk	2/22/96

REMARKS: All elevations & depths relative to pre-cap grade

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/6"	DESCRIPTION	REMARKS
		2'	41/6"	Brown frozen clay.	Frozen
2'				Black coal and cinder cinder fill material trace of organics. Frozen/very hard.	Air hammer on SS broken. Use manual 140# hammer.
		1.25'	unk	Same	
4'					
5		1.25'	9/6"	Same w/ grey/black clay. Fe+ staining. 10-15% organics. Black coal cinders present.	024
6		1'	50/6"	→ Light tan, dry, sand & gravel. No fines. Angular [illegible] → Black & dark red cinder fill material. Dry. Trace fines, rock frags 1", angular. → Brown silt & sand. Poorly graded. Dry.	
8'		1'	7/6"	Same w/ more gravel (1/4") rock & hard frags, rounded. Black silt & fine sand. Trace organics. Dry.	
10		1.25'	9/6"	Poorly graded red sand no coarse material. Dry. Fe+ stained	
12		0'	15/6"		
14'					
15		1'	5/6"	Same	
16'		0.5'	9/6"	Red silty sand. With gravel & rock mat'l.	Moist
18'			4/6"	Same	

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

[redacted]
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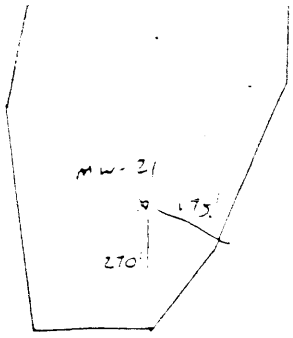
TEST BORING LOG



BORING NO. MW-21				
PROJECT NO.. NAME: Union Road	LOCATION: Landfill Cap			
DRILLING CONTRACTOR/DRILLER: Maine-Empire; D. Rencé				
GEOLOGIST. OFFICE: M. Szuba; Danbury				
DRILLING EQUIPMENT. METHOD: 8¼ HSA	SIZE TYPE OF BIT: 6.25" H.S.A.	SAMPLING METHOD: 2" SS	START. FINISH DA: 2/22/91	
WELL INSTALLED? YES ☒ NO ☐	CASING MAT./DIA.: 2" SS	SCREEN: TYPE MAT. S.S. LENGTH 10' DIA. 2"	SLOT SIZE 20	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE: 623.9	TOP OF WELL CASING: 625'	TOP & BOTTOM SCREEN: 607'-597'	GW SURFACE: dry	DATE: 2/22/91

REMARKS: All Elevation & Depths relative to In-Cal Grade

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOG
		2.25'	40/ft	SAME. 2" PVC Blanked SS opening			
22		1.0	16/ft	Black silt/sand, Angular Rock Frags. Slight Petrol. odor.			
24		1.5	11/ft	Rock core, no visible mineralization			
25				EOB@26'			
30							
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

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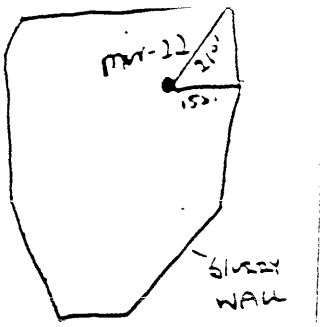
TEST BORING LOG



BORING NO. MW-22	
PROJECT NO., NAME: UNION ROAD	LOCATION: ENGINE LANDFILL CAP
DRILLING CONTRACTOR/DRILLER: MAXIM ENGINE — D. BENÉ	
GEOLOGIST, OFFICE: HANLON/SZUWALA, DANBURY	
DRILLING EQUIPMENT, METHOD: CME 55B, HSA	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 10 SLOT MAT. SS — LENGTH 10' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE: 623.4 — TOP OF WELL CASING: 626.40 — TOP & BOTTOM SCREEN: 606.0' - 596.0' — GW SURFACE: NA — DATE: 2/20/96	
REMARKS: ~2' ABOVE CURRENT SURFACE — PRE-CAP SURFACE	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS
2		2'	13/46	TAN CLAY, WET. FIRM. BOTTOM 6" POSS. ORGANIC, BLACK STAIN, 20% ORGANIC & COARSE MAT'L	
		1'	5/16	SAME. NOT AS COARSE	
4'					
5		1.5'	12/16	SAME RED FINE/MED. SAND. NO FINES MOSTLY GRAVEL	
6'				SAME	
		1'	10/46	CINDER FILL MATERIAL, SOME BLACK MATERIAL, ROCK FRAGS TO 1/2",	
8'		1'	5/16	SAME W/ 1/2" ROCK WALL-LIKE MAT'L	
10		1'	4/12	SAME	
12		1'	5/16	SOME WOOD WASTE & FE STAINING	
14					
15		1'	2/16	SAME	FINE SAND
16		1'	2/16	SAME	
18		1'	6/16	SOME BRICK FRAGS,	COARSE SAND

WELL CONST. | GRAPHIC LITHOLOG

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

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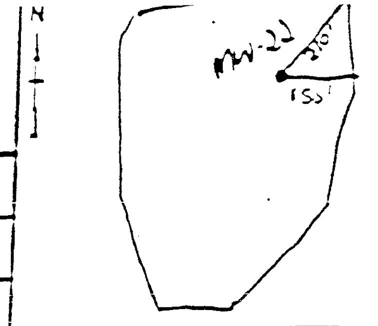


TEST BORING LOG

BORING NO. MW-22

PROJECT NO., NAME: Union Road	LOCATION: Inside Cap
DRILLING CONTRACTOR/DRILLER: Maxim-Empire P. Jencc	
GEOLOGIST, OFFICE: Hanlon / Szwarja Danbury	

DRILLING EQUIPMENT, METHOD	SIZE, TYPE OF BIT	SAMPLING METHOD	START, FINISH DATE
CME 85S	6.25" HSA	SS	2/20/96

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

ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN		GW SURFACE	DATE
	623.4	626.70	606'	596'	NA	2/20/96

REMARKS: PRE-CAP SURFACE

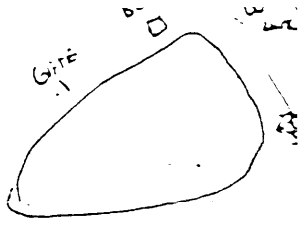
LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
20–22		6"	15/ft	Angular gravelly mat'l, asphalt, wood & sheen. Trace cor. 2" angular rock.	
22–24		6"	15/ft	Same	
24–26		1'	11/ft	Grey clay, firm, trace gravel(s) no coarse mat'l.	Coarse sand
26–28		2'	9/ft	Same	
				EOB 28.0'	

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



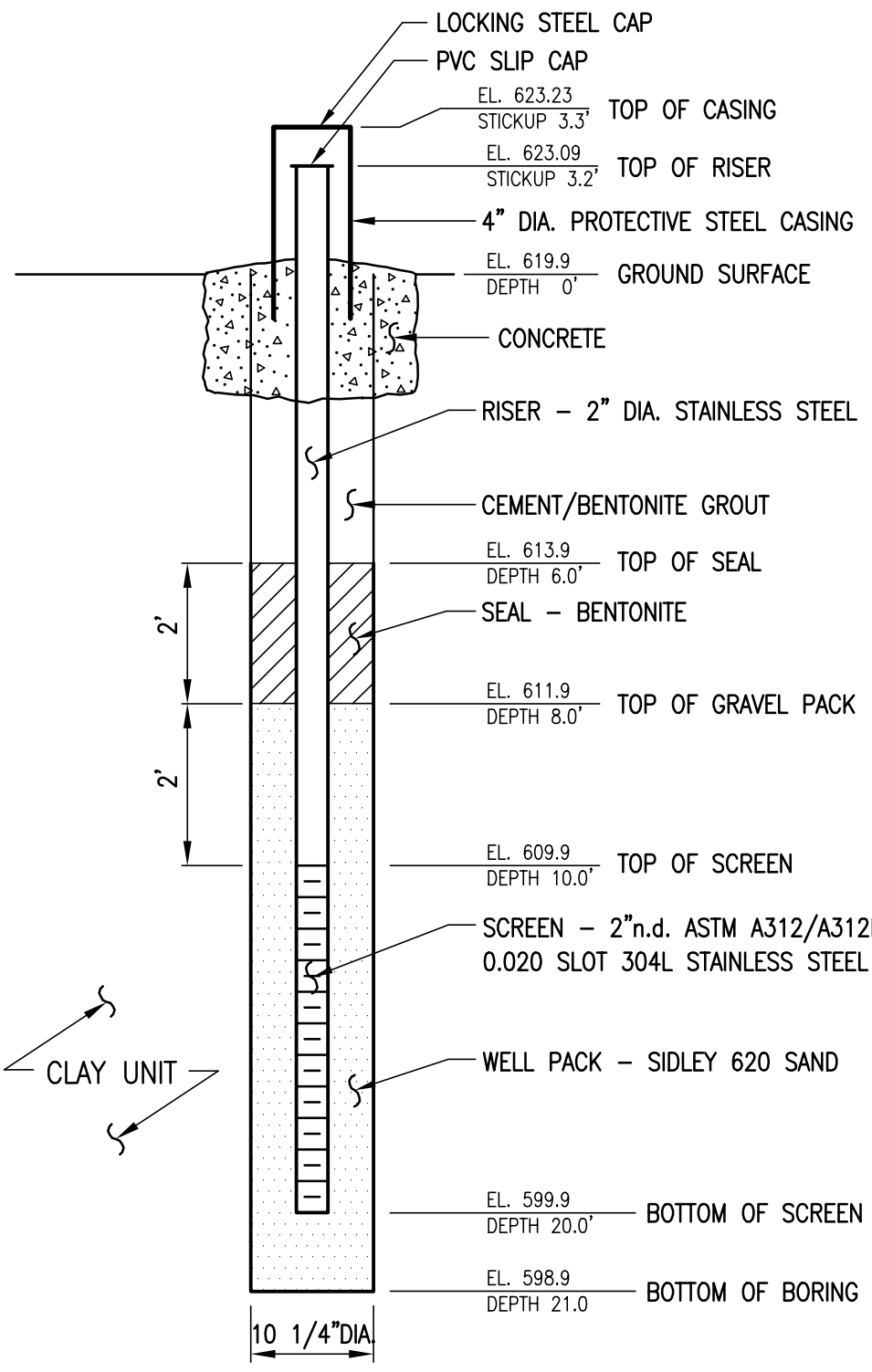
BORING NO. 23S	
PROJECT NO., NAME UNION ROAD 2035-200	LOCATION BUFFALO NY
DRILLING CONTRACTOR/DRILLER MAXIM	
GEOLOGIST, OFFICE JOHN J ZACHER JR	
DRILLING EQUIPMENT, METHOD HSA	SIZE, TYPE OF BIT 10" HSA / SAMPLING METHOD SPLIT SPOON / START, FINISH DA 1-6-97
WELL INSTALLED? YES ☒ NO ☐ / CASING MAT./DIA. 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:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (IN)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC
				SAMPLING STARTS 2' BG.			
2							
	2'	-	4	0-4 TOPSOIL/SAND			
		15"	3	4-15 RED/BROWN CLAY	STIFF - DRY		
	4'		9	15-18 RED/BROWN CLAY, SOME ORG.	STIFF TRACE H2O		
	4		4	0-15 RED/BROWN CLAY	STIFF, TRACE H2O		
5		21"	6	15-21 SOME MOISTURE			
	6		6				
	6		8	0-10 RED/BROWN CLAY	MEDSTIFF DAMP		
		24"	6	10-14 RED/BROWN - GREY CLAY	MEDSTIFF DAMP.		
	8		4	14-24 GREY CLAY	MEDSTIFF, DAMP.		
	8		2	GREY CLAY, LITTLE SAND, LITTLE RKS	SOFT, WET		
		12"	2				
10	10		2				
	10		6	GREY CLAY, LITTLE SAND, LITTLE RKS	SOFT WET		
		17"	5				
	12		4				
	12		2	GREY CLAY, LITTLE SAND, LITTLE RKS	SOFT WET		
		8"	3				
	14		4				
	14		4	GREY CLAY, LITTLE SAND LITTLE RKS	SOFT, WET		
15		10"	3				
	16		3	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

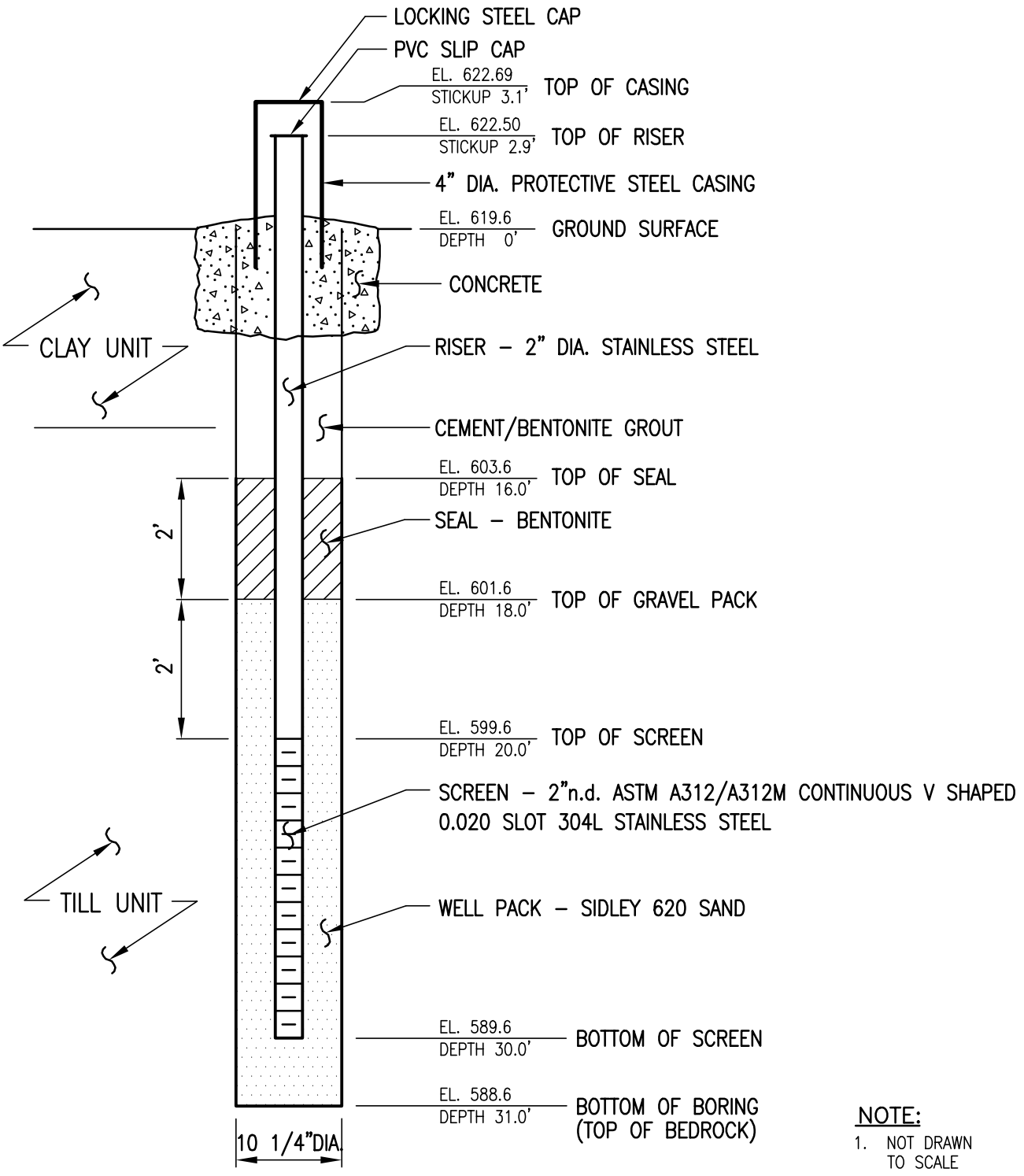


NOTE:

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

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

MW–10M



NOTE:

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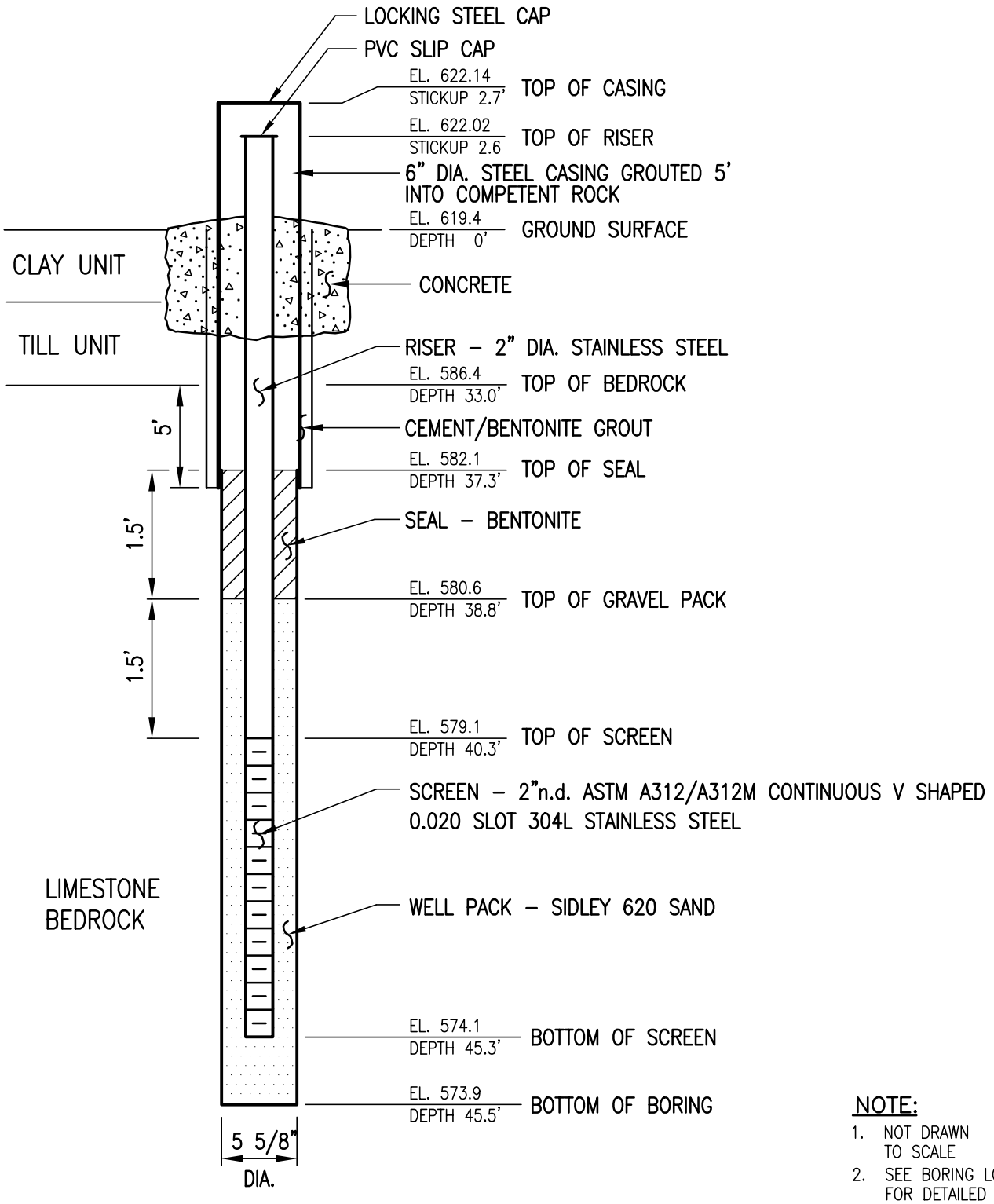
REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200
NO.	DATE				FILENAME: 2035200A
					SCALE: NTS / DATE: 1/15/02
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL		BY: AD / CK:
					FIGURE # MW–10M

MW–10D



NOTE:

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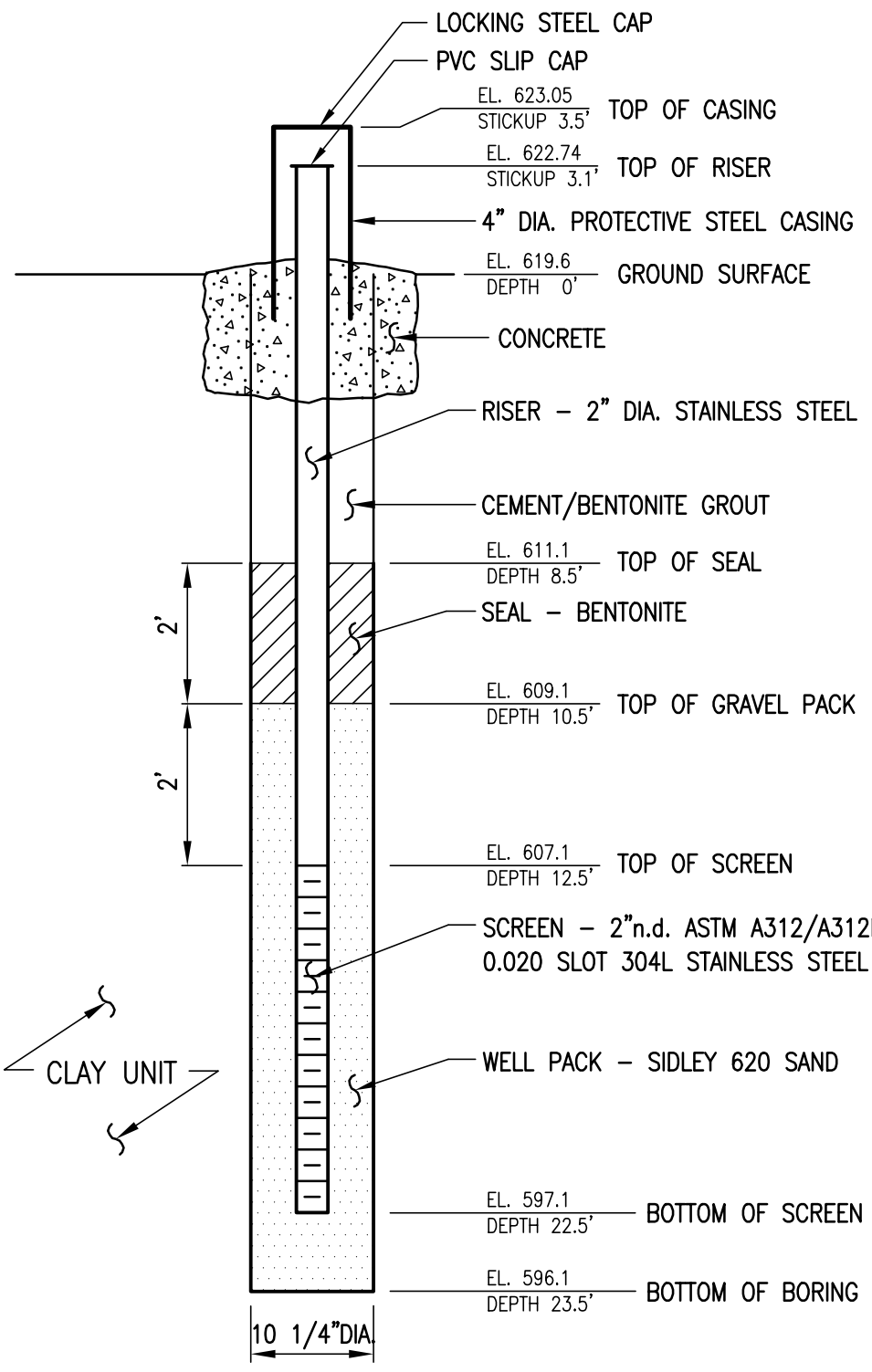
REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200 FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK:
NO.	DATE	DRAWING	BEDROCK GROUNDWATER MONITORING WELL DETAIL		FIGURE # MW–10D

MW–11S



NOTE:

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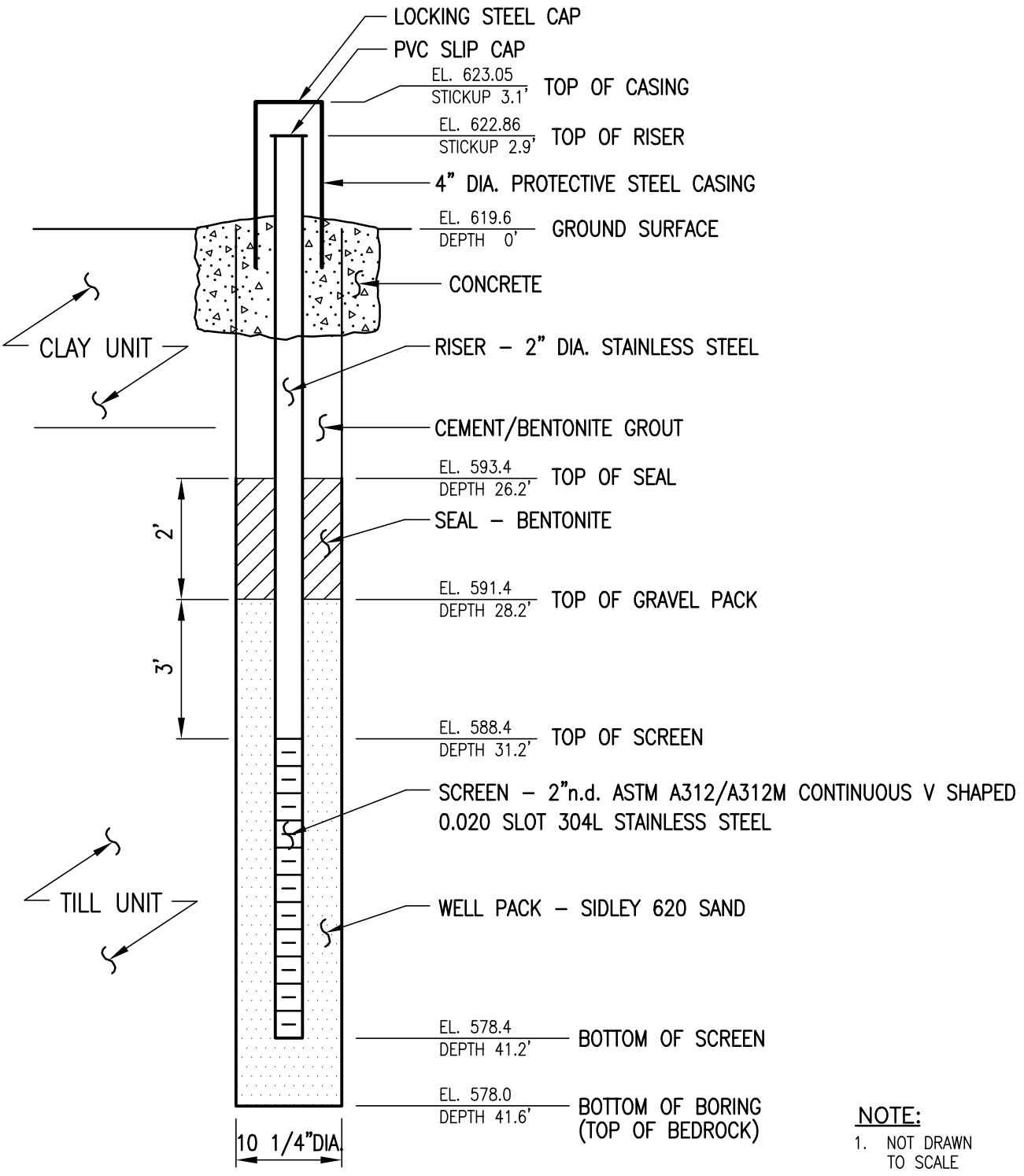
REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200
NO.	DATE				FILENAME: 2035200A
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL		SCALE: NTS DATE: 1/15/02
					BY: AD CK:
					FIGURE # MW–11S

MW–11M



NOTE:

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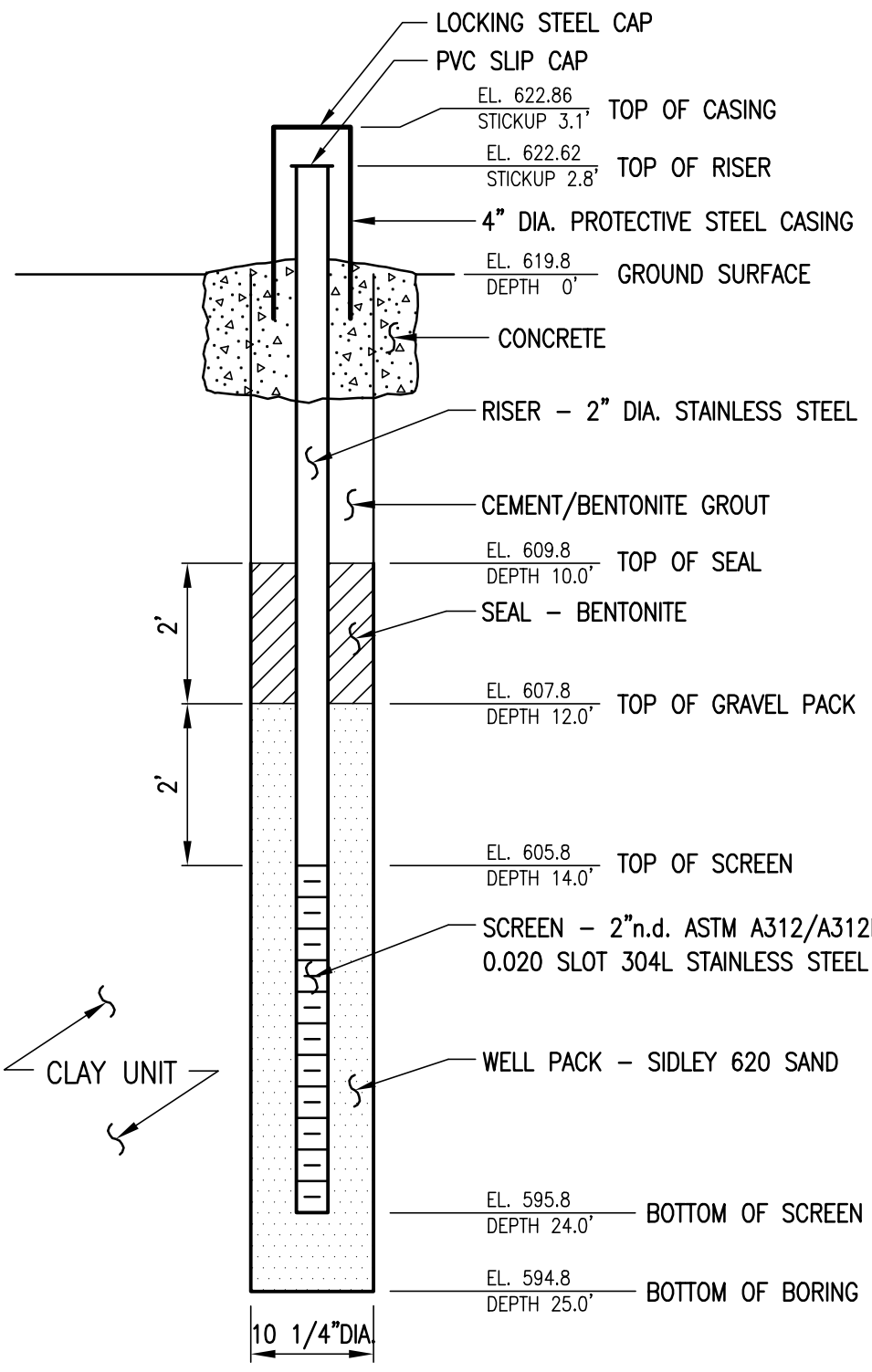
REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200
NO.	DATE				FILENAME: 2035200A
		DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL		SCALE: NTS DATE: 1/15/02
					BY: AD CK:
					FIGURE # MW–11M

MW–12S



NOTE:

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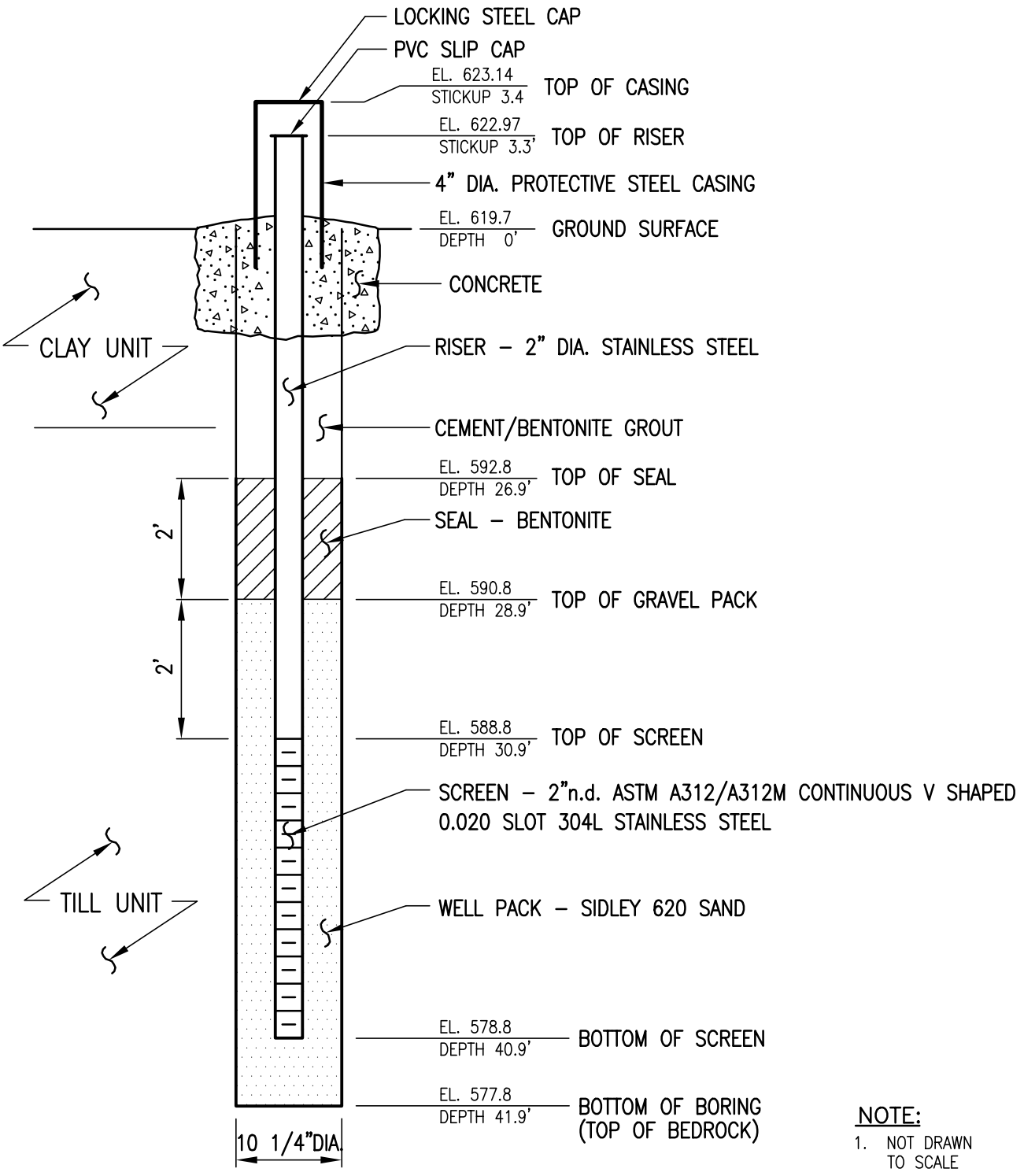
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

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 / DATE: 1/15/02
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL		BY: AD / CK:
					FIGURE # MW–12S

MW–12M



NOTE:

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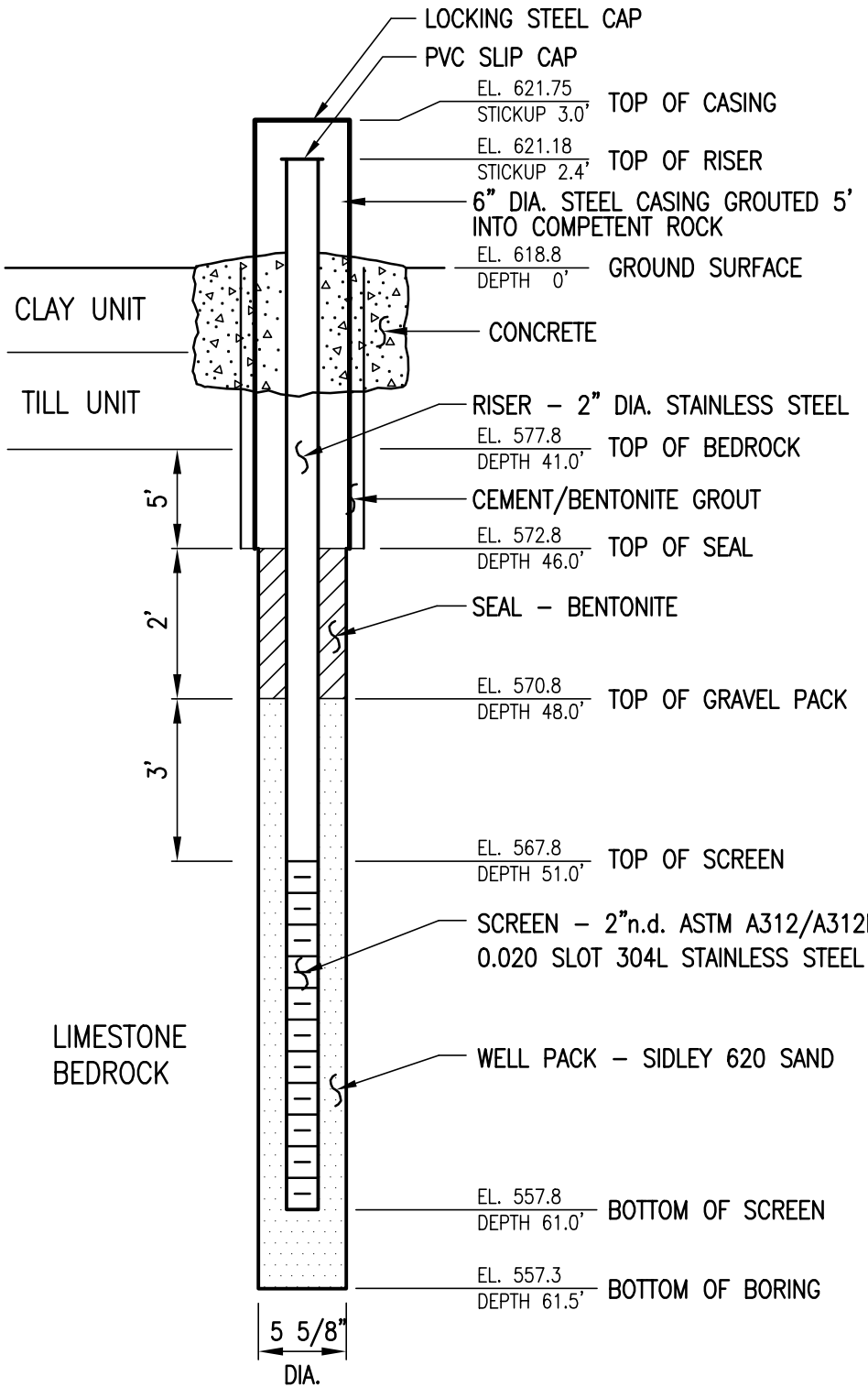
REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200 FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK:
NO.	DATE	DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL		FIGURE # MW–12M

MW–12D



NOTE:

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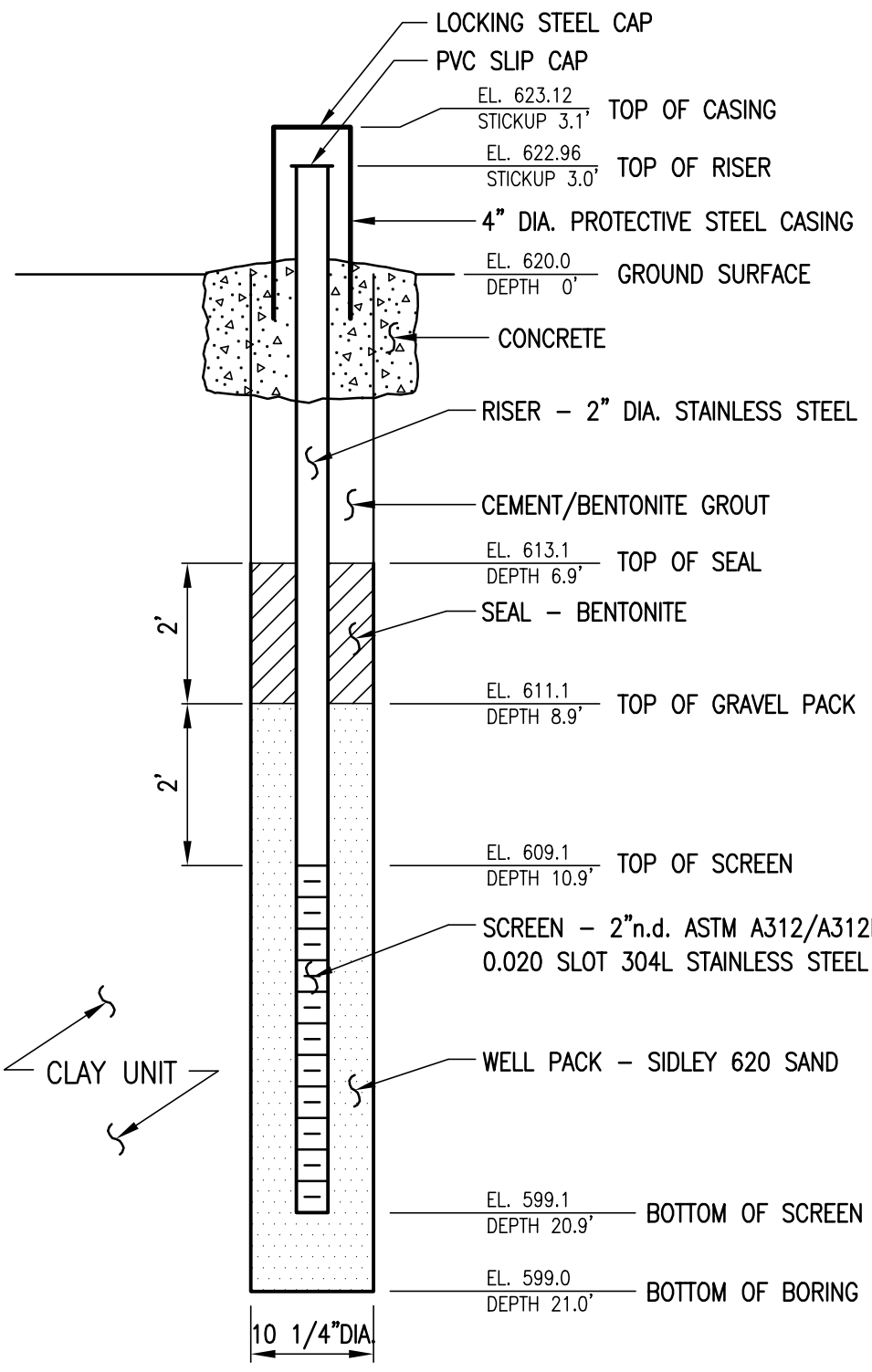
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

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

MW–13S

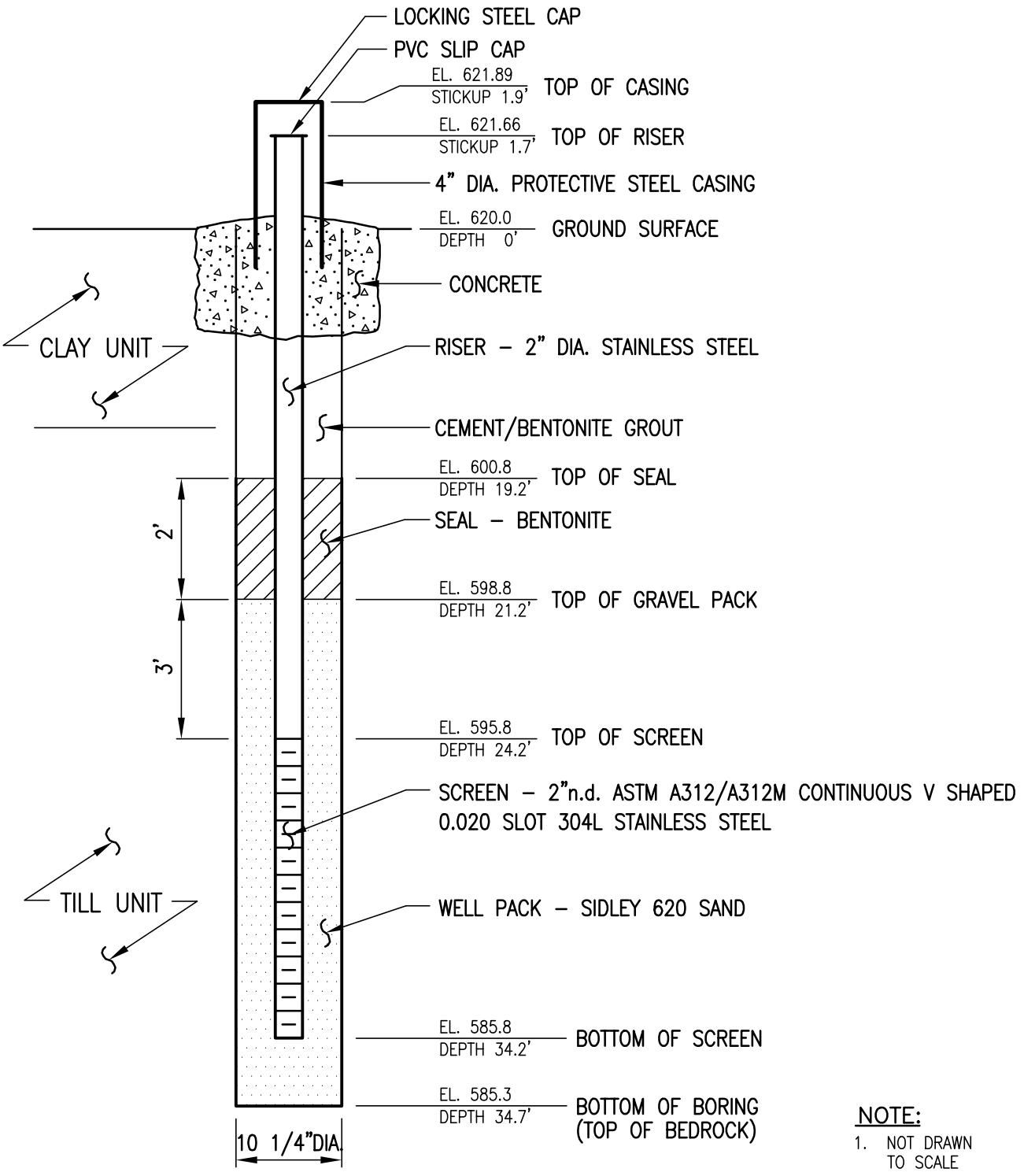


NOTE:

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 / DATE: 1/15/02
		DRAWING	SHALLOW GROUNDWATER MONITORING WELL DETAIL		BY: AD / CK:
					FIGURE # MW–13S

MW–13M



NOTE:

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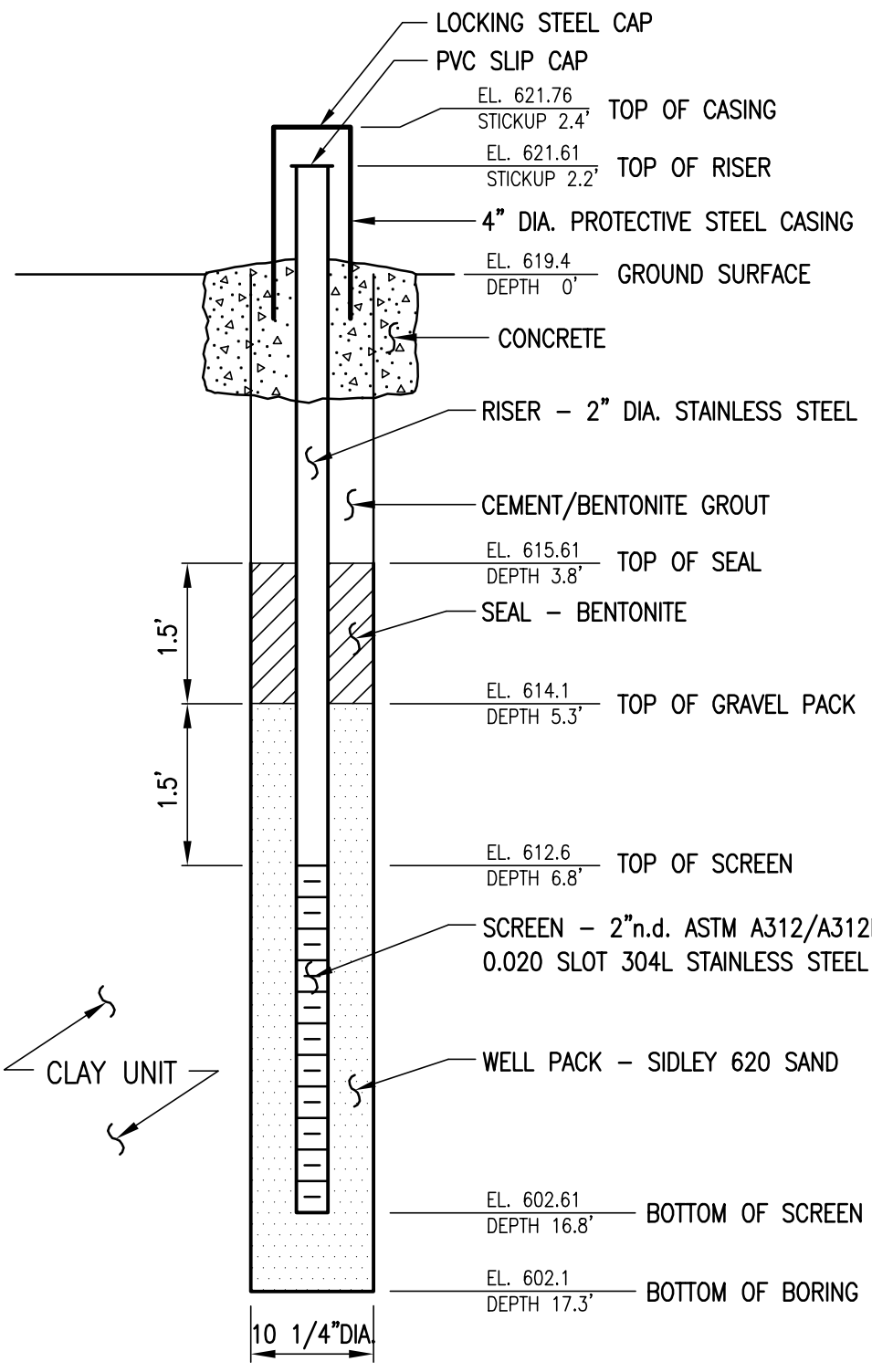
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200 FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK:
NO.	DATE	DRAWING	MEDIUM GROUNDWATER MONITORING WELL DETAIL		FIGURE # MW–13M

MW–14S

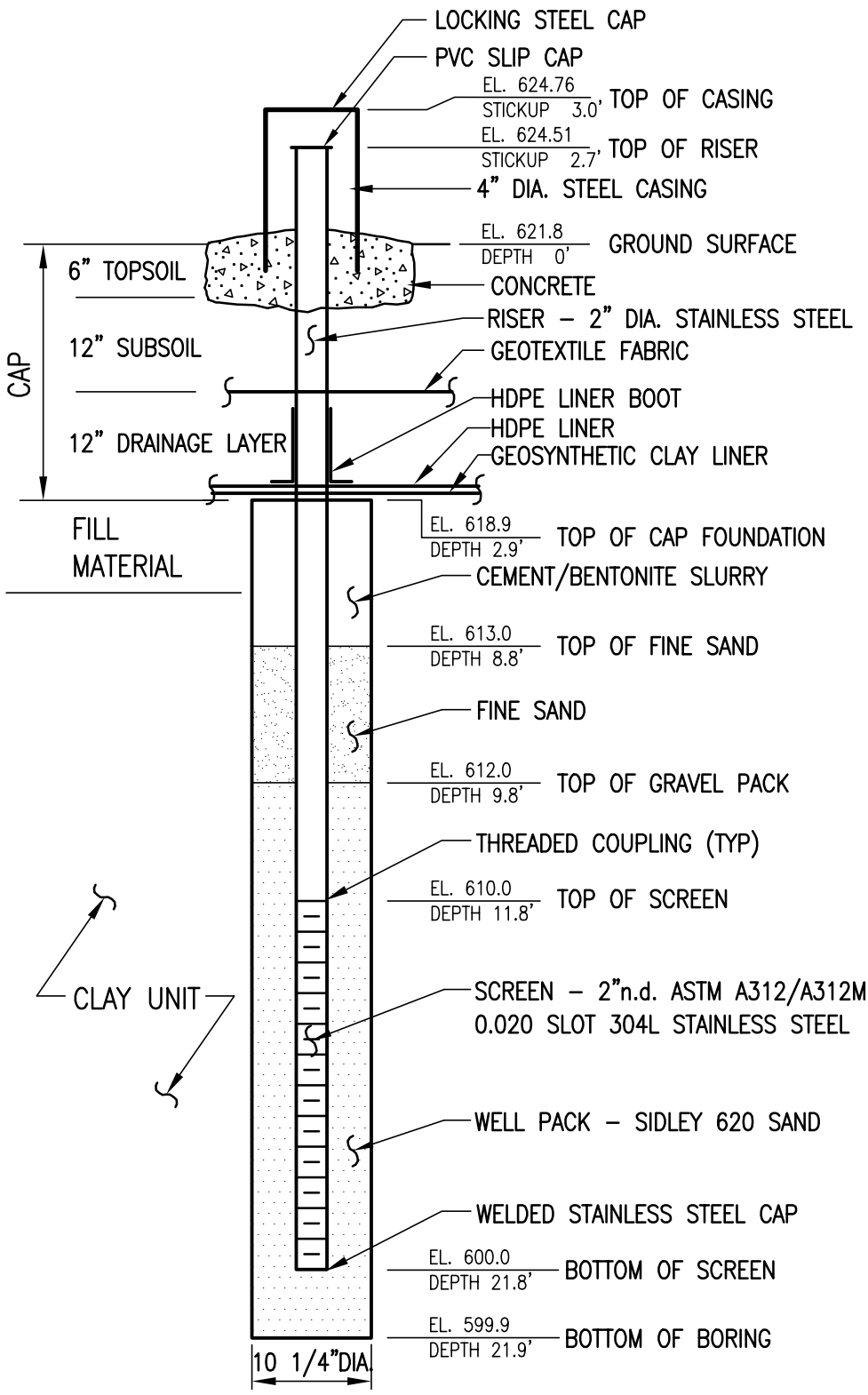


NOTE:

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

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

MW–16



NOTE:

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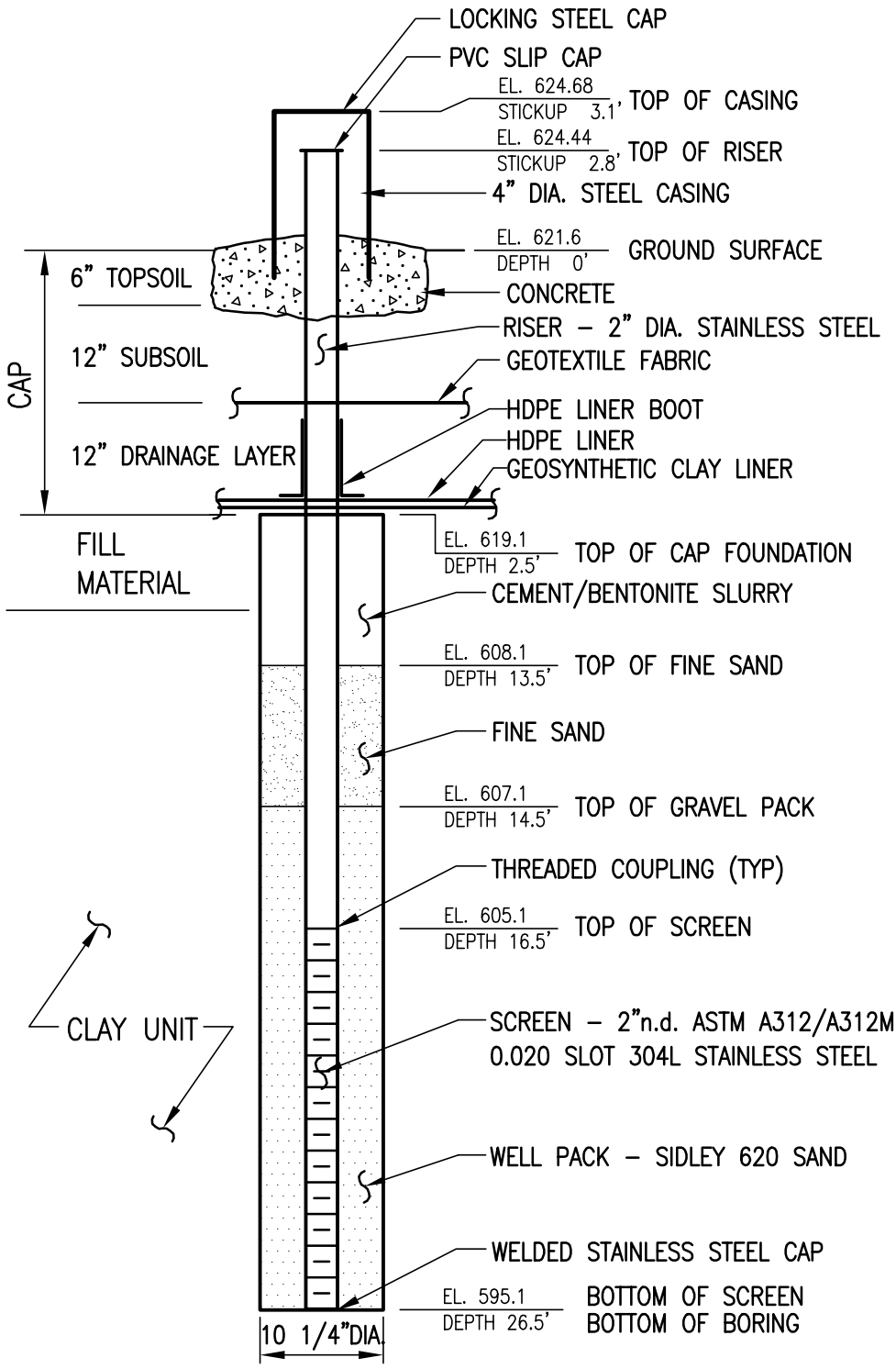
2. SEE BORING LOG FOR DETAILED SOIL DESCRIPTION.

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 / DATE: 1/15/02
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL		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	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200
NO.	DATE				FILENAME: 2035200A
					SCALE: NTS / DATE: 1/15/02
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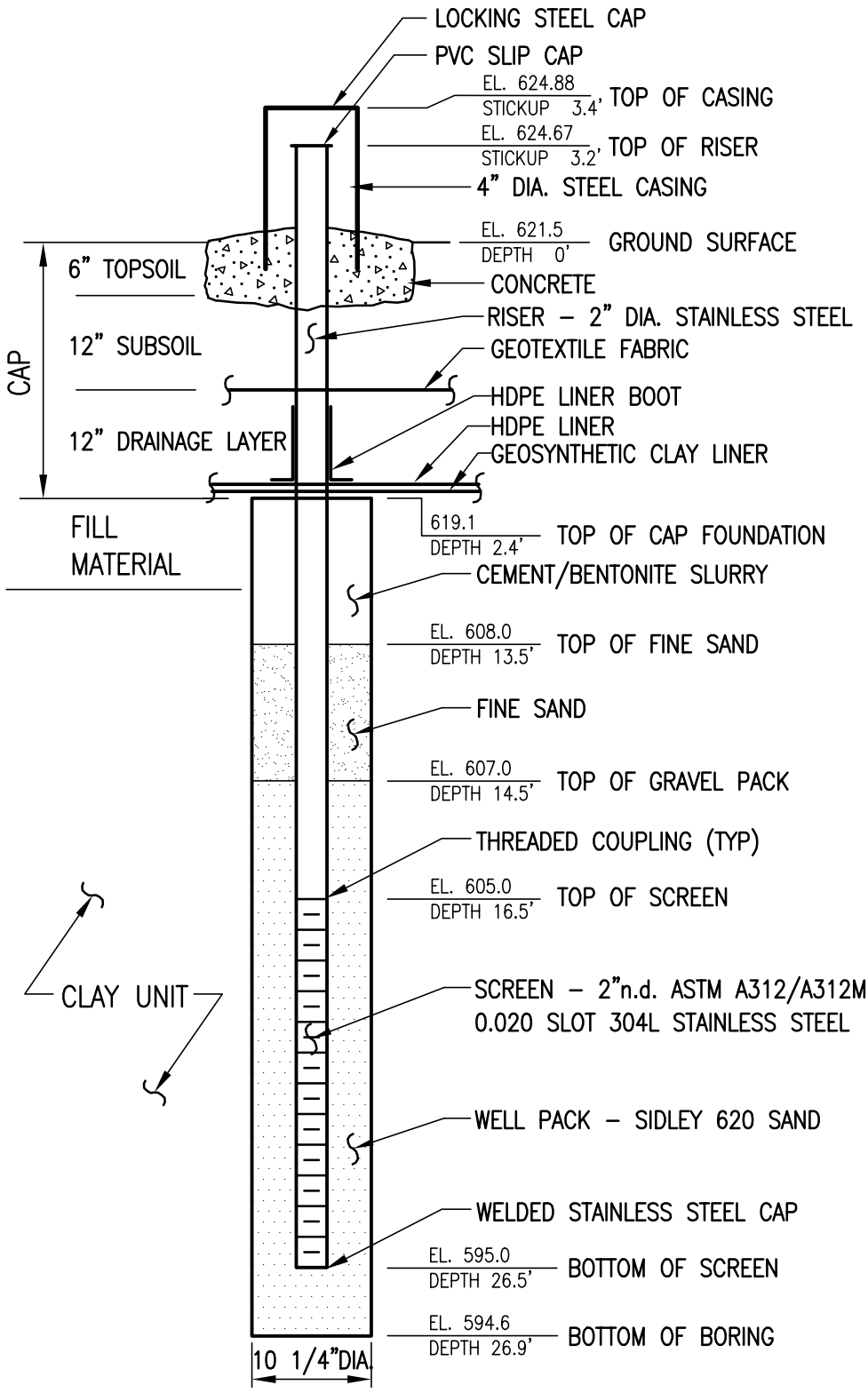
					FIGURE # MW–17

MW–18

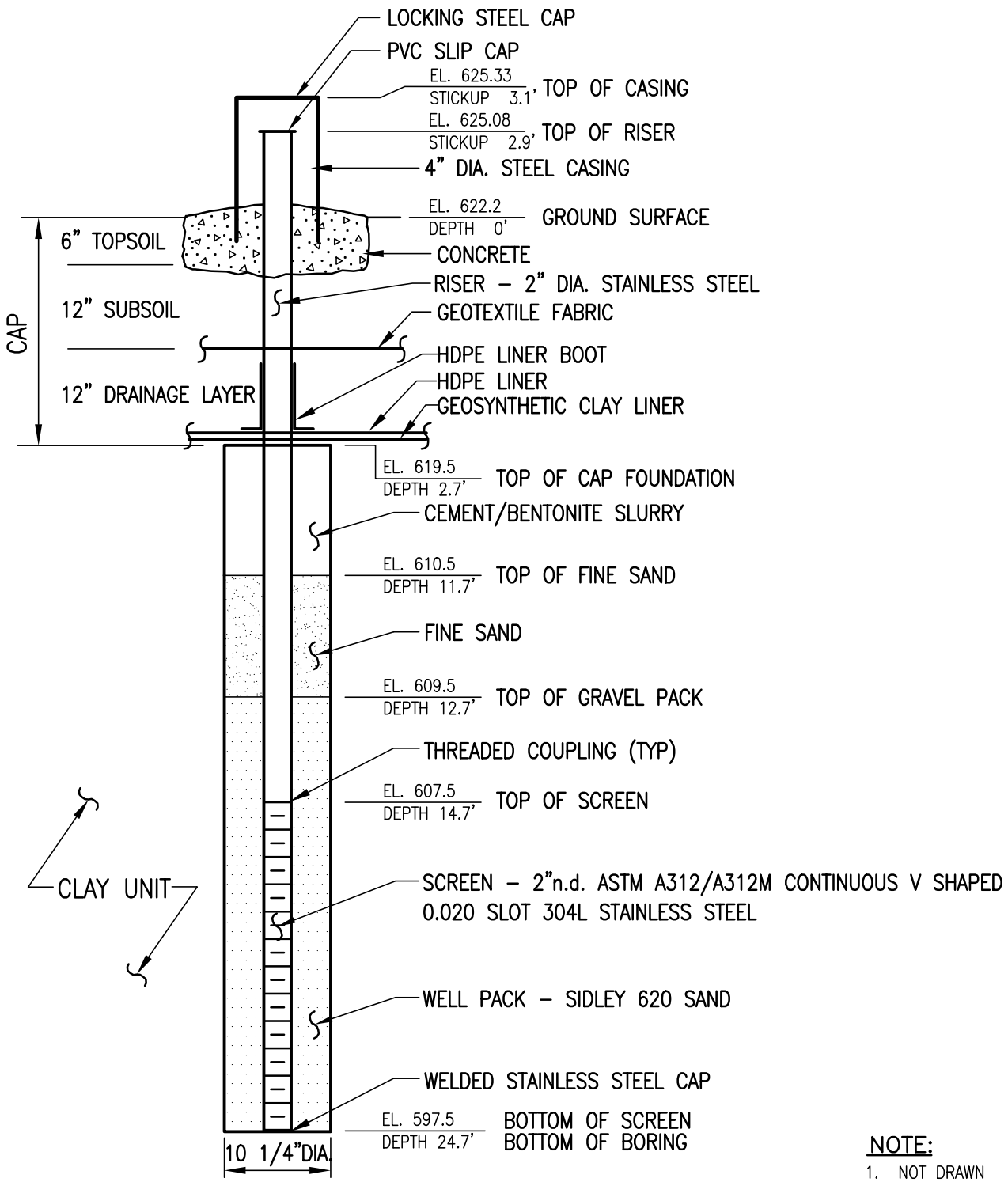


NOTE:

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

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

MW–19

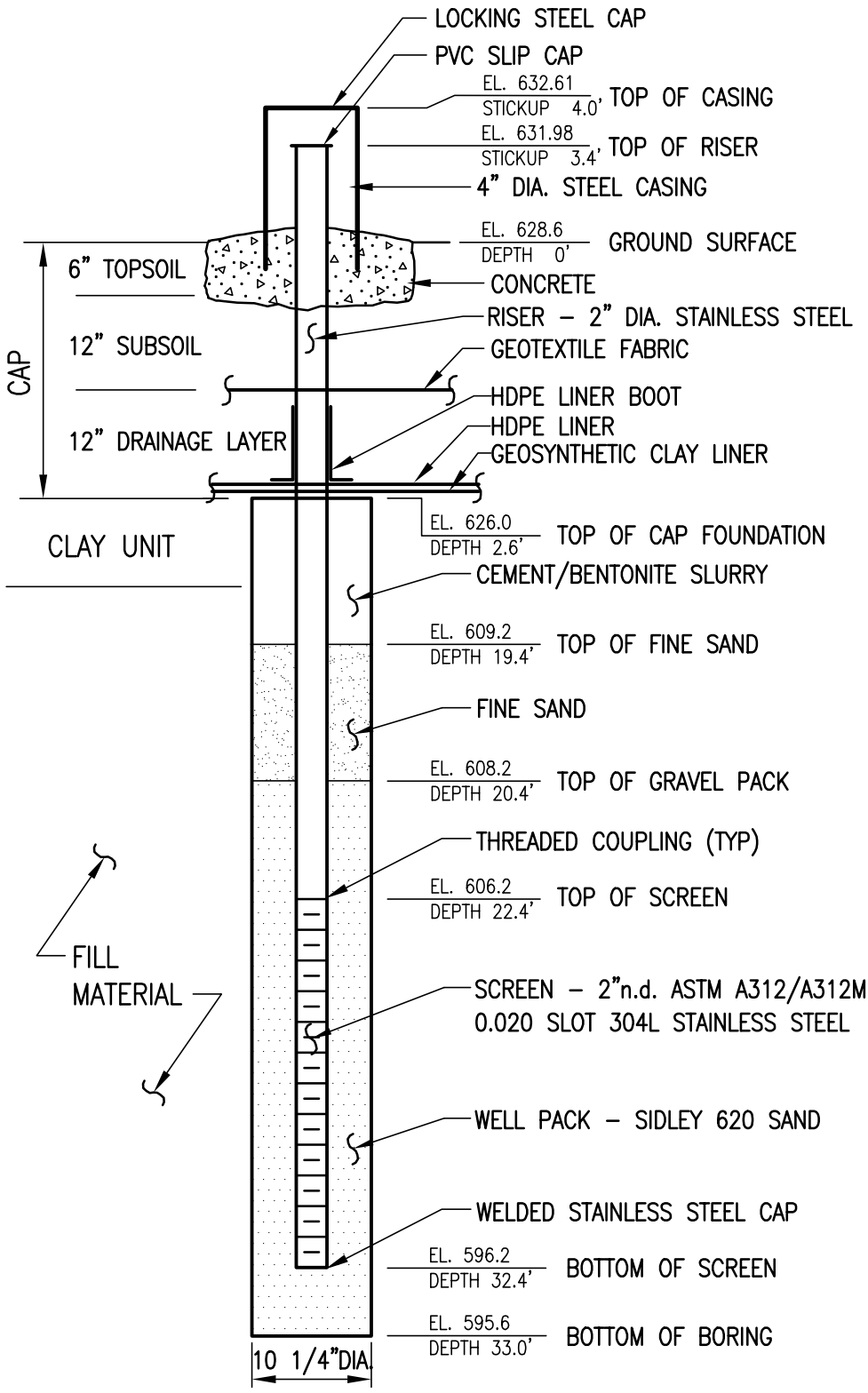


NOTE:

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

REVISION NO.		PROJECT	UNION ROAD CHEEKTOWAGA, NEW YORK	Unicorn Management Consultants, LLC 52 FEDERAL ROAD DANBURY, CT (203) 205-9000	PROJECT # 2011–200 FILENAME: 2035200A SCALE: NTS DATE: 1/15/02 BY: AD CK:
NO.	DATE	DRAWING	GROUNDWATER OBSERVATION WELL DETAIL		FIGURE # MW–19

MW–20

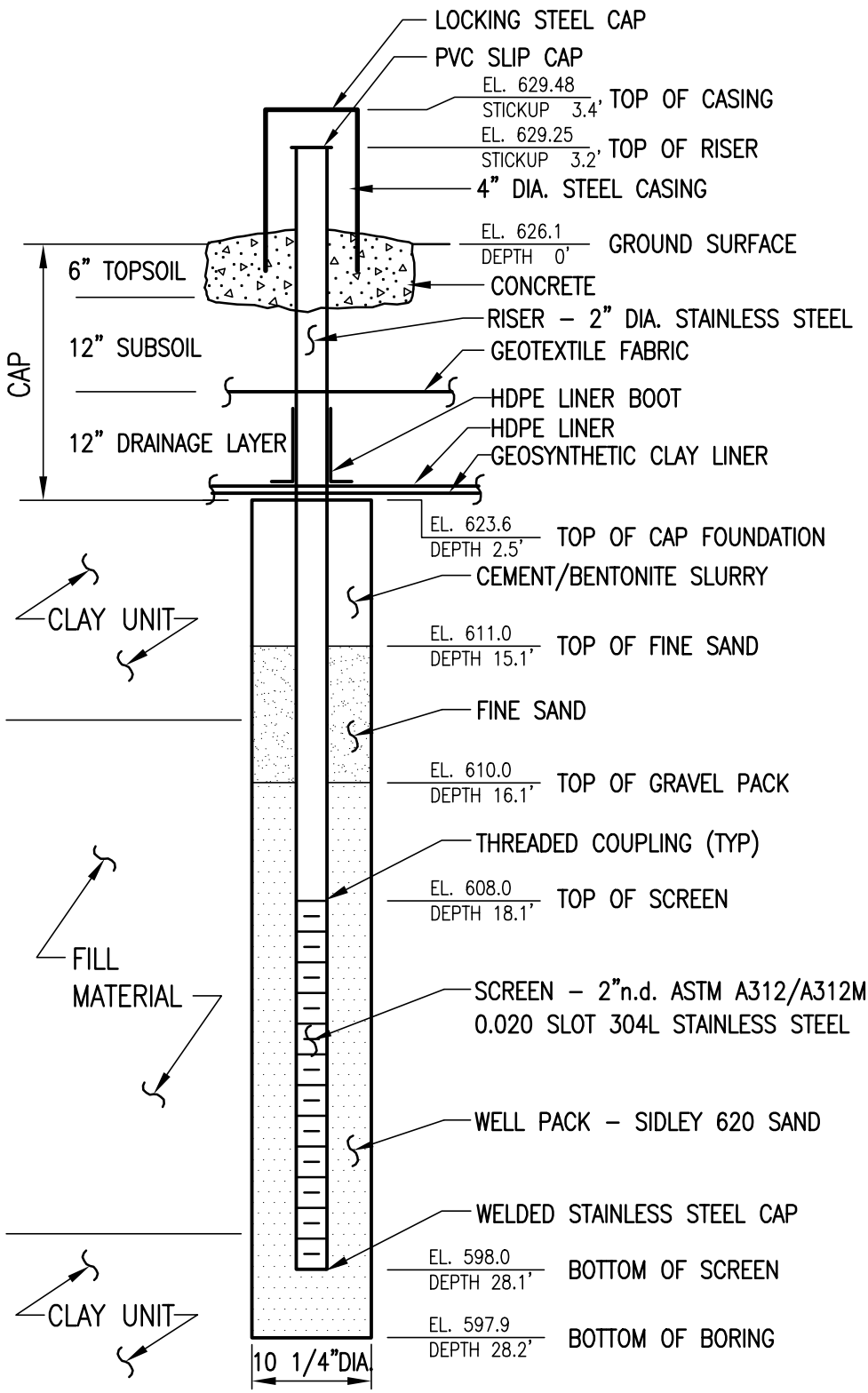


NOTE:

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

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

MW–21

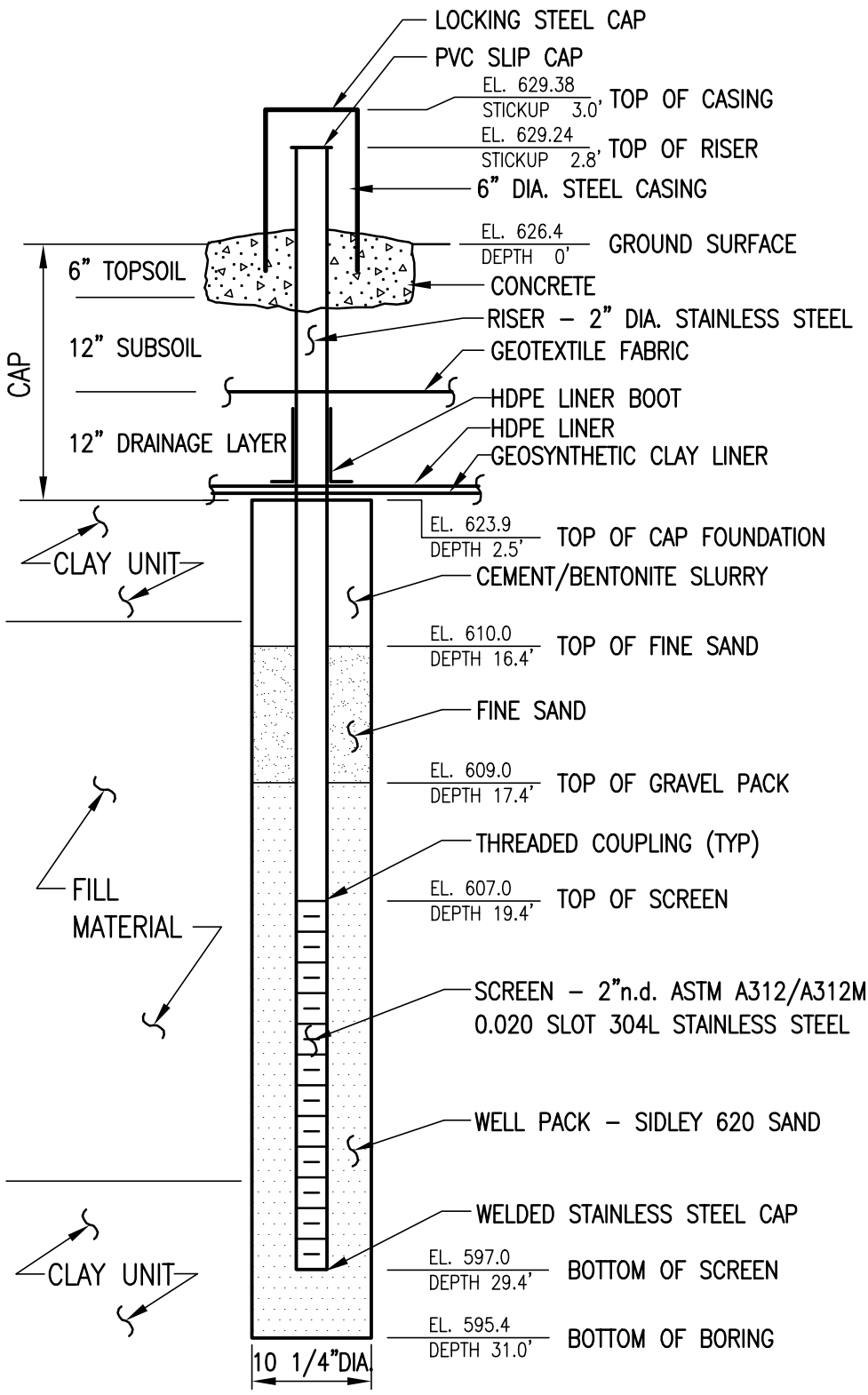


NOTE:

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
					SCALE: NTS / DATE: 1/15/02
		DRAWING	GROUNDWATER OBSERVATION WELL DETAIL		BY: AD / CK:
					FIGURE # MW–21

MW–22

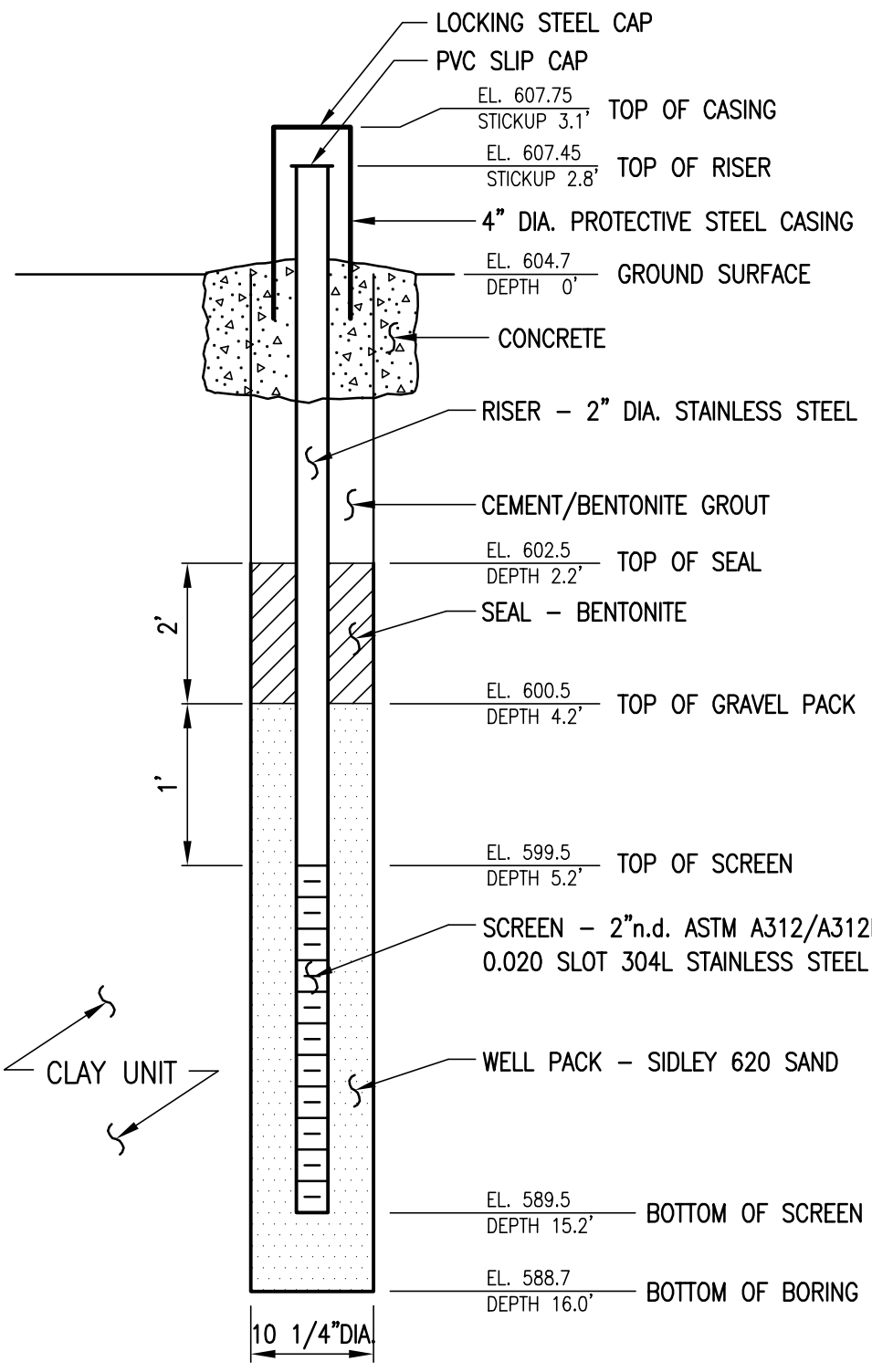


NOTE:

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

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

APPENDIX B

LABORATORY REPORT (ON CD)

October 10, 2014

Service Request No: R1407529

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

Laboratory Results for: Union Rd #2011-100 9/25/14/ 2011-100

Dear Mr. Persico:

Enclosed are the results of the sample(s) submitted to our laboratory on September 25, 2014. For your reference, these analyses have been assigned our service request number **R1407529**.

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 7471. You may also contact me via email at Karen.Bunker@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Karen Bunker
Project Manager

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623 PHONE 585-288-5380 | FAX 585-288-8475
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Client:	Unicorn Management Consultants	**Service Request No.:**	R1407529
Project:	Union Rd #2011-100	**Date Received:**	9/25/14
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental (ALS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses.

Sample Receipt

Eleven (11) water samples were collected by the client on 9/25/14 and were received at the lab via the client on the same day as sampled. The samples were received at a cooler temperature range of 2.5- 4.8°C, within the guidelines of 0-6°C. All samples were received intact. No bubbles were noted in any of the sample vials on the Cooler Receipt and Preservation Check Form.

Volatile Organic Compounds

Eleven (11) water samples were analyzed for Volatile Organics by GC/MS Method 8260C from SW-846.

The Initial calibration criteria was met for these samples. The Continuing Calibration Verifications (CCV's) were acceptable except for the following compounds which had a % Difference (%D) greater than ±20%:
CCV 10/3/14: Bromoform, Bromomethane, trans-1,3-Dichloropropene, 2-Hexanone, 4-Methyl-2-pentanone, and Trichloroethene.
Any hits for these compounds associated with this CCV should be considered as estimated.

All BFB Tune requirements were met for the GC/MS method.

Surrogate standard recoveries were within acceptance limits.

All Laboratory Method Blanks (MB) were free from contamination.

Batch QC is included in the report. All Laboratory Control Sample (LCS) and LCS Duplicate (LCSD) recoveries were within QC limits except for trans, 1,3-Dichlchloropropene (LCSD only) and 1,1,2-Trichloroethane (LCSD only). The recoveries are flagged as "*". No data was affected. All Relative Percent Difference (RPD) calculations were acceptable.

All samples were analyzed within the 14 day holding time from collection to analysis for preserved samples. All vials are checked for preservation after analysis in order to maintain the integrity of the sample. All vials were found to be preserved to a pH of <2 or run within the 7 day holding time for unpreserved samples.

No other analytical or QC problems were encountered.

SemiVolatile Organic Compounds

Eleven (11) water samples were analyzed for SemiVolatile Organics by GC/MS Method 8270D from SW-846.

The initial calibration criteria were met for all samples. Continuing Calibration criteria was acceptable except for the following CCV compounds which were outside the ±20% D on the following run:
Hexachlorocyclopentadiene on the 9/30/14 run.
Any data hits for this compound associated with this CCV should be considered as estimated.

All Tune requirements were met for the GC/MS method.

Surrogate standard recoveries were within acceptance limits for all samples.

Approved by Karen Burdon **Date** 10/13/14

The Laboratory Method Blank (MB) was free from contamination for target compounds.

Batch QC is included in the report. All Laboratory Control Sample (LCS), LCS Duplicate (LCSD) recoveries and RPD calculations were within acceptance limits except for Di-n-octyl Phthalate (LCSD only) on the 9/30/14 run.

All samples were extracted within the 7 day holding time from collection and analyzed within the 40 day holding time from extraction to analysis.

No other analytical or QC problems were encountered.

Inorganic and Metals Parameters

Eleven (11) water samples were analyzed for Oil and Grease by method 1664A and Dissolved Arsenic and Lead by ICP Method 6010C. Dissolved metals were filtered in the laboratory.

All Initial and Continuing Calibration Criteria was met for all analyses.

Metals analyses are reported in ug/L in this report.

Batch QC is included in the report. All Laboratory Control Sample (LCS), LCS Duplicate (LCSD) and RPD's were within acceptance limits.

All Laboratory Method Blanks (MB) were free from contamination.

All samples were analyzed within the 28 day (O/G) and 6 month (ICP Metals) holding times for these analyses.

No problems were encountered during the analysis of these samples.

Approved by Karen Burnley **Date** 10/13/14

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1407529

Lab ID	Client ID
R1407529-001	MW-14S-2014
R1407529-002	MW-14S-2014 Dissolved
R1407529-003	MW-13M-2014
R1407529-004	MW-13M-2014 Dissolved
R1407529-005	MW-13S-2014
R1407529-006	MW-13S-2014 Dissolved
R1407529-007	MW-12S-2014
R1407529-008	MW-12S-2014 Dissolved
R1407529-009	MW-12M-2014
R1407529-010	MW-12M-2014 Dissolved
R1407529-011	MW-12D-2014
R1407529-012	MW-12D-2014 Dissolved
R1407529-013	MW-11S-2014
R1407529-014	MW-11S-2014 Dissolved
R1407529-015	MW-11M-2014
R1407529-016	MW-11M-2014 Dissolved
R1407529-017	MW-10S-2014
R1407529-018	MW-10S-2014 Dissolved
R1407529-019	MW-10M-2014
R1407529-020	MW-10M-2014 Dissolved
R1407529-021	MW-10D-2014
R1407529-022	MW-10D-2014 Dissolved

ALS Environmental

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.

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/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

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.

* 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.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

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 Certifications[1]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
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		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 laboratory case narrative provided. For a specific list of accredited analytes, refer to
http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

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	3010A
200.8	ILM05.3
6010C	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	3010A
6010 SPLP (1312) extract	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.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-14S-2014		
Lab Code:	R1407529-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Collected: 9/25/14 0830
Date Received: 9/25/14

Sample Name: MW-14S-2014 Dissolved
Lab Code: R1407529-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 21:52	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 21:52	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 02:25
Sample Name:	MW-14S-2014	**Units:**	µg/L
Lab Code:	R1407529-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2605.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 02:25
Sample Name:	MW-14S-2014	**Units:**	µg/L
Lab Code:	R1407529-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2605.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	10/4/14 02:25	
Toluene-d8	101	87-121	10/4/14 02:25	
Dibromofluoromethane	103	89-119	10/4/14 02:25	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 22:47
Sample Name:	MW-14S-2014	**Units:**	µg/L
Lab Code:	R1407529-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY253.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 22:47
Sample Name:	MW-14S-2014	**Units:**	µg/L
Lab Code:	R1407529-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY253.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0830
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 22:47
Sample Name:	MW-14S-2014	**Units:**	µg/L
Lab Code:	R1407529-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY253.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	28-157	9/30/14 22:47	
2-Fluorobiphenyl	85	39-119	9/30/14 22:47	
2-Fluorophenol	45	10-105	9/30/14 22:47	
Nitrobenzene-d5	77	37-117	9/30/14 22:47	
Phenol-d6	30	10-107	9/30/14 22:47	
p-Terphenyl-d14	103	40-133	9/30/14 22:47	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-13M-2014		
Lab Code:	R1407529-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-13M-2014 Dissolved		
Lab Code:	R1407529-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 21:59	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 21:59	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 02:55
Sample Name:	MW-13M-2014	**Units:**	µg/L
Lab Code:	R1407529-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2606.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 02:55
Sample Name:	MW-13M-2014	**Units:**	µg/L
Lab Code:	R1407529-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2606.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 02:55	
Toluene-d8	103	87-121	10/4/14 02:55	
Dibromofluoromethane	104	89-119	10/4/14 02:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:14
Sample Name:	MW-13M-2014	**Units:**	µg/L
Lab Code:	R1407529-003	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY254.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:14
Sample Name:	MW-13M-2014	**Units:**	µg/L
Lab Code:	R1407529-003	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY254.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0850
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:14
Sample Name:	MW-13M-2014	**Units:**	µg/L
Lab Code:	R1407529-003	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY254.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	110	28-157	9/30/14 23:14	
2-Fluorobiphenyl	88	39-119	9/30/14 23:14	
2-Fluorophenol	47	10-105	9/30/14 23:14	
Nitrobenzene-d5	80	37-117	9/30/14 23:14	
Phenol-d6	31	10-107	9/30/14 23:14	
p-Terphenyl-d14	111	40-133	9/30/14 23:14	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-13S-2014		
Lab Code:	R1407529-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-13S-2014 Dissolved		
Lab Code:	R1407529-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:05	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 03:24
Sample Name:	MW-13S-2014	**Units:**	µg/L
Lab Code:	R1407529-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2607.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 03:24
Sample Name:	MW-13S-2014	**Units:**	µg/L
Lab Code:	R1407529-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2607.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	10/4/14 03:24	
Toluene-d8	101	87-121	10/4/14 03:24	
Dibromofluoromethane	105	89-119	10/4/14 03:24	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:39
Sample Name:	MW-13S-2014	**Units:**	µg/L
Lab Code:	R1407529-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY255.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:39
Sample Name:	MW-13S-2014	**Units:**	µg/L
Lab Code:	R1407529-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY255.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0910
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 23:39
Sample Name:	MW-13S-2014	**Units:**	µg/L
Lab Code:	R1407529-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY255.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	113	28-157	9/30/14 23:39	
2-Fluorobiphenyl	88	39-119	9/30/14 23:39	
2-Fluorophenol	48	10-105	9/30/14 23:39	
Nitrobenzene-d5	79	37-117	9/30/14 23:39	
Phenol-d6	32	10-107	9/30/14 23:39	
p-Terphenyl-d14	109	40-133	9/30/14 23:39	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-12S-2014		
Lab Code:	R1407529-007	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Collected: 9/25/14 0930
Date Received: 9/25/14

Sample Name: MW-12S-2014 Dissolved
Lab Code: R1407529-008

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:12	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:12	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 03:54
Sample Name:	MW-12S-2014	**Units:**	µg/L
Lab Code:	R1407529-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2608.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 03:54
Sample Name:	MW-12S-2014	**Units:**	µg/L
Lab Code:	R1407529-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2608.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 03:54	
Toluene-d8	103	87-121	10/4/14 03:54	
Dibromofluoromethane	106	89-119	10/4/14 03:54	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:05
Sample Name:	MW-12S-2014	**Units:**	µg/L
Lab Code:	R1407529-007	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY256.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:05
Sample Name:	MW-12S-2014	**Units:**	µg/L
Lab Code:	R1407529-007	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY256.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0930
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:05
Sample Name:	MW-12S-2014	**Units:**	µg/L
Lab Code:	R1407529-007	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY256.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	104	28-157	10/1/14 00:05	
2-Fluorobiphenyl	86	39-119	10/1/14 00:05	
2-Fluorophenol	42	10-105	10/1/14 00:05	
Nitrobenzene-d5	79	37-117	10/1/14 00:05	
Phenol-d6	29	10-107	10/1/14 00:05	
p-Terphenyl-d14	103	40-133	10/1/14 00:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-12M-2014		
Lab Code:	R1407529-009	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-12M-2014 Dissolved		
Lab Code:	R1407529-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:18	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 04:24
Sample Name:	MW-12M-2014	**Units:**	µg/L
Lab Code:	R1407529-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2609.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 04:24
Sample Name:	MW-12M-2014	**Units:**	µg/L
Lab Code:	R1407529-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2609.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 04:24	
Toluene-d8	101	87-121	10/4/14 04:24	
Dibromofluoromethane	103	89-119	10/4/14 04:24	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:30
Sample Name:	MW-12M-2014	**Units:**	µg/L
Lab Code:	R1407529-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY257.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:30
Sample Name:	MW-12M-2014	**Units:**	µg/L
Lab Code:	R1407529-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY257.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 0945
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:30
Sample Name:	MW-12M-2014	**Units:**	µg/L
Lab Code:	R1407529-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY257.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	107	28-157	10/1/14 00:30	
2-Fluorobiphenyl	89	39-119	10/1/14 00:30	
2-Fluorophenol	46	10-105	10/1/14 00:30	
Nitrobenzene-d5	82	37-117	10/1/14 00:30	
Phenol-d6	30	10-107	10/1/14 00:30	
p-Terphenyl-d14	106	40-133	10/1/14 00:30	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-12D-2014		
Lab Code:	R1407529-011	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-12D-2014 Dissolved		
Lab Code:	R1407529-012	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:25	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:25	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 04:54
Sample Name:	MW-12D-2014	**Units:**	µg/L
Lab Code:	R1407529-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2610.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 04:54
Sample Name:	MW-12D-2014	**Units:**	µg/L
Lab Code:	R1407529-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2610.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	10/4/14 04:54	
Toluene-d8	103	87-121	10/4/14 04:54	
Dibromofluoromethane	104	89-119	10/4/14 04:54	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:56
Sample Name:	MW-12D-2014	**Units:**	µg/L
Lab Code:	R1407529-011	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY258.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:56
Sample Name:	MW-12D-2014	**Units:**	µg/L
Lab Code:	R1407529-011	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY258.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	**22**		9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1000
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 00:56
Sample Name:	MW-12D-2014	**Units:**	µg/L
Lab Code:	R1407529-011	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY258.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	28-157	10/1/14 00:56	
2-Fluorobiphenyl	90	39-119	10/1/14 00:56	
2-Fluorophenol	49	10-105	10/1/14 00:56	
Nitrobenzene-d5	83	37-117	10/1/14 00:56	
Phenol-d6	31	10-107	10/1/14 00:56	
p-Terphenyl-d14	112	40-133	10/1/14 00:56	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-11S-2014		
Lab Code:	R1407529-013	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-11S-2014 Dissolved		
Lab Code:	R1407529-014	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:31	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 05:24
Sample Name:	MW-11S-2014	**Units:**	µg/L
Lab Code:	R1407529-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2611.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 05:24
Sample Name:	MW-11S-2014	**Units:**	µg/L
Lab Code:	R1407529-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2611.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	10/4/14 05:24	
Toluene-d8	102	87-121	10/4/14 05:24	
Dibromofluoromethane	105	89-119	10/4/14 05:24	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:22
Sample Name:	MW-11S-2014	**Units:**	µg/L
Lab Code:	R1407529-013	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY259.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:22
Sample Name:	MW-11S-2014	**Units:**	µg/L
Lab Code:	R1407529-013	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY259.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1020
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:22
Sample Name:	MW-11S-2014	**Units:**	µg/L
Lab Code:	R1407529-013	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY259.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	28-157	10/1/14 01:22	
2-Fluorobiphenyl	92	39-119	10/1/14 01:22	
2-Fluorophenol	47	10-105	10/1/14 01:22	
Nitrobenzene-d5	82	37-117	10/1/14 01:22	
Phenol-d6	30	10-107	10/1/14 01:22	
p-Terphenyl-d14	106	40-133	10/1/14 01:22	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-11M-2014		
Lab Code:	R1407529-015	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-11M-2014 Dissolved		
Lab Code:	R1407529-016	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:50	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:50	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 05:53
Sample Name:	MW-11M-2014	**Units:**	µg/L
Lab Code:	R1407529-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2612.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 05:53
Sample Name:	MW-11M-2014	**Units:**	µg/L
Lab Code:	R1407529-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2612.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85-122	10/4/14 05:53	
Toluene-d8	102	87-121	10/4/14 05:53	
Dibromofluoromethane	105	89-119	10/4/14 05:53	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:48
Sample Name:	MW-11M-2014	**Units:**	µg/L
Lab Code:	R1407529-015	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY260.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:48
Sample Name:	MW-11M-2014	**Units:**	µg/L
Lab Code:	R1407529-015	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY260.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	50		9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1030
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 01:48
Sample Name:	MW-11M-2014	**Units:**	µg/L
Lab Code:	R1407529-015	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY260.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	28-157	10/1/14 01:48	
2-Fluorobiphenyl	92	39-119	10/1/14 01:48	
2-Fluorophenol	51	10-105	10/1/14 01:48	
Nitrobenzene-d5	82	37-117	10/1/14 01:48	
Phenol-d6	29	10-107	10/1/14 01:48	
p-Terphenyl-d14	105	40-133	10/1/14 01:48	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10S-2014		
Lab Code:	R1407529-017	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10S-2014 Dissolved		
Lab Code:	R1407529-018	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 22:57	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 22:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 06:23
Sample Name:	MW-10S-2014	**Units:**	µg/L
Lab Code:	R1407529-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2613.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 06:23
Sample Name:	MW-10S-2014	**Units:**	µg/L
Lab Code:	R1407529-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2613.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 06:23	
Toluene-d8	102	87-121	10/4/14 06:23	
Dibromofluoromethane	103	89-119	10/4/14 06:23	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:44
Sample Name:	MW-10S-2014	**Units:**	µg/L
Lab Code:	R1407529-017	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY177.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:44
Sample Name:	MW-10S-2014	**Units:**	µg/L
Lab Code:	R1407529-017	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY177.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1050
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:44
Sample Name:	MW-10S-2014	**Units:**	µg/L
Lab Code:	R1407529-017	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY177.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	97	28-157	10/1/14 16:44	
2-Fluorobiphenyl	89	39-119	10/1/14 16:44	
2-Fluorophenol	45	10-105	10/1/14 16:44	
Nitrobenzene-d5	79	37-117	10/1/14 16:44	
Phenol-d6	29	10-107	10/1/14 16:44	
p-Terphenyl-d14	96	40-133	10/1/14 16:44	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10M-2014		
Lab Code:	R1407529-019	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10M-2014 Dissolved		
Lab Code:	R1407529-020	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 23:03	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 23:03	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 06:53
Sample Name:	MW-10M-2014	**Units:**	µg/L
Lab Code:	R1407529-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2614.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 06:53
Sample Name:	MW-10M-2014	**Units:**	µg/L
Lab Code:	R1407529-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2614.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 06:53	
Toluene-d8	102	87-121	10/4/14 06:53	
Dibromofluoromethane	103	89-119	10/4/14 06:53	

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:10
Sample Name:	MW-10M-2014	**Units:**	µg/L
Lab Code:	R1407529-019	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY178.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:10
Sample Name:	MW-10M-2014	**Units:**	µg/L
Lab Code:	R1407529-019	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY178.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1110
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:10
Sample Name:	MW-10M-2014	**Units:**	µg/L
Lab Code:	R1407529-019	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY178.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	101	28-157	10/1/14 17:10	
2-Fluorobiphenyl	85	39-119	10/1/14 17:10	
2-Fluorophenol	44	10-105	10/1/14 17:10	
Nitrobenzene-d5	85	37-117	10/1/14 17:10	
Phenol-d6	28	10-107	10/1/14 17:10	
p-Terphenyl-d14	88	40-133	10/1/14 17:10	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10D-2014		
Lab Code:	R1407529-021	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	4.7	U	mg/L	4.7	1	NA	9/29/14 09:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
Sample Name:	MW-10D-2014 Dissolved		
Lab Code:	R1407529-022	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 23:09	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 23:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 07:22
Sample Name:	MW-10D-2014	**Units:**	µg/L
Lab Code:	R1407529-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2615.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Analyzed:	10/4/14 07:22
Sample Name:	MW-10D-2014	**Units:**	µg/L
Lab Code:	R1407529-021	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2615.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	10/4/14 07:22	
Toluene-d8	102	87-121	10/4/14 07:22	
Dibromofluoromethane	107	89-119	10/4/14 07:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:36
Sample Name:	MW-10D-2014	**Units:**	µg/L
Lab Code:	R1407529-021	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY179.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	9.4	U	9.4	
95-50-1	1,2-Dichlorobenzene	9.4	U	9.4	
541-73-1	1,3-Dichlorobenzene	9.4	U	9.4	
106-46-7	1,4-Dichlorobenzene	9.4	U	9.4	
95-95-4	2,4,5-Trichlorophenol	9.4	U	9.4	
88-06-2	2,4,6-Trichlorophenol	9.4	U	9.4	
120-83-2	2,4-Dichlorophenol	9.4	U	9.4	
105-67-9	2,4-Dimethylphenol	9.4	U	9.4	
51-28-5	2,4-Dinitrophenol	47	U	47	
121-14-2	2,4-Dinitrotoluene	9.4	U	9.4	
606-20-2	2,6-Dinitrotoluene	9.4	U	9.4	
91-58-7	2-Chloronaphthalene	9.4	U	9.4	
95-57-8	2-Chlorophenol	9.4	U	9.4	
91-57-6	2-Methylnaphthalene	9.4	U	9.4	
95-48-7	2-Methylphenol	9.4	U	9.4	
88-74-4	2-Nitroaniline	47	U	47	
88-75-5	2-Nitrophenol	9.4	U	9.4	
91-94-1	3,3'-Dichlorobenzidine	9.4	U	9.4	
	3- and 4-Methylphenol Coelution	9.4	U	9.4	
99-09-2	3-Nitroaniline	47	U	47	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	47	
101-55-3	4-Bromophenyl Phenyl Ether	9.4	U	9.4	
59-50-7	4-Chloro-3-methylphenol	9.4	U	9.4	
106-47-8	4-Chloroaniline	9.4	U	9.4	
7005-72-3	4-Chlorophenyl Phenyl Ether	9.4	U	9.4	
100-01-6	4-Nitroaniline	47	U	47	
100-02-7	4-Nitrophenol	47	U	47	
83-32-9	Acenaphthene	9.4	U	9.4	
208-96-8	Acenaphthylene	9.4	U	9.4	
120-12-7	Anthracene	9.4	U	9.4	
56-55-3	Benz(a)anthracene	9.4	U	9.4	
50-32-8	Benzo(a)pyrene	9.4	U	9.4	
205-99-2	Benzo(b)fluoranthene	9.4	U	9.4	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:36
Sample Name:	MW-10D-2014	**Units:**	µg/L
Lab Code:	R1407529-021	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY179.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	9.4	U	9.4	
207-08-9	Benzo(k)fluoranthene	9.4	U	9.4	
100-51-6	Benzyl Alcohol	9.4	U	9.4	
108-60-1	2,2'-Oxybis(1-chloropropane)	9.4	U	9.4	
111-91-1	Bis(2-chloroethoxy)methane	9.4	U	9.4	
111-44-4	Bis(2-chloroethyl) Ether	9.4	U	9.4	
117-81-7	Bis(2-ethylhexyl) Phthalate	9.4	U	9.4	
85-68-7	Butyl Benzyl Phthalate	9.4	U	9.4	
86-74-8	Carbazole	9.4	U	9.4	
218-01-9	Chrysene	9.4	U	9.4	
84-74-2	Di-n-butyl Phthalate	9.4	U	9.4	
117-84-0	Di-n-octyl Phthalate	9.4	U	9.4	
53-70-3	Dibenz(a,h)anthracene	9.4	U	9.4	
132-64-9	Dibenzofuran	9.4	U	9.4	
84-66-2	Diethyl Phthalate	9.4	U	9.4	
131-11-3	Dimethyl Phthalate	9.4	U	9.4	
206-44-0	Fluoranthene	9.4	U	9.4	
86-73-7	Fluorene	9.4	U	9.4	
118-74-1	Hexachlorobenzene	9.4	U	9.4	
87-68-3	Hexachlorobutadiene	9.4	U	9.4	
77-47-4	Hexachlorocyclopentadiene	9.4	U	9.4	
67-72-1	Hexachloroethane	9.4	U	9.4	
193-39-5	Indeno(1,2,3-cd)pyrene	9.4	U	9.4	
78-59-1	Isophorone	9.4	U	9.4	
621-64-7	N-Nitrosodi-n-propylamine	9.4	U	9.4	
62-75-9	N-Nitrosodimethylamine	9.4	U	9.4	
86-30-6	N-Nitrosodiphenylamine	9.4	U	9.4	
91-20-3	Naphthalene	9.4	U	9.4	
98-95-3	Nitrobenzene	9.4	U	9.4	
87-86-5	Pentachlorophenol (PCP)	47	U	47	
85-01-8	Phenanthrene	9.4	U	9.4	
108-95-2	Phenol	9.4	U	9.4	
129-00-0	Pyrene	9.4	U	9.4	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	9/25/14 1125
Sample Matrix:	Water	**Date Received:**	9/25/14
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 17:36
Sample Name:	MW-10D-2014	**Units:**	µg/L
Lab Code:	R1407529-021	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY179.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	28-157	10/1/14 17:36	
2-Fluorobiphenyl	90	39-119	10/1/14 17:36	
2-Fluorophenol	45	10-105	10/1/14 17:36	
Nitrobenzene-d5	83	37-117	10/1/14 17:36	
Phenol-d6	30	10-107	10/1/14 17:36	
p-Terphenyl-d14	101	40-133	10/1/14 17:36	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1407529-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Oil and Grease, Nonpolar (SGT-HEM)	1664A	5.0	U	mg/L	5.0	1	NA	9/29/14 09:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1407529-MB1	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 21:33	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 21:33	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1407529-MB2	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	9/30/14	10/2/14 21:46	
Lead, Dissolved	6010C	50	U	µg/L	50	1	9/30/14	10/2/14 21:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/4/14 01:55
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412173-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2604.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10	U	10	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	
179601-23-1	m,p-Xylenes	5.0	U	5.0	

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Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/4/14 01:55
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412173-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	414548
Data File Name:	I:\ACQUDATA\msvoa10\data\100314\A2604.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	10/4/14 01:55	
Toluene-d8	103	87-121	10/4/14 01:55	
Dibromofluoromethane	103	89-119	10/4/14 01:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 15:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY237.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	10	U	10	
95-50-1	1,2-Dichlorobenzene	10	U	10	
541-73-1	1,3-Dichlorobenzene	10	U	10	
106-46-7	1,4-Dichlorobenzene	10	U	10	
95-95-4	2,4,5-Trichlorophenol	10	U	10	
88-06-2	2,4,6-Trichlorophenol	10	U	10	
120-83-2	2,4-Dichlorophenol	10	U	10	
105-67-9	2,4-Dimethylphenol	10	U	10	
51-28-5	2,4-Dinitrophenol	50	U	50	
121-14-2	2,4-Dinitrotoluene	10	U	10	
606-20-2	2,6-Dinitrotoluene	10	U	10	
91-58-7	2-Chloronaphthalene	10	U	10	
95-57-8	2-Chlorophenol	10	U	10	
91-57-6	2-Methylnaphthalene	10	U	10	
95-48-7	2-Methylphenol	10	U	10	
88-74-4	2-Nitroaniline	50	U	50	
88-75-5	2-Nitrophenol	10	U	10	
91-94-1	3,3'-Dichlorobenzidine	10	U	10	
	3- and 4-Methylphenol Coelution	10	U	10	
99-09-2	3-Nitroaniline	50	U	50	
534-52-1	4,6-Dinitro-2-methylphenol	50	U	50	
101-55-3	4-Bromophenyl Phenyl Ether	10	U	10	
59-50-7	4-Chloro-3-methylphenol	10	U	10	
106-47-8	4-Chloroaniline	10	U	10	
7005-72-3	4-Chlorophenyl Phenyl Ether	10	U	10	
100-01-6	4-Nitroaniline	50	U	50	
100-02-7	4-Nitrophenol	50	U	50	
83-32-9	Acenaphthene	10	U	10	
208-96-8	Acenaphthylene	10	U	10	
120-12-7	Anthracene	10	U	10	
56-55-3	Benz(a)anthracene	10	U	10	
50-32-8	Benzo(a)pyrene	10	U	10	
205-99-2	Benzo(b)fluoranthene	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 15:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY237.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	10	U	10	
207-08-9	Benzo(k)fluoranthene	10	U	10	
100-51-6	Benzyl Alcohol	10	U	10	
108-60-1	2,2'-Oxybis(1-chloropropane)	10	U	10	
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	
111-44-4	Bis(2-chloroethyl) Ether	10	U	10	
117-81-7	Bis(2-ethylhexyl) Phthalate	10	U	10	
85-68-7	Butyl Benzyl Phthalate	10	U	10	
86-74-8	Carbazole	10	U	10	
218-01-9	Chrysene	10	U	10	
84-74-2	Di-n-butyl Phthalate	10	U	10	
117-84-0	Di-n-octyl Phthalate	10	U	10	
53-70-3	Dibenz(a,h)anthracene	10	U	10	
132-64-9	Dibenzofuran	10	U	10	
84-66-2	Diethyl Phthalate	10	U	10	
131-11-3	Dimethyl Phthalate	10	U	10	
206-44-0	Fluoranthene	10	U	10	
86-73-7	Fluorene	10	U	10	
118-74-1	Hexachlorobenzene	10	U	10	
87-68-3	Hexachlorobutadiene	10	U	10	
77-47-4	Hexachlorocyclopentadiene	10	U	10	
67-72-1	Hexachloroethane	10	U	10	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	
78-59-1	Isophorone	10	U	10	
621-64-7	N-Nitrosodi-n-propylamine	10	U	10	
62-75-9	N-Nitrosodimethylamine	10	U	10	
86-30-6	N-Nitrosodiphenylamine	10	U	10	
91-20-3	Naphthalene	10	U	10	
98-95-3	Nitrobenzene	10	U	10	
87-86-5	Pentachlorophenol (PCP)	50	U	50	
85-01-8	Phenanthrene	10	U	10	
108-95-2	Phenol	10	U	10	
129-00-0	Pyrene	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	9/30/14 15:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414127
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973D\Data\093014\AY237.D\	**Instrument Name:**	R-MS-54
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	99	28-157	9/30/14 15:53	
2-Fluorobiphenyl	72	39-119	9/30/14 15:53	
2-Fluorophenol	52	10-105	9/30/14 15:53	
Nitrobenzene-d5	76	37-117	9/30/14 15:53	
Phenol-d6	35	10-107	9/30/14 15:53	
p-Terphenyl-d14	115	40-133	9/30/14 15:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:13
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY176.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
120-82-1	1,2,4-Trichlorobenzene	10	U	10	
95-50-1	1,2-Dichlorobenzene	10	U	10	
541-73-1	1,3-Dichlorobenzene	10	U	10	
106-46-7	1,4-Dichlorobenzene	10	U	10	
95-95-4	2,4,5-Trichlorophenol	10	U	10	
88-06-2	2,4,6-Trichlorophenol	10	U	10	
120-83-2	2,4-Dichlorophenol	10	U	10	
105-67-9	2,4-Dimethylphenol	10	U	10	
51-28-5	2,4-Dinitrophenol	50	U	50	
121-14-2	2,4-Dinitrotoluene	10	U	10	
606-20-2	2,6-Dinitrotoluene	10	U	10	
91-58-7	2-Chloronaphthalene	10	U	10	
95-57-8	2-Chlorophenol	10	U	10	
91-57-6	2-Methylnaphthalene	10	U	10	
95-48-7	2-Methylphenol	10	U	10	
88-74-4	2-Nitroaniline	50	U	50	
88-75-5	2-Nitrophenol	10	U	10	
91-94-1	3,3'-Dichlorobenzidine	10	U	10	
	3- and 4-Methylphenol Coelution	10	U	10	
99-09-2	3-Nitroaniline	50	U	50	
534-52-1	4,6-Dinitro-2-methylphenol	50	U	50	
101-55-3	4-Bromophenyl Phenyl Ether	10	U	10	
59-50-7	4-Chloro-3-methylphenol	10	U	10	
106-47-8	4-Chloroaniline	10	U	10	
7005-72-3	4-Chlorophenyl Phenyl Ether	10	U	10	
100-01-6	4-Nitroaniline	50	U	50	
100-02-7	4-Nitrophenol	50	U	50	
83-32-9	Acenaphthene	10	U	10	
208-96-8	Acenaphthylene	10	U	10	
120-12-7	Anthracene	10	U	10	
56-55-3	Benz(a)anthracene	10	U	10	
50-32-8	Benzo(a)pyrene	10	U	10	
205-99-2	Benzo(b)fluoranthene	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:13
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY176.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
191-24-2	Benzo(g,h,i)perylene	10	U	10	
207-08-9	Benzo(k)fluoranthene	10	U	10	
100-51-6	Benzyl Alcohol	10	U	10	
108-60-1	2,2'-Oxybis(1-chloropropane)	10	U	10	
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	
111-44-4	Bis(2-chloroethyl) Ether	10	U	10	
117-81-7	Bis(2-ethylhexyl) Phthalate	10	U	10	
85-68-7	Butyl Benzyl Phthalate	10	U	10	
86-74-8	Carbazole	10	U	10	
218-01-9	Chrysene	10	U	10	
84-74-2	Di-n-butyl Phthalate	10	U	10	
117-84-0	Di-n-octyl Phthalate	10	U	10	
53-70-3	Dibenz(a,h)anthracene	10	U	10	
132-64-9	Dibenzofuran	10	U	10	
84-66-2	Diethyl Phthalate	10	U	10	
131-11-3	Dimethyl Phthalate	10	U	10	
206-44-0	Fluoranthene	10	U	10	
86-73-7	Fluorene	10	U	10	
118-74-1	Hexachlorobenzene	10	U	10	
87-68-3	Hexachlorobutadiene	10	U	10	
77-47-4	Hexachlorocyclopentadiene	10	U	10	
67-72-1	Hexachloroethane	10	U	10	
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	
78-59-1	Isophorone	10	U	10	
621-64-7	N-Nitrosodi-n-propylamine	10	U	10	
62-75-9	N-Nitrosodimethylamine	10	U	10	
86-30-6	N-Nitrosodiphenylamine	10	U	10	
91-20-3	Naphthalene	10	U	10	
98-95-3	Nitrobenzene	10	U	10	
87-86-5	Pentachlorophenol (PCP)	50	U	50	
85-01-8	Phenanthrene	10	U	10	
108-95-2	Phenol	10	U	10	
129-00-0	Pyrene	10	U	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Unicorn Management Consultants	**Service Request:**	R1407529
Project:	Union Rd #2011-100 9/25/14/ 2011-100	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	9/29/14
		Date Analyzed:	10/1/14 16:13
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1411577-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analytical Method:	8270D	**Analysis Lot:**	414483
Prep Method:	EPA 3510C	**Extraction Lot:**	219226
Data File Name:	I:\ACQUDATA\5973A\DATA\100114\CY176.D\	**Instrument Name:**	R-MS-51
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	98	28-157	10/1/14 16:13	
2-Fluorobiphenyl	73	39-119	10/1/14 16:13	
2-Fluorophenol	49	10-105	10/1/14 16:13	
Nitrobenzene-d5	75	37-117	10/1/14 16:13	
Phenol-d6	34	10-107	10/1/14 16:13	
p-Terphenyl-d14	99	40-133	10/1/14 16:13	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 9/29/14

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1407529-LCS Result	Spike Amount	% Rec	Duplicate Lab Control Sample R1407529-DLCS Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Oil and Grease, Nonpolar (SGT-HEM)	1664A	18.4	20.6	90	19.0	20.6	92	64 - 132	3	34

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 10/ 2/14

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1407529-LCS Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	37.3	40	93	80 - 120
Lead, Dissolved	6010C	551	500	110	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 10/ 4/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 414548

	Lab Control Sample RQ1412173-02			Duplicate Lab Control Sample RQ1412173-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Acetone	20.7	20.0	104	20.4	20.0	102	51 - 146	2	30
Benzene	19.9	20.0	100	20.8	20.0	104	76 - 118	5	30
Bromodichloromethane	22.6	20.0	113	24.0	20.0	120	79 - 122	6	30
Bromoform	25.1	20.0	126	26.5	20.0	133	65 - 138	6	30
Bromomethane	15.9	20.0	80	15.1	20.0	76	41 - 159	5	30
2-Butanone (MEK)	21.0	20.0	105	20.4	20.0	102	66 - 129	3	30
Carbon Disulfide	19.3	20.0	96	17.2	20.0	86	63 - 141	12	30
Carbon Tetrachloride	20.0	20.0	100	22.0	20.0	110	66 - 128	10	30
Chlorobenzene	20.0	20.0	100	20.9	20.0	104	80 - 121	4	30
Chloroethane	18.8	20.0	94	21.0	20.0	105	71 - 128	11	30
Chloroform	19.8	20.0	99	20.5	20.0	102	76 - 120	3	30
Chloromethane	18.2	20.0	91	18.3	20.0	91	64 - 140	<1	30
Dibromochloromethane	23.4	20.0	117	24.4	20.0	122	79 - 125	4	30
1,1-Dichloroethane	18.6	20.0	93	19.4	20.0	97	76 - 128	5	30
1,2-Dichloroethane	22.7	20.0	114	23.9	20.0	120	72 - 130	5	30
1,1-Dichloroethene	21.2	20.0	106	21.7	20.0	109	74 - 135	3	30
cis-1,2-Dichloroethene	19.2	20.0	96	19.7	20.0	99	80 - 121	3	30
trans-1,2-Dichloroethene	18.7	20.0	93	19.5	20.0	98	78 - 124	4	30
1,2-Dichloropropane	21.4	20.0	107	21.6	20.0	108	80 - 119	1	30
cis-1,3-Dichloropropene	23.0	20.0	115	23.9	20.0	120	77 - 125	4	30
trans-1,3-Dichloropropene	24.4	20.0	122	25.3	20.0	127 *	72 - 123	4	30
Ethylbenzene	18.4	20.0	92	18.9	20.0	94	76 - 120	2	30
2-Hexanone	23.5	20.0	117	23.3	20.0	116	61 - 131	<1	30
Methylene Chloride	20.2	20.0	101	20.9	20.0	104	73 - 122	3	30
4-Methyl-2-pentanone (MIBK)	24.0	20.0	120	23.7	20.0	118	68 - 129	1	30
Styrene	21.6	20.0	108	22.2	20.0	111	81 - 122	3	30
1,1,2,2-Tetrachloroethane	18.8	20.0	94	19.1	20.0	95	74 - 127	1	30
Tetrachloroethene	21.1	20.0	105	21.2	20.0	106	69 - 124	<1	30
Toluene	20.3	20.0	101	20.9	20.0	104	77 - 120	3	30
1,1,1-Trichloroethane	20.2	20.0	101	20.4	20.0	102	71 - 123	1	30
1,1,2-Trichloroethane	22.1	20.0	110	24.3	20.0	122 *	79 - 117	10	30
Trichloroethene	23.1	20.0	116	23.8	20.0	119	76 - 123	3	30
Vinyl Chloride	17.1	20.0	85	17.5	20.0	87	69 - 136	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 10/ 4/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 414548

Analyte Name	Lab Control Sample RQ1412173-02 Result	Spike Amount	% Rec	Duplicate Lab Control Sample RQ1412173-03 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
o-Xylene	20.5	20.0	103	21.5	20.0	107	77 - 131	4	30
m,p-Xylenes	41.1	40.0	103	41.0	40.0	103	78 - 123	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 9/30/14

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 219226

	Lab Control Sample RQ1411577-02			Duplicate Lab Control Sample RQ1411577-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	61.1	100	61	67.8	100	68	10 - 127	11	30
1,2-Dichlorobenzene	56.4	100	56	63.8	100	64	23 - 130	13	30
1,3-Dichlorobenzene	57.1	100	57	61.4	100	61	21 - 90	7	30
1,4-Dichlorobenzene	56.8	100	57	63.2	100	63	10 - 124	10	30
2,4,5-Trichlorophenol	97.8	100	98	110	100	110	62 - 117	12	30
2,4,6-Trichlorophenol	94.1	100	94	99.1	100	99	62 - 115	5	30
2,4-Dichlorophenol	89.7	100	90	96.6	100	97	62 - 109	7	30
2,4-Dimethylphenol	87.8	100	88	90.7	100	91	28 - 100	3	30
2,4-Dinitrophenol	82.6	100	83	97.7	100	98	40 - 156	17	30
2,4-Dinitrotoluene	102	100	102	106	100	106	69 - 122	4	30
2,6-Dinitrotoluene	100	100	100	109	100	109	48 - 125	9	30
2-Chloronaphthalene	78.9	100	79	87.9	100	88	47 - 98	11	30
2-Chlorophenol	78.1	100	78	85.1	100	85	42 - 112	9	30
2-Methylnaphthalene	66.8	100	67	76.1	100	76	34 - 102	13	30
2-Methylphenol	75.5	100	76	80.2	100	80	51 - 95	5	30
2-Nitroaniline	101	100	101	103	100	103	60 - 119	2	30
2-Nitrophenol	87.6	100	88	96.5	100	96	60 - 113	9	30
3,3'-Dichlorobenzidine	81.3	100	81	88.4	100	88	44 - 114	8	30
3- and 4-Methylphenol Coelution	147	200	74	159	200	79	49 - 89	7	30
3-Nitroaniline	82.8	100	83	82.8	100	83	49 - 110	<1	30
4,6-Dinitro-2-methylphenol	95.6	100	96	102	100	102	65 - 141	6	30
4-Bromophenyl Phenyl Ether	94.5	100	95	98.0	100	98	63 - 124	3	30
4-Chloro-3-methylphenol	95.2	100	95	101	100	101	42 - 124	6	30
4-Chloroaniline	82.9	100	83	84.0	100	84	40 - 111	1	30
4-Chlorophenyl Phenyl Ether	89.3	100	89	99.5	100	99	59 - 112	11	30
4-Nitroaniline	88.7	100	89	90.6	100	91	61 - 122	2	30
4-Nitrophenol	45.1	100	45	51.3	100	51	10 - 126	12	30
Acenaphthene	85.1	100	85	88.8	100	89	54 - 125	5	30
Acenaphthylene	88.9	100	89	93.9	100	94	69 - 111	5	30
Anthracene	94.1	100	94	99.0	100	99	55 - 116	5	30
Benz(a)anthracene	91.6	100	92	98.3	100	98	66 - 110	6	30
Benzo(a)pyrene	93.8	100	94	101	100	101	44 - 114	7	30
Benzo(b)fluoranthene	93.2	100	93	97.8	100	98	64 - 122	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Unicorn Management Consultants
Project: Union Rd #2011-100 9/25/14/ 2011-100
Sample Matrix: Water

Service Request: R1407529
Date Analyzed: 9/30/14

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270D
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 219226

Analyte Name	Lab Control Sample RQ1411577-02 Result	Spike Amount	% Rec	Duplicate Lab Control Sample RQ1411577-03 Result	Spike Amount	% Rec		% Rec Limits	RPD	RPD Limit
Benzo(g,h,i)perylene	92.5	100	92	98.2	100	98		60 - 127	6	30
Benzo(k)fluoranthene	87.8	100	88	89.3	100	89		49 - 133	1	30
Benzyl Alcohol	78.9	100	79	87.4	100	87		31 - 109	10	30
2,2'-Oxybis(1-chloropropane)	101	100	101	108	100	108		44 - 112	7	30
Bis(2-chloroethoxy)methane	90.8	100	91	97.0	100	97		53 - 142	6	30
Bis(2-chloroethyl) Ether	81.5	100	81	86.9	100	87		56 - 106	7	30
Bis(2-ethylhexyl) Phthalate	113	100	113	124	100	124		62 - 124	9	30
Butyl Benzyl Phthalate	99.9	100	100	108	100	108		41 - 148	8	30
Carbazole	98.7	100	99	99.5	100	99		66 - 117	<1	30
Chrysene	88.0	100	88	96.7	100	97		57 - 118	10	30
Di-n-butyl Phthalate	110	100	110	114	100	114		57 - 139	4	30
Di-n-octyl Phthalate	118	100	118	126	100	126	*	77 - 120	7	30
Dibenz(a,h)anthracene	98.5	100	98	104	100	104		58 - 132	6	30
Dibenzofuran	83.0	100	83	87.1	100	87		58 - 105	5	30
Diethyl Phthalate	97.1	100	97	106	100	106		65 - 122	9	30
Dimethyl Phthalate	92.3	100	92	96.1	100	96		69 - 115	4	30
Fluoranthene	101	100	101	105	100	105		62 - 123	4	30
Fluorene	85.5	100	86	92.6	100	93		60 - 112	8	30
Hexachlorobenzene	95.9	100	96	96.7	100	97		76 - 119	1	30
Hexachlorobutadiene	59.3	100	59	62.8	100	63		16 - 95	7	30
Hexachlorocyclopentadiene	48.1	100	48	55.2	100	55		10 - 99	14	30
Hexachloroethane	54.4	100	54	59.3	100	59		15 - 92	9	30
Indeno(1,2,3-cd)pyrene	97.0	100	97	101	100	101		64 - 126	4	30
Isophorone	93.4	100	93	102	100	102		61 - 128	9	30
N-Nitrosodi-n-propylamine	91.4	100	91	95.9	100	96		51 - 119	5	30
N-Nitrosodimethylamine	58.6	100	59	65.6	100	66		37 - 67	11	30
N-Nitrosodiphenylamine	99.5	100	100	102	100	102		45 - 123	2	30
Naphthalene	65.2	100	65	74.4	100	74		36 - 95	13	30
Nitrobenzene	82.0	100	82	90.2	100	90		51 - 113	9	30
Pentachlorophenol (PCP)	74.1	100	74	77.7	100	78		56 - 146	5	30
Phenanthrene	95.5	100	96	102	100	102		58 - 118	6	30
Phenol	38.7	100	39	44.4	100	44		10 - 113	12	30
Pyrene	101	100	101	108	100	108		67 - 118	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

18560

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
Project Manager: Mike Persico	Report CC: Ftrejo@unicornmgt.com
Company/Address: Unicorn Management Consultants 52 Federal Road, Suite 2C Danbury, CT 06810	
Phone #: (203)205-9000	Email: mPersico@unicornmgt.com
Sampler's Signature: Gary Bohan	Sampler's Printed Name: Gary Bohan

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1 0 0 3 2

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below) As, Pb	1664A/O&GSGT	6010C/AST, PbT	REMARKS/ ALTERNATE DESCRIPTION
MW-14S-2014	-002	9/25/14	0830	GW	7	X	X				X	X	X		
MW-13M-2014	-003,004	9/25/14	0850	GW	7	X	X				X	X	X		
MW-13S-2014	005,006	9/25/14	0910	GW	7	X	X				X	X	X		
MW-12S-2014	007,008	9/25/14	0930	GW	7	X	X				X	X	X		
MW-12M-2014	-009,010	9/25/14	0945	GW	7	X	X				X	X	X		
MW-12D-2014	-011 012	9/25/14	1000	GW	7	X	X				X	X	X		
MW-11S-2014	013,014	9/25/14	1020	GW	7	X	X				X	X	X		
MW-11M-2014	015,016	9/25/14	1030	GW	7	X	X				X	X	X		
MW-10S-2014	017,018	9/25/14	1050	GW	7	X	X				X	X	X		
MW-10M-2014	019,020	9/25/14	1110	GW	7	X	X				X	X	X		
MW-10D-2014	021,022	9/25/14	1125	GW	7	X	X				X	X	X		

SPECIAL INSTRUCTIONS/COMMENTS
Metals Dissolved Metals - Arsenic, Lead
Total Metals - Arsenic, Lead

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED NY

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
Standard
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata X Yes _____ No

INVOICE INFORMATION
PO # 2011-100
BILL TO: imiller@unicornmgt.com
Isabel Miller
R1407529

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Gary Bohan	Signature:	Signature	Signature	Signature	
Printed Name: Gary Bohan	Printed Name:	Printed Name	Printed Name	Printed Name	
Firm: UMC	Firm: ALS	Firm	Firm	Firm	
Date/Time: 9/25/14 1350	Date/Time: 9/25/14 1350	Date/Time	Date/Time	Date/Time	

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Unicorn Management Consultants
Union Rd #2011-100 9/25/14

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preserva

R1407529 5
Unicorn Management Consultants
Union Rd #2011-100 9/26/14

Project/Client Unicorn Folder Numb

Cooler received on 9/25/14 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 9/25/14 Time: 1440 ID: (IR#3) IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	5.0°	3.1°	2.7°				
Correction Factor (°C)	-0.2°	-0.2°	-0.2°				
Corrected Temp (°C)	4.8°	2.9°	2.5°				
Within 0-6°C?	(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-002 by dlw on 9/25/14 at 1440
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: KB 9/25/14

Cooler Breakdown: Date: 9/26/14 Time: 1225 by: [illegible]

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4			WC1261010	4/15				
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	1113070	8/15				

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

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 4-086-003, 070714-2AHO, 011314-1BLT
Other Comments:

R1407529 5
Unicorn Management Consultants
Union Rd #2011-100 9/26/14

PC Secondary Review: KB 10/13/14

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