GROUNDWATER SAMPLING, NAPL MONITORING/RECOVERY, AND GROUNDWATER TREATMENT PERFORMANCE REPORT FOR THE SECOND QUARTER OF 2011 (APRIL-JUNE)

HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY
NASSAU COUNTY, NEW YORK

Prepared for:

National Grid
175 East Old Country Rd.
Hicksville, NY 11801

Prepared by:

URS Corporation
77 Goodell Street
Buffalo, New York 14203

August 2011

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ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
BTEX	benzene, toluene, ethylbenzene, xylenes
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DUSR	data usability summary report
ft	foot (feet)
HIMW	Hempstead Intersection Street Monitoring Well
IPR	Intersection Street Product Recovery
LNAPL	light non-aqueous phase liquid
MGP	manufactured gas plant
MP	monitoring points
NAPL	non-aqueous phase liquid
ND	not detected
NI	not included
NM	not measured
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PAHs	polycyclic aromatic hydrocarbons
PZ	piezometer
QC	quality control
RI	remedial investigation
Sh	sheen
TOR	top of riser
URS	URS Corporation
USEPA	United States Environmental Protection Agency
µg/L	micrograms per liter

EXECUTIVE SUMMARY

This report provides a summary of field activities, analytical results, and data interpretations associated with groundwater sampling and recovery of non-aqueous phase liquid (NAPL) at the Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site during the second quarter (April, May, and June) of 2011.

Groundwater monitoring and sampling was conducted on May 23 through June 3, 2011. This included measuring the depth to groundwater and NAPL thickness in 82 wells. Groundwater samples were collected from 25 wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs).

NAPL monitoring and recovery was conducted on April 15, May 2-3, May 20, June 7-8, and June 23 for a total of 5 events in the second quarter of 2011.

Dissolved oxygen measurements were taken during the second quarter of 2011 for System No. 1 on May 20, May 27, and June 23 a total of 3 events and were taken for System No. 2 on April 12, April 28, May 13, May 26, June 10, and June 24 for a total of 6 events.

The following results were obtained from the groundwater sampling and NAPL monitoring/recovery events:

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient that ranged from approximately 0.002-0.003 feet per feet (ft/ft).
- The dissolved-phase plume extended up to approximately 3,600 ft south of the site boundary.
- Dense non-aqueous phase liquid (DNAPL) was detected in 25 wells during the second quarter of 2011. The wells were located on site or within a parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells varied from approximately 10 to 15 gallons per event. Approximately 65 gallons of NAPL were recovered during the

second quarter of 2011. Approximately 722 gallons of NAPL have been recovered since April 2007.

- Based on a comparison between the second quarter 2011 data and the previous data, the concentrations of total BTEX and total PAHs remained stable in the site monitoring wells.
- The first of two oxygen injection systems was brought on line in October 2010 and has successfully promoted increased aerobic conditions in the aquifer near the system during the second quarter of 2011.
- The second of two oxygen injection systems was brought on line in April 2011 and has successfully promoted increased aerobic conditions in the aquifer near the system during the second quarter of 2011.

1.0 INTRODUCTION

This groundwater sampling and NAPL monitoring/ recovery report describes field activities and presents field measurements, NAPL thickness measurements and recovery volumes, and groundwater sampling analytical data associated with the Hempstead Intersection Street Former MGP site (refer to Figures 1 and 2). Interpretations of the data are also provided.

URS Corporation (URS) performed the following activities during the second quarter of 2011:

- Measured the depth to groundwater and NAPL thickness in accessible on site and off site monitoring wells (May 20, 2011).
- Collected groundwater samples from 25 monitoring wells for laboratory analysis (May 23- June 3, 2011).
- Recovered NAPL from accessible monitoring wells and piezometers (April 15, May 2-3, May 20, June 7-8, and June 23, 2011).

Fenely & Nicol Environmental, Inc. (F&N) performed water level measurement, well headspace monitoring with a photoionization detector (PID), and dissolved oxygen measurements to monitor the performance of the groundwater treatment systems for System No. 1 and System No. 2. System No. 1 monitoring was begun after system start up on April 27 and conducted on May 20, May 27, and June 23. System No. 2 monitoring was conducted on April 12, April 28, May 13, May 26, June 10, and June 24.

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. Separate reports were issued for quarterly activities performed in 2007, 2008, 2009, and 2010, and annual reports were produced that encompassed work conducted in the four quarters of 2008, 2009, and 2010, with the annual report for 2007 summarizing the last three quarters.

2.0 FIELD ACTIVITIES

The field activities performed by URS are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 82 monitoring wells.
- Collection of groundwater samples from 25 monitoring wells.
- Recovery of NAPL from accessible monitoring wells that contained measurable NAPL.

Monitoring wells and piezometers used for these activities are listed in Table 1.

F&N performed water level measurement, well headspace monitoring with a photo-ionization detector (PID), and dissolved oxygen measurements to monitor the performance of the groundwater treatment Systems No. 1 and No. 2.

2.1 Groundwater Depth and NAPL Thickness Measurements

Depths to groundwater and NAPL thickness measurements are listed in Table 2. An electronic water level indicator was used to measure the depth to groundwater. NAPL thickness was measured using a weighted cotton string that absorbs oil.

2.2 NAPL Recovery

NAPL was recovered from 25 wells during five events from April to July 2011 (Table 3). All measured NAPL consisted of dense non-aqueous phase liquid (DNAPL) located at the bottom of the wells. Recovery of NAPL was conducted using the appropriate personal protective equipment. First, all accessible wells included in the recovery program were gauged using an oil/water interface probe to determine the depth to water and the depth and thickness to any possible light non-aqueous phase liquid (LNAPL) at the top of the water column. Wells were then gauged with a weighted cotton string to measure the DNAPL thickness. The DNAPL was recovered using either a Waterra inertial lift pump, or a dedicated bailer if the DNAPL was particularly viscous. Water and product that were recovered were stored in 55-gallon steel drums for subsequent offsite disposal.

The quantity of the recovered DNAPL was estimated as the volume of NAPL contained inside the well prior to pumping, based on the cross sectional area of the well screen multiplied by the measured NAPL thickness.

2.3 Groundwater Sampling

Low-flow groundwater sampling methods were used, which consisted of purging groundwater at a rate of between 100 and 250 milliliters per minute. The water was pumped through a flow-through cell and monitored for pH, conductivity, turbidity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP). Purging was continued until stable conditions were achieved (defined as three consecutive stable readings [i.e. $\pm$ 10 percent] over a 15 minute period). Groundwater samples were collected afterwards and shipped under chain-of-custody procedures to H2M laboratories, Inc. for analysis of BTEX (United States Environmental Protection Agency [USEPA] Method 8260B) and PAHs (USEPA Method 8270C). Purge water is stored in an onsite storage tank for subsequent offsite disposal under a non-hazardous waste manifest.

2.4 Groundwater Treatment System Operation

National Grid completed the construction of the second of two oxygen injection systems in May 2011 to treat groundwater in the downgradient plume. The first system to be completed, designated “System No. 2”, extends from Mirschel Park in the east to Kensington Court in the west. The second system to be completed, designated “System No. 1”, is located along Smith Street, a portion of the Long Island Railroad Right of Way, and a portion of Hilton Avenue. See Figure 3 for the locations of the two systems. The performance of System No. 1 and System No. 2 was monitored through measurement of oxygen levels in the groundwater approximately twice per month, see Table 5. The full system data is included in Appendix C and shows the systems are effective in increasing the dissolved oxygen levels to augment biodegradation of dissolved phase MGP compounds in groundwater.

3.0 RESULTS

3.1 Dissolved-Phase Plume

The extent of the dissolved-phase groundwater plume boundary is shown in Figure 4. The downgradient boundary of the plume, which is defined by total BTEX or PAH concentrations greater than 100 μg/L, extends approximately 3,600 feet south of the site boundary. Based on comparison with previous quarterly groundwater monitoring data, the concentrations of total BTEX or PAHs in groundwater have remained stable.

In May 2011, the concentrations of total BTEX and total PAHs in the furthest downgradient well pair (HIMW-15I/D) ranged from "not detected" (deep well, HIMW-15D) to 31 μg/L of total BTEX (intermediate well, HIMW-15I). The concentrations of total BTEX and total PAHs in wells located between the site and the HIMW-15 cluster varied from "not detected" to 2,120 μg/L of total PAHs (intermediate well, HIMW-5I), see Table 4.

3.2 Potentiometric Heads and NAPL Thickness

Potentiometric heads and NAPL thickness measurements are presented in Table 2. Potentiometric surface maps for shallow, intermediate and deep groundwater zones were developed using this data and are shown in Figures 5, 6, and 7, respectively. The data indicates that the direction of groundwater flow within the well field was south at an average gradient that ranged from approximately 0.002-0.003 ft/ft.

DNAPL was detected in 25 wells during the second quarter 2011 (Table 3). Figure 8 illustrate the thickness of DNAPL that was measured on May 20, 2011. Figures 9A through 9AK provide cumulative NAPL recovery amounts and NAPL thickness plots for the period of December 2003 through June 2011. All of the wells where DNAPL was identified are either on the site or within a parking lot that is immediately south of the site.

3.3 Groundwater Analytical Results

Groundwater analytical results are summarized in Table 4 and illustrated on Figures 4 & 8.

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B – Guidance for the Development of Data Usability Summary Reports, May 2010. An electronic copy of the DUSR is included as Appendix A. The review included a review of holding times; completeness of all required deliverables; quality control (QC) results (blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers. All sample analyses were found to be compliant with the method and validation criteria and the data is useable as reported.

3.4 NAPL Recovery Volumes

Approximately 65 gallons of NAPL were recovered from 25 wells (Table 3). The volume of NAPL recovered during each event varied from approximately 10 to 15 gallons per event. Approximately 722 gallons of NAPL have been recovered since April 2007.

3.5 Groundwater Treatment System Performance

The groundwater treatment System No. 2 started operation on October 11, 2010. Bimonthly monitoring includes measurement of water depth, dissolved oxygen concentration, and headspace vapors by photoionization detector monitoring. A summary of the data collected from the monitoring points is presented on Table 5.

By delivering approximately 90% oxygen gas into the aquifer, maximum dissolved oxygen concentrations in the range of 40 - 50 mg/L can be achieved at saturation. Concentrations in this range were observed in the wells located more towards the center of the System No. 2 line of oxygen delivery wells (monitoring points MP-2-3S and MP-2-3D), with lower concentrations observed at either end of the system. Oxygen concentrations in June were lower than those observed in April and May with an increase in head space concentration based on PID readings, particularly at the ends of the delivery lines.

The performance of System No. 2 has been effective in raising the oxygen level sufficiently to support aerobic bacterial growth and attendant hydrocarbon degradation. Throughout all monitoring points, the dissolved oxygen level is above 5.2 mg/L, providing an aerobic environment. Measurement of dissolved oxygen levels below the saturated range of 40 - 50 mg/L at locations such as MP-2-2 and MP-2-4 suggests that bacterial activity is especially active in these locations; consumption of the oxygen in these locations would correspond to degradation of hydrocarbons, presumed to be the primary carbon source for the bacteria.

The groundwater treatment System No. 1 started operation on April 27, 2011. Bimonthly monitoring includes measurement of water depth, dissolved oxygen concentration, and headspace vapors by photoionization detector monitoring. A summary of the data collected from the monitoring points is presented on Table 5.

Oxygen concentrations were generally lower in System #1 compared to System #2. This reflects the higher concentrations of groundwater contamination in this location nearer to the source, which would result in a faster consumption of oxygen during degradation. However, oxygen concentration up the 40 – 50 mg/L range were noticed at startup in the wells located most towards the eastern side of the System No. 1 line of injection wells (monitoring points MP-1-2D and MP-1-4D), and in MP-1-3D in June.

The performance of System No. 1 has been effective in raising the oxygen level sufficiently to support aerobic bacterial growth and attendant hydrocarbon degradation. With the exception of MP-1-7 (and to a lesser extent MP-1-8 at the start of treatment), the dissolved oxygen level is above 5 mg/L, providing an aerobic environment. Measurement of dissolved oxygen levels below the saturated range of 40 - 50 mg/L at most System No. 1 monitoring points suggests that bacterial activity is especially active; faster consumption of the oxygen corresponds to faster degradation of hydrocarbons, presumed to be primary carbon source for the bacteria.

4.0 SUMMARY

Following is a summary of the second quarter 2011 groundwater sampling and NAPL monitoring/recovery data presented in this report:

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient of 0.002-0.003 ft/ft.
- The dissolved-phase plume extended up to approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 25 wells during the second quarter of 2011. The wells were located on site or within a parking lot immediately south of the site.
- The total volume of NAPL recovered from all the site wells each event varied from approximately 6 to 15 gallons. Approximately 65 gallons of NAPL were recovered during the second quarter of 2011. Approximately 722 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the second quarter 2011 data and the previous data, the concentrations of total BTEX and total PAHs remained stable in the site monitoring wells.
- The first of two oxygen injection systems was brought on line in October 2010 and has successfully promoted increased aerobic conditions in the aquifer near the system.
- The second of two oxygen injection systems was brought on line in April 2011 and has successfully promoted increased aerobic conditions in the aquifer near the system during the second quarter of 2011.

REFERENCES

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URS, 2008a. *2007 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* February.

URS, 2008b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2008 (January – March 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* June.

URS, 2008c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2008 (April - June 2008) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* October.

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URS, 2009e. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2009 (July - September 2009) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* November.

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URS, 2010b. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2010 (January - March 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* April.

URS, 2010c. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Second Quarter of 2010 (April - June 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* September.

URS, 2010d. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the Third Quarter of 2010 (July - September 2010) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.

URS, 2010e. *2010 Annual Groundwater Sampling and NAPL Monitoring/Recovery Report for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* December.

URS, 2011a. *Groundwater Sampling and NAPL Monitoring/Recovery Report for the First Quarter of 2011 (January - March 2011) for the Hempstead Intersection Street Former Manufactured Gas Plant Site.* July.

TABLES

Table 1

Summary of Field Activities for the Second Quarter 2011 [(1), (2)]
Hempstead Intersection Street Former MGP Site

Well ID	Quarterly Monitoring & Sampling Event (May 23- June 3, 2011)			NAPL Monitoring and DNAPL Recovery Events				
	Water Level	NAPL Thickness	Water Quality	Apr 15, 2011	May 2-3, 2011	May 20, 2011	June 7-8, 2011	June 23, 2011
HIMW-001S	X	X			X	X	X	
HIMW-001I	X	X		X	X	X	X	
HIMW-001D*								
HIMW-002S	X	X						
HIMW-002I	X	X						
HIMW-002D	X	X						
HIMW-003S	X	X	X					
HIMW-003I	X	X	X					
HIMW-003D	X	X	X					
HIMW-004S	X	X						
HIMW-004I	X	X						
HIMW-004D	X	X						
HIMW-005S	X	X	X					
HIMW-005I	X	X	X					
HIMW-005D	X	X	X					
HIMW-006S	X	X		X	X	X	X	X
HIMW-006I	X	X			X	X	X	
HIMW-006D	X	X					X	
HIMW-007S	X	X		X	X	X	X	X
HIMW-007I	X	X			X		X	
HIMW-007D	X	X			X		X	
HIMW-008S	X	X	X					
HIMW-008I	X	X	X					
HIMW-008D	X	X	X					
HIMW-009S	X	X						
HIMW-009I	X	X						
HIMW-009D	X	X						
HIMW-010S	X	X						
HIMW-010I	X	X						
HIMW-010D	X	X						
HIMW-011S	X	X					X	
HIMW-011I	X	X			X			
HIMW-011D	X	X						
HIMW-012S	X	X	X					
HIMW-012I	X	X	X					
HIMW-012D	X	X	X					
HIMW-013S	X	X	X					
HIMW-013I	X	X	X					
HIMW-013D	X	X	X					
HIMW-014I	X	X	X					
HIMW-014D	X	X	X					
HIMW-015I	X	X	X					
HIMW-015D	X	X	X					
HIMW-016S					X			
HIMW-016I					X			
HIMW-017S				X	X		X	X
HIMW-018S	X	X			X		X	
HIMW-018I	X	X			X		X	
HIMW-019S	X	X			X		X	
HIMW-019I	X	X			X		X	
HIMW-20S	X	X	X					
HIMW-20I	X	X	X					

Table 1

Summary of Field Activities for the Second Quarter 2011 [(1), (2)]
Hempstead Intersection Street Former MGP Site

Well ID	Quarterly Monitoring & Sampling Event (May 23- June 3, 2011)			NAPL Monitoring and DNAPL Recovery Events				
	Water Level	NAPL Thickness	Water Quality	Apr 15, 2011	May 2-3, 2011	May 20, 2011	June 7-8, 2011	June 23, 2011
HIMW-21							X	X
HIMW-22	X	X	X					
HIMW-23	X	X	X					
HIMW-24	X	X	X					
HIMW-25	X	X	X					
PZ-02								
PZ-03								
PZ-08	X	X		X	X	X	X	X
IPR-01	X	X			X		X	
IPR-02	X	X		X	X	X	X	X
IPR-03	X	X			X		X	
IPR-04	X	X			X		X	
IPR-05	X	X						
IPR-06	X	X		X	X	X	X	X
IPR-07	X	X			X		X	
IPR-08	X	X			X		X	
IPR-09	X	X		X	X		X	
IPR-10	X	X			X		X	
IPR-11	X	X			X		X	
IPR-12A	X	X			X		X	
IPR-12B	X	X			X		X	
IPR-13	X	X			X		X	
IPR-14	X	X			X		X	
IPR-15	X	X			X		X	
IPR-16	X	X		X	X		X	X
IPR-17	X	X		X	X	X	X	X
IPR-18	X	X			X		X	
IPR-19S*								
IPR-19D	X	X			X		X	
IPR-20				X	X		X	
IPR-21	X	X		X	X	X	X	X
IPR-22	X	X			X	X	X	X
IPR-23	X	X			X		X	
IPR-24	X	X			X		X	
IPR-25	X	X		X		X	X	X
IPR-26				X	X			
IPR-27	X	X		X	X	X	X	X
IPR-28	X	X			X	X		X
IPR-29	X	X		X	X	X	X	X
IPR-30				X	X		X	
OSMW-01	X	X						
OSMW-02	X	X					X	
OSMW-03	X	X					X	

Notes:

1 Field marked with "X" indicates that the activity was performed.

2 Blank field indicates that the activity was not performed.

* IPR-19S is covered with cold patch and is inaccessible. HIMW-001D riser is damaged and is unusable.

Table 2
Groundwater and NAPL Measurements
Second Quarter 2011
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-01S	5/20/2011	71.61	ND	23.41	ND	40.9	0	0.00	48.20
HIMW-01I	5/20/2011	71.68	ND	23.55	85.60	85.9	0	0.30	48.13
HIMW-01D	NM	71.95	NM	NM	NM	129.1	NM	NM	NM
HIMW-02S	5/20/2011	73.82	ND	25.41	ND	42.4	0	0.00	48.41
HIMW-02I	5/20/2011	78.87	ND	25.46	ND	92.9	0	0.00	53.41
HIMW-02D	5/20/2011	74.13	ND	25.70	ND	119.0	0	0.00	48.43
HIMW-03S	5/20/2011	65.00	ND	16.99	ND	34.8	0	0.00	48.01
HIMW-03I	5/20/2011	64.94	ND	17.22	ND	87.1	0	0.00	47.72
HIMW-03D	5/20/2011	65.26	ND	17.82	ND	145.5	0	0.00	47.44
HIMW-04S	5/20/2011	72.74	ND	24.39	ND	41.7	0	0.00	48.35
HIMW-04I	5/20/2011	72.78	ND	25.49	ND	90.6	0	0.00	47.29
HIMW-04D	5/20/2011	72.65	ND	25.91	ND	180.5	0	0.00	46.74
HIMW-05S	5/20/2011	67.19	ND	19.65	ND	39.1	0	0.00	47.54
HIMW-05I	5/20/2011	67.22	ND	19.84	ND	92.3	0	0.00	47.38
HIMW-05D	5/20/2011	67.22	ND	20.38	ND	139.0	0	0.00	46.84
HIMW-06S	5/20/2011	68.25	ND	20.41	34.90	36.9	0	2.00	47.84
HIMW-06I	5/20/2011	67.88	ND	20.61	82.20	82.2	0	blebs	47.27
HIMW-06D	5/20/2011	67.77	ND	20.52	ND	120.0	0	0.00	47.25
HIMW-07S	5/20/2011	70.47	ND	22.60	38.70	40.7	0	2.00	47.87
HIMW-07I	5/20/2011	70.10	ND	21.57	ND	90.6	0	0.00	48.53
HIMW-07D	5/20/2011	70.40	ND	22.51	ND	117.7	0	0.00	47.89
HIMW-08S	5/20/2011	65.04	ND	17.91	ND	37.1	0	0.00	47.13
HIMW-08I	5/20/2011	65.14	ND	18.10	ND	75.1	0	0.00	47.04
HIMW-08D	5/20/2011	64.93	ND	18.94	ND	114.8	0	0.00	45.99
HIMW-09S	5/20/2011	70.03	ND	22.41	ND	39.6	0	0.00	47.62
HIMW-09I	5/20/2011	69.93	ND	22.31	ND	80.5	0	0.00	47.62
HIMW-09D	5/20/2011	69.96	ND	22.41	ND	NM	0	0.00	47.55
HIMW-10S	5/20/2011	71.60	ND	23.54	ND	40.3	0	0.00	48.06
HIMW-10I	5/20/2011	71.47	ND	23.39	ND	91.8	0	0.00	48.08
HIMW-10D	5/20/2011	71.44	ND	23.35	ND	136.0	0	0.00	48.09
HIMW-11S	5/20/2011	71.62	ND	23.20	ND	41.6	0	0.00	48.42
HIMW-11I	5/20/2011	71.43	ND	23.22	ND	94.5	0	0.00	48.21
HIMW-11D	5/20/2011	71.39	ND	23.24	ND	123.6	0	0.00	48.15
HIMW-12S	5/20/2011	61.58	ND	15.64	ND	33.5	0	0.00	45.94
HIMW-12I	5/20/2011	61.59	ND	15.54	ND	75.0	0	0.00	46.05
HIMW-12D	5/20/2011	61.82	ND	17.49	ND	128.5	0	0.00	44.33
HIMW-13S	5/20/2011	72.83	ND	28.90	ND	49.2	0	0.00	43.93
HIMW-13I	5/20/2011	72.60	ND	28.70	ND	82.6	0	0.00	43.90
HIMW-13D	5/20/2011	72.53	ND	28.67	ND	122.5	0	0.00	43.86
HIMW-14I	5/20/2011	71.71	ND	27.81	ND	96.9	0	0.00	43.90
HIMW-14D	5/20/2011	71.59	ND	30.12	ND	152.0	0	0.00	41.47
HIMW-15I	5/20/2011	64.18	ND	23.39	ND	93.1	0	0.00	40.79
HIMW-15D	5/20/2011	63.96	ND	23.72	ND	155.0	0	0.00	40.24
HIMW-16S	NM	67.45	NM	NM	NM	34.4	NM	NM	NM
HIMW-16I	NM	67.50	ND	NM	NM	82.7	NM	NM	NM
HIMW-17S	NM	65.96	ND	NM	NM	36.7	NM	NM	NM
HIMW-18S	5/20/2011	69.76	ND	21.56	ND	42.1	0	0.00	48.20
HIMW-18I	5/20/2011	69.70	ND	21.66	ND	71.2	0	0.00	48.04
HIMW-19S	5/20/2011	70.95	ND	22.64	ND	39.4	0	0.00	48.31
HIMW-19I	5/20/2011	71.27	ND	22.81	ND	68.9	0	0.00	48.46
HIMW-20S	NM	70.43	NM	NM	NM	35.0	NM	NM	NM
HIMW-20I	NM	70.30	NM	NM	NM	73.0	NM	NM	NM

Table 2
Groundwater and NAPL Measurements
Second Quarter 2011
Hempstead Intersection Street Former MGP Site

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-21	NM	NM	NM	NM	NM	45.3	0	NM	NM
HIMW-22	5/20/2011		ND	17.81	ND		0	0.00	
HIMW-23	5/20/2011		ND	15.41	ND		0	0.00	
HIMW-24	5/20/2011		ND	29.00	ND		0	0.00	
HIMW-25	5/20/2011		ND	28.75	ND		0	0.00	
PZ-02	NM	72.96	NM	NM	NM	35.3	NM	NM	NM
PZ-03	NM	64.58	NM	NM	NM	29.5	NM	NM	NM
PZ-08	5/20/2011	70.51	ND	21.56	34.6	35.5	0	0.90	48.95
IPR-01	5/20/2011	70.30	ND	21.93	ND	41.9	0	0.00	48.37
IPR-02	5/20/2011	68.84	ND	20.86	69.6	70.3	0	0.70	47.98
IPR-03	5/20/2011	69.16	ND	20.97	ND	44.7	0	0.00	48.19
IPR-04	5/20/2011	69.23	ND	21.10	ND	84.4	0	0.00	48.13
IPR-05	5/20/2011	70.39	ND	22.33	ND	52.1	0	0.00	48.06
IPR-06	5/20/2011	70.79	ND	22.81	54.5	55.4	0	0.90	47.98
IPR-07	5/20/2011	69.73	ND	20.94	ND	38.0	0	0.00	48.79
IPR-08	5/20/2011	70.51	ND	22.55	ND	40.3	0	0.00	47.96
IPR-09	5/20/2011	70.00	ND	22.05	ND	45.0	0	0.00	47.95
IPR-10	5/20/2011	70.80	ND	22.70	ND	44.8	0	0.00	48.10
IPR-11	5/20/2011	68.29	ND	20.42	ND	44.6	0	0.00	47.87
IPR-12A	5/20/2011	70.14	ND	20.69	ND	38.1	0	0.00	49.45
IPR-12B	5/20/2011	69.56	ND	22.23	ND	45.2	0	0.00	47.33
IPR-13	5/20/2011	70.77	ND	22.75	ND	44.4	0	0.00	48.02
IPR-14	5/20/2011	66.93	ND	19.15	ND	44.4	0	0.00	47.78
IPR-15	5/20/2011	67.93	ND	20.10	ND	44.4	0	0.00	47.83
IPR-16	5/20/2011	69.49	ND	21.61	ND	49.1	0	0.00	47.88
IPR-17	5/20/2011	70.60	ND	22.20	53.50	54.1	0	0.60	48.40
IPR-18	5/20/2011	66.87	ND	19.22	ND	50.0	0	0.00	47.65
IPR-19S	NM	67.68	NM	NM	NM	45.1	NM	NM	NM
IPR-19D	5/20/2011	67.96	ND	20.31	ND	89.9	0	0.00	47.65
IPR-20	NM	66.70	NM	NM	NM	45.4	NM	NM	NM
IPR-21	5/20/2011	67.67	ND	19.22	44.20	45.0	0	0.80	48.45
IPR-22	5/20/2011	66.33	ND	18.90	43.90	45.4	0	1.50	47.43
IPR-23	5/20/2011	66.67	ND	19.22	ND	45.4	0	0.00	47.45
IPR-24	5/20/2011	65.88	ND	18.55	ND	44.4	0	0.00	47.33
IPR-25	5/20/2011	70.56	ND	22.30	42.5	44.5	0	2.00	48.26
IPR-26	NM	NM	NM	NM	NM	NM	NM	NM	NM
IPR-27	5/20/2011	NM	ND	22.65	NM	NM	0	2.50	NM
IPR-28	5/20/2011	NM	ND	20.16	NM	NM	0	0.20	NM
IPR-29	5/20/2011	NM	ND	18.51	48.90	49.7	0	0.80	NM
IPR-30	NM	NM	NM	NM	NM	NM	NM	NM	NM
IPR-31	NM	NM	NM	NM	NM	NM	NM	NM	NM
OSMW-01	5/20/2011	71.12	ND	23.51	ND	42.2	0	0.00	47.61
OSMW-02	5/20/2011	71.59	ND	23.47	ND	45.2	0	0.00	48.12
OSMW-03	5/20/2011	71.39	ND	23.31	ND	44.7	0	0.00	48.08

Notes:

(1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96

sheen Sheen = assumed thickness of 0.01 ft
NM not measured
LNAPL light non-aqueous phase liquid
DNAPL dense non-aqueous phase liquid
TOR top of riser
amsl above mean sea level
ND NAPL not detected

Table 3
NAPL Recovery for Second Quarter of 2011
Hempstead Intersection Street Former MGP Site

Well ID	April 15, 2011			May 2-3, 2011			May 20, 2011			June 7-8, 2011			June 23, 2011		
	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)
	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]
HIMW-01S	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-01I	ND	1.30	0.20	ND	1.50	0.26	ND	0.30	0.05	ND	ND	0.00	NI	NI	0.00
HIMW-06S	ND	2.10	0.40	ND	1.30	0.22	ND	2.00	0.34	ND	2.00	0.34	ND	2.50	0.43
HIMW-06I	NI	NI	0.00	ND	ND	0.00	ND	0.01	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-07S	ND	0.50	0.01	ND	0.01	0.00	ND	2.00	0.34	ND	1.00	0.17	ND	0.05	0.00
HIMW-07I	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-07D	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-11S	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-11I	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
HIMW-16S	NI	NI	0.00	ND	5.00	0.85	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
HIMW-16I	NI	NI	0.00	ND	5.00	0.85	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
HIMW-17S	ND	1.50	0.25	ND	1.20	0.20	NI	NI	0.00	ND	1.50	0.26	ND	0.80	0.14
HIMW-18S	NI	NI	0.00	ND	0.01	0.00	NI	NI	0.00	ND	0.01	0.00	NI	NI	0.00
HIMW-18I	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-19S	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-19I	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
HIMW-21	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	ND	1.00	1.50	ND	0.40	0.60
PZ-08	ND	0.01	0.00	ND	0.01	0.00	ND	0.90	0.15	ND	1.00	0.17	ND	ND	0.00
IPR-02	ND	0.90	1.35	ND	1.00	1.50	ND	0.70	1.05	ND	ND	0.00	ND	0.30	0.45
IPR-03	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-05	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
IPR-06	ND	1.20	1.50	ND	1.00	1.50	ND	0.90	1.35	ND	1.50	2.25	ND	0.30	0.45
IPR-09	ND	0.90	1.35	ND	1.20	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-12A	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-14	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-15	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-16	ND	1.20	1.70	ND	0.01	0.00	NI	NI	0.00	ND	1.00	1.50	ND	ND	0.00
IPR-17	ND	1.30	1.80	ND	1.50	0.00	ND	0.60	0.25	ND	ND	0.00	ND	ND	0.00
IPR-18	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-19D	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-20	ND	0.01	0.00	ND	0.01	0.00	NI	NI	0.00	ND	0.60	0.00	NI	NI	0.00
IPR-21	ND	2.00	3.00	ND	3.10	3.00	ND	0.80	0.50	ND	3.00	4.50	ND	2.40	3.60
IPR-22	NI	NI	0.00	ND	0.90	0.00	ND	1.50	2.00	ND	0.80	1.20	ND	1.00	1.50
IPR-23	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00	ND	ND	0.00	NI	NI	0.00
IPR-24	NI	NI	0.00	ND	0.01	0.00	NI	NI	0.00	ND	1.00	1.50	NI	NI	0.00
IPR-25	ND	2.20	0.00	NI	NI	0.00	ND	2.00	3.00	ND	2.00	3.00	ND	3.40	0.00
IPR-26	ND	1.00	1.50	ND	0.80	1.20	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
IPR-27	ND	1.50	0.50	ND	1.50	0.00	ND	2.50	0.50	ND	2.00	0.00	ND	1.30	1.95
IPR-28	NI	NI	0.00	ND	0.50	0.00	ND	0.20	0.30	ND	ND	0.00	ND	0.30	0.45
IPR-29	ND	1.20	1.80	ND	0.20	0.00	ND	0.80	0.00	ND	1.00	1.50	ND	0.40	0.60
IPR-30	ND	1.50	0.00	ND	2.00	2.00	NI	NI	0.00	ND	0.40	0.00	NI	NI	0.00
	Volume Removed		**15.36**	Volume Removed		**11.58**	Volume Removed		**9.83**	Volume Removed		**17.89**	Volume Removed		**10.17**

Total volume recovered during the second quarter 2011: **64.83 gal**
Total volume of NAPL recovered since April 2007: **721.7 gal**

Well temporarily inaccessible at time of monitoring event.

Notes:

NI - well not included in the product recovery event
ND - non-detect
LNAPL - light non-aqueous phase liquid
DNAPL - dense non-aqueous phase liquid

(1) - Volume of product recovered estimated by multiplying the cross sectional area of well screen by the thickness of product layer measured prior to pumping.

All IPR monitoring wells (unless noted) and HIMW-21are 6-inch diameter:	Vol =	1.469
Monitoring wells IPR-16 and IPR-17 are 5.75-inch diameter:	Vol =	1.349
All HIMW (unless noted) and PZ monitoring wells are 2-inch diameter:	Vol =	0.163
Monitoring well IPR-05 and IPR-12A are 1-inch diameter:	Vol =	0.041

Table 4

Dissolved-Phase Concentrations of Total BTEX and Total PAH Compounds for the Second Quarter of 2011 Hempstead Intersection Street Former MGP Site

Well ID	Second Quarter 2011 May 23- June 3, 2011	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D	ND	ND
HIMW-003I	ND	ND
HIMW-003S	ND	ND
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	133	166
HIMW-005I	146	2,120
HIMW-005S	ND	ND
HIMW-006D		
HIMW-006I		
HIMW-006S		
HIMW-007D		
HIMW-007I		
HIMW-007S		
HIMW-008D	ND	ND
HIMW-008I	ND	ND
HIMW-008S	ND	3
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	64	108
HIMW-012S	ND	ND
HIMW-013D	2	17
HIMW-013I	142	67
HIMW-013S	ND	ND
HIMW-014D	ND	ND
HIMW-014I	29	42
HIMW-015D	ND	ND
HIMW-015I	23	31
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I	198	530
HIMW-020S	ND	ND
HIMW-022	ND	ND
HIMW-023	43	11
HIMW-024	870	1,020
HIMW-025	552	573
PZ-02		
PZ-03		
PZ-08		

Notes:

	A blank field is "Not Sampled".
	NAPL is periodically identified in this well.
ND	Not Detected.
ug/L	micrograms per liter

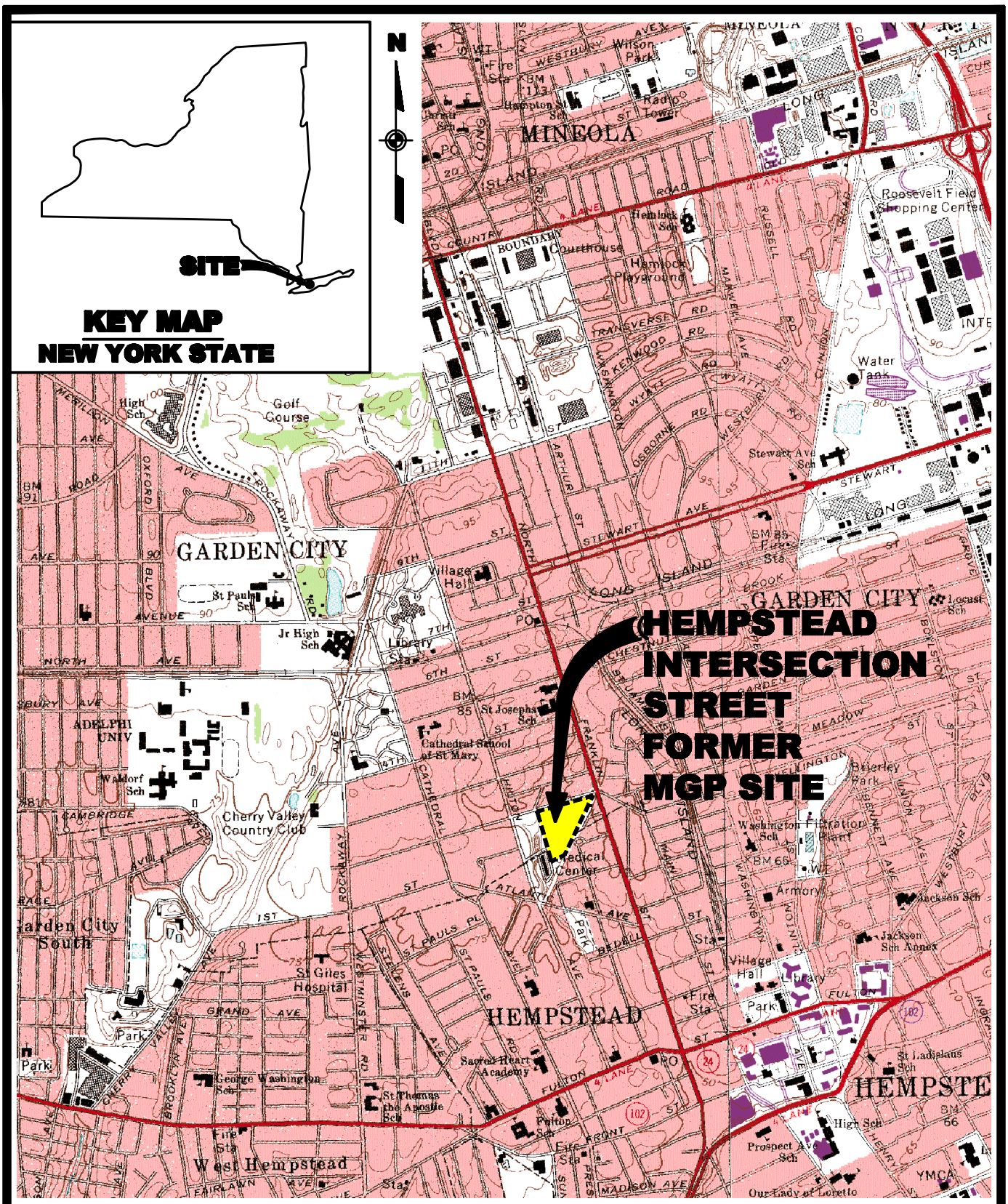
Table 5
Groundwater Treatment Performance Monitoring
Second Quarter 2011
Hempstead Intersection Street Former MGP Site

		5/20/2011			5/27/2011			6/23/2011		
	ID	DTW (ft)	DO (mg/L	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)
System # 1	MP-1-1S	25.29	34.87	0.0	25.10	17.23	0.0	25.49	8.51	3.0
	MP-1-1D	25.17	33.32	0.0	24.97	26.39	0.0	25.27	9.39	1.6
	MP-1-2S	19.71	29.27	0.0	19.72	13.41	0.0	19.97	12.03	5.4
	MP-1-2D	19.44	47.14	0.0	19.39	25.24	0.0	19.72	21.97	2.8
	MP-1-3S	17.46	7.74	0.0	17.50	7.68	0.0	17.78	21.14	3.3
	MP-1-3D	17.47	4.61	0.0	17.48	9.04	0.0	17.77	47.52	8.5
	MP-1-4S	19.94	7.02	0.0	20.01	6.12	0.0	20.29	7.16	279.7
	MP-1-4D	20.12	39.79	0.0	20.04	48.14	0.0	20.46	20.36	54.5
	MP-1-5	NA	NA	NA	NA	NA	NA	25.03	10.39	104.2
	MP-1-6	17.20	20.87	0.0	19.25	9.48	0.0	17.53	9.20	41.2
	MP-1-7	20.50	0.61	0.0	20.49	1.65	0.0	20.85	1.07	7.2
	MP-1-8	21.47	2.67	0.0	21.53	5.21	0.0	21.82	21.06	11.4

		4/12/2011			4/28/2011			5/13/2011			5/26/2011			6/10/2011			6/24/2011		
	ID	DTW (ft)	DO (mg/L	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)	DTW (ft)	DO (mg/L)	PID (ppm)
System # 2	MP-2-1	29.07	15.62	0.0	28.55	13.80	0.0	28.44	25.49	0.0	28.20	14.20	0.0	28.43	12.51	38.7	28.54	15.18	214.4
	MP-2-2	30.15	27.80	0.0	29.61	33.39	0.1	29.52	32.89	0.0	29.26	31.75	0.0	29.48	7.21	0.0	29.61	21.12	0.0
	MP-2-3S	30.28	48.68	0.1	29.71	39.41	0.1	29.62	49.12	0.0	29.35	43.64	0.0	29.60	8.68	0.0	29.71	12.13	7.1
	MP-2-3D	30.52	49.10	0.1	29.93	39.52	0.0	29.86	49.21	0.0	29.61	44.41	0.0	29.83	11.91	0.0	29.97	15.79	10.2
	MP-2-4	19.08	36.90	0.0	18.46	32.39	0.0	18.40	39.73	0.0	18.13	45.41	0.0	18.35	11.05	1.4	18.47	9.41	149.4
	MP-2-5	17.27	18.37	0.0	16.63	5.23	0.0	16.63	14.35	0.0	16.31	10.32	0.0	16.58	8.46	73.8	16.70	11.20	157.1

DTW: Depth to water (feet)
DO: Dissolved Oxygen concentration (percent or milligrams per liter)
PID: Photoionization Detector measurement of well headspace (parts per million)
NA: Not Accessible

FIGURES



SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUANDRANGLES:
FREEPORT, NY (1969)
LYNBROOK, NY (1969)

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

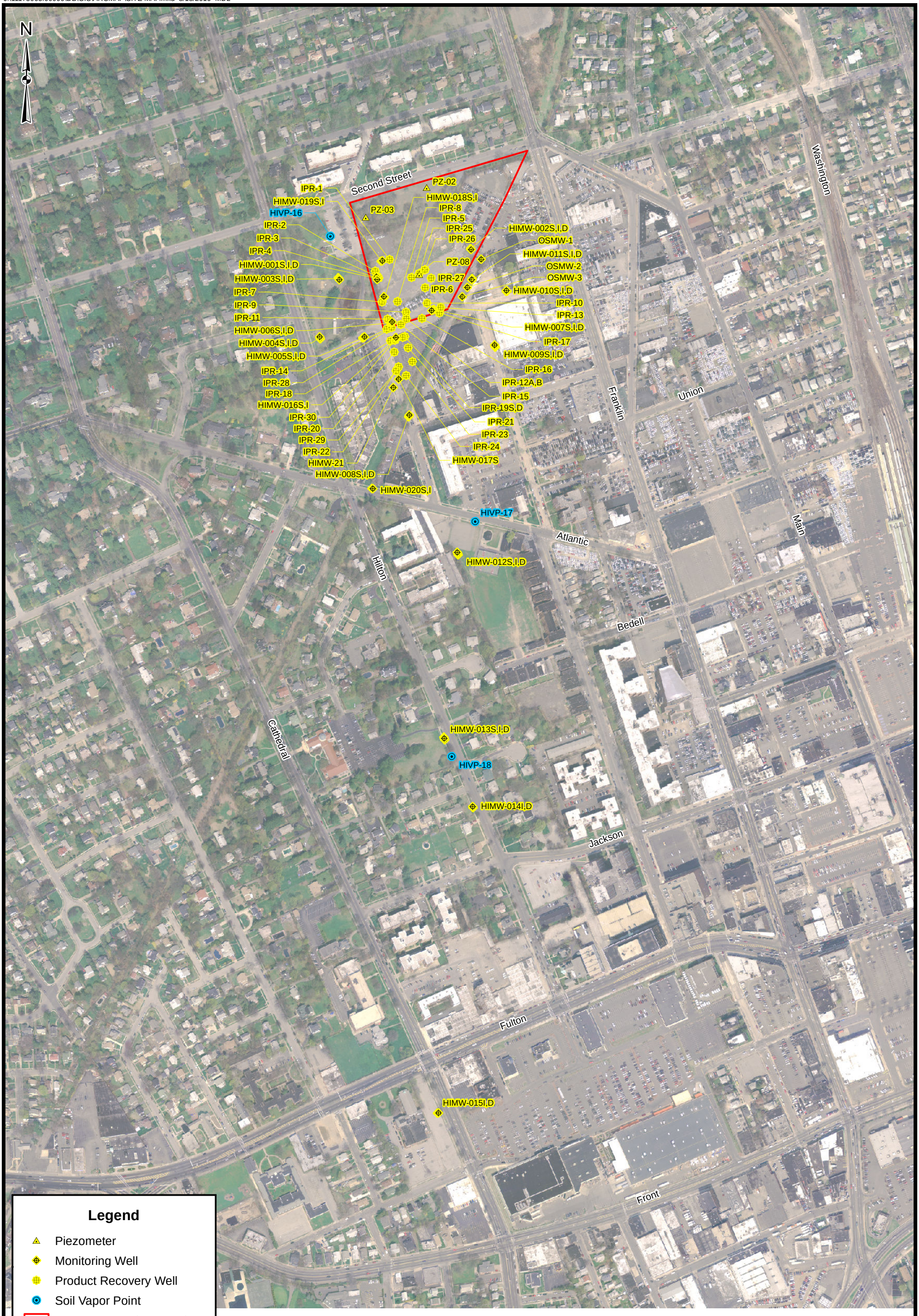
URS Corporation

LOCATION MAP

FIGURE 1

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIGURE-1.dwg 3/13/09 - 1 RAL

J:\11175065.00000\DB\GIS\ARCMAP\SITE MAP.mxd 8/18/2010 MDL

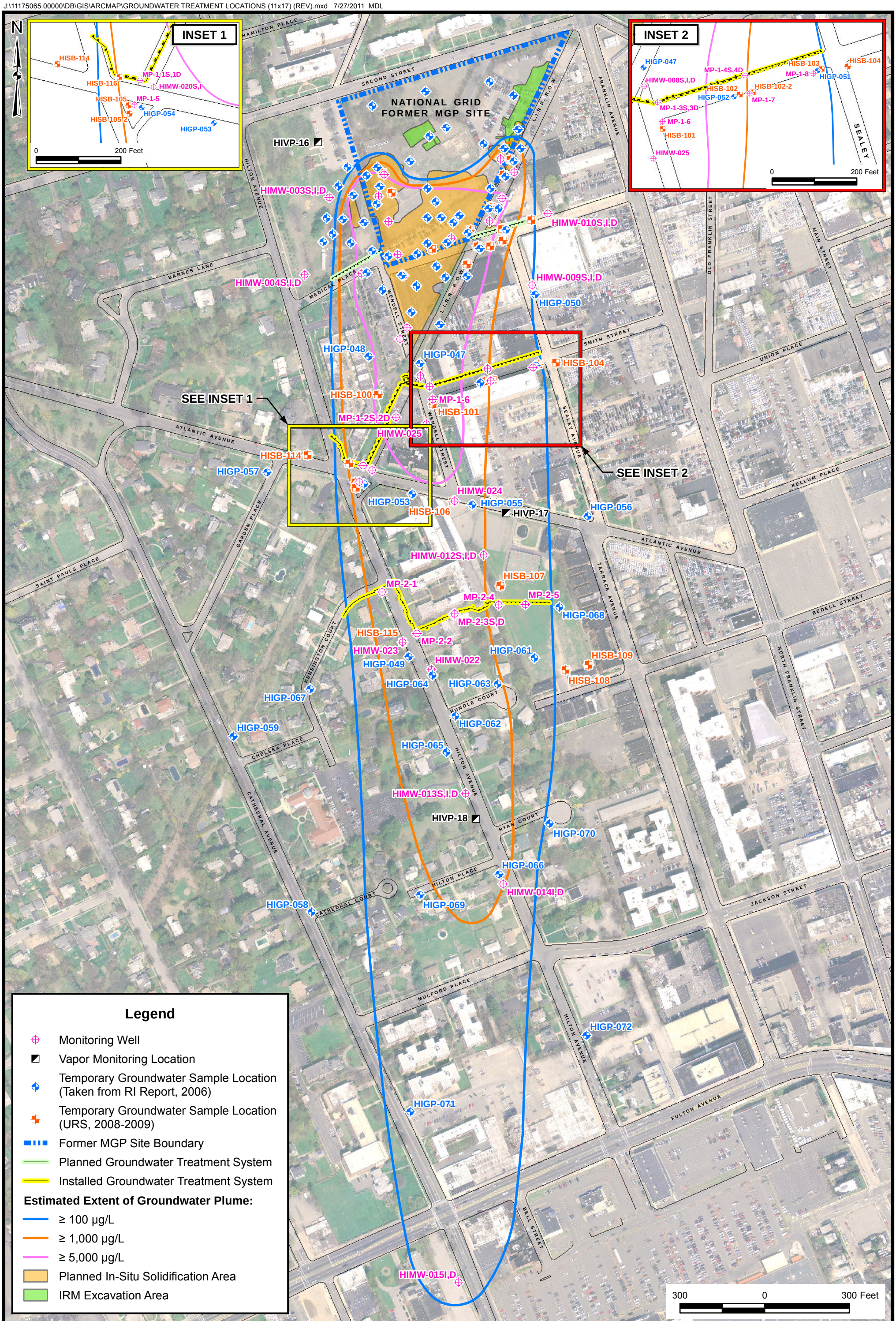


URS

HEMPSTEAD/GARDEN CITY, NY
SITE MAP

FIGURE 2

J:\11175065.00000\DB\GIS\ARCMAP\GROUNDWATER TREATMENT LOCATIONS (11x17) (REV).mxd 7/27/2011 MDL



URS

NATIONAL GRID HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NEW YORK
SOIL REMEDIATION AND GROUNDWATER TREATMENT LOCATIONS

FIGURE 3

HIGP-209 (11/11/08)		
DEPTH	TOT. BTEX	TOT. PAHs
34–38	1,709	1,066
40–44	4,980	645
50–54	3,859	1,297
70–74	2	3

HIGP-40 (8/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	4,166	9,815
56–60	4	112

HIGP-49 (10/16/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	7	63
90–94	ND	16

HIGP-55 (9/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
23–27	31	244
60–64	69	532
80–84	2	ND

HIGP-61 (11/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
26–30	ND	ND
60–64	30	39
90–94	2	2

HIGP-66 (12/14/00)		
DEPTH	TOT. BTEX	TOT. PAHs
40–44	ND	1
56–60	8	60
72–76	398	787
90–94	12,970	259

HIGP-71 (11/6/01)		
DEPTH	TOT. BTEX	TOT. PAHs
46–50	ND	ND
54–58	ND	ND
62–66	1	7
72–76	29	84
81–85	126	95

HIMW-09S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–16	ND–8
70–80	ND–2	ND
113–123	ND–16	ND–10

HIMW-15 I,D		
DEPTH	TOT. BTEX	TOT. PAHs
80–90	5–111 (23)	ND–273 (31)
141.5–151.5	ND–94 (ND)	ND–1 (ND)

HISB-100 (11/19/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	12,000	1,576
50–54	441	332
60–64	1,470	599
70–74	747	1,809
80–84	22	21

HISB-104 (9/24/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
45–49	ND	ND
55–59	ND	ND

HISB-108 (12/9/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	12	1
80–84	20	1
90–94	26	2

HISB-116 (6/23/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	1.3	ND
60–64	100	192
70–74	6	37
80–84	91	330
90–94	100	451
100–104	292	604

HIGP-01 (8/7/00)		
DEPTH	TOT. BTEX	TOT. PAHs
25–29	ND	ND
56–60	1	1

HIGP-41 (8/11/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	2,241	3,258
58–62	1	17

HIGP-50 (9/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	8
60–64	ND	ND

HIGP-56 (10/9/00)		
DEPTH	TOT. BTEX	TOT. PAHs
24–28	ND	2
60–64	ND	ND

HIGP-62 (11/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	8	4
54–58	771	152
84–89	45	89

HIGP-67 (12/20/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	ND	ND
54–58	ND	ND
72–76	ND	27
90–94	ND	ND

HIGP-72 (11/6/01)		
DEPTH	TOT. BTEX	TOT. PAHs
52–56	ND	ND
62–66	ND	ND
72–76	ND	ND
82–86	ND	ND
92–96	ND	ND

HIMW-10S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
28–38	ND–33	1–150
80.5–90.5	ND–13	ND
112.5–132.5	ND–16	ND

HIMW-20S,I		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND (ND)	ND (ND)
63–73	132–224 (198)	96–1,144 (530)

HISB-101 (11/19/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	122	190
40–44	14,100	4,356
50–54	4,040	3,244
60–64	1,995	2,074
70–74	4	4
80–84	1	2

HISB-105 (12/4/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	518
50–54	469	ND
60–64	1,043	3,058
70–74	60	59
80–84	279	576
90–94	48	99

HIGP-117 (4/22/10)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	2
80–84	2	32
90–94	ND	2
100–104	ND	ND

HIGP-02 (8/8/00)		
DEPTH	TOT. BTEX	TOT. PAHs
31–35	ND	ND
56–60	ND	ND

HIGP-44 (8/10/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	469	244
57–61	3	47

HIGP-51 (8/31/00)		
DEPTH	TOT. BTEX	TOT. PAHs
28–32	ND	ND
58–60	ND	ND

HIGP-57 (9/21/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
64–68	ND	ND

HIGP-63 (12/15/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	3
54–58	18	22
72–76	3,979	2,769
90–94	773	63

HIGP-68 (12/20/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	3	5
54–58	163	300
72–76	ND	ND
90–94	ND	ND

HIMW-03S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
23–33	ND–36 (ND)	ND (ND)
80.5–90.5	ND–13 (ND)	ND (ND)
133–143	ND–8.2 (ND)	ND–30 (ND)

HIMW-12S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
22–32	ND–338.8 (ND)	ND–1,391 (ND)
63–73	29.2–256 (64)	65–527 (108)
117–127	ND–6 (ND)	ND–2 (ND)

HIMW-022 (5/26/11)		
DEPTH	TOT. BTEX	TOT. PAHs
54–64	ND	ND

HISB-102 (12/1/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,800	2,706
40–44	835	1,119
50–54	225	2,735
60–64	ND	10
70–74	1	4
80–84	76	130

HISB-105(2) (12/18/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	15	19
40–44	14	35
50–54	247	912
60–64	560	2,941
70–74	59	34
80–84	14	69
90–94	24	221
100–104	1	ND

HISB-114 (12/23/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	ND	ND
50–54	ND	ND
60–64	ND	ND
70–74	ND	ND
80–84	ND	ND
90–94	ND	ND

HIGP-119 (4/14/10)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
40–44	ND	1
50–54	ND	2
60–64	ND	ND
70–74	ND	4
80–84	ND	16
90–94	ND	4

HIGP-03 (7/28/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
56–60	ND	ND

HIGP-45 (10/17/00)		
DEPTH	TOT. BTEX	TOT. PAHs
32–38	1,229	1,254
60–64	ND	ND

HIGP-52 (9/11/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	1,031	2,629
58–60	ND	ND

HIGP-58 (10/18/00)		
DEPTH	TOT. BTEX	TOT. PAHs
36–40	ND	ND
60–64	ND	ND
90–94	ND	ND

HIGP-64 (12/18/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	27	17
54–58	4,031	1,574
72–76	401	239
90–94	14	48

HIGP-69 (9/24/01)		
DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	ND
70–74	28	28
82–86	126	76
90–94	12	19
104–108	5	ND

HIMW-04S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
30–40	ND–4	ND–1
80–90	ND–13	ND
167–177	ND–4	ND–1

HIMW-13S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
38–48	ND–11 (ND)	ND (ND)
70–80	ND–313 (142)	58–156 (87)
110–120	2–30 (2)	ND–21 (17)

HIMW-023 (5/26/11)		
DEPTH	TOT. BTEX	TOT. PAHs
66–76	43	11

HISB-102(2) (1/8/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	423	859
40–44	484	274
50–54	349	652
60–64	68	453
70–74	5	5
80–84	ND	1

HISB-106 (12/4/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	418	602
40–44	1,162	383
50–54	1,800	2,513
60–64	815	572
70–74	68	51
80–84	35	30
90–94	124	98

HISB-115 (1/14/09)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	15
40–44	9	14
50–54	288	265
60–64	125	133
70–74	1,411	1,153
80–84	123	99
90–94	56	67

HITW-01 (9/21/01)		
DEPTH	TOT. BTEX	TOT. PAHs
40–44	2	ND
54–58	3	6
70–74	95	278
82–86	293	274
90–94	45	44
109–113	210	1

HIGP-04 (7/24/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
56–60	ND	2

HIGP-47 (8/22/00)		
DEPTH	TOT. BTEX	TOT. PAHs
31–35	6,670	18,715
60–64	500	369

HIGP-53 (9/1/00)		
DEPTH	TOT. BTEX	TOT. PAHs
27–31	76	317
60–64	15	35
90–94	1	ND

HIGP-59 (10/17/00)		
DEPTH	TOT. BTEX	TOT. PAHs
34–38	1	ND
60–64	ND	2
90–94	27	4

HIGP-65 (12/19/00)		
DEPTH	TOT. BTEX	TOT. PAHs
37–41	2	ND
54–58	376	125
72–76	775	190
90–94	36	59

HIGP-70 (9/20/01)		
DEPTH	TOT. BTEX	TOT. PAHs
54–58	ND	0
70–74	21	20
82–86	29	38
92–96	15	18
110–114	3	6
140–144	3	ND

HIMW-05S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
27–37	ND–232 (ND)	ND–765 (ND)
80–90	146–439 (148)	1,494–5,337 (2,120)
130–140	ND–359 (133)	ND–2,344 (186)

HIMW-14 I,D		
DEPTH	TOT. BTEX	TOT. PAHs
85–95	24–273 (29)	28–288 (42)
140–150	ND–15 (ND)	ND (ND)

HIMW-024 (5/25/11)		
DEPTH	TOT. BTEX	TOT. PAHs
44.6–54.6	870	1,020

HISB-103 (12/1/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	4	6
50–54	84	171
60–64	ND	ND
70–74	ND	ND
80–84	5	9

HISB-107 (12/8/08)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	ND
40–44	217	47
50–54	551	258
60–64	29	68
70–74	ND	ND
80–84	ND	ND
90–94	24	8

HITW-02 (10/31/01)		
DEPTH	TOT. BTEX	TOT. PAHs
55–60	2	ND
65–70	5	9
75–80	9	40
85–90	29	52
115–120	42	ND
148–153	9	0

HIGP-28 (8/4/00)		
DEPTH	TOT. BTEX	TOT. PAHs
29–33	17	22
58–62	2,640	5,933

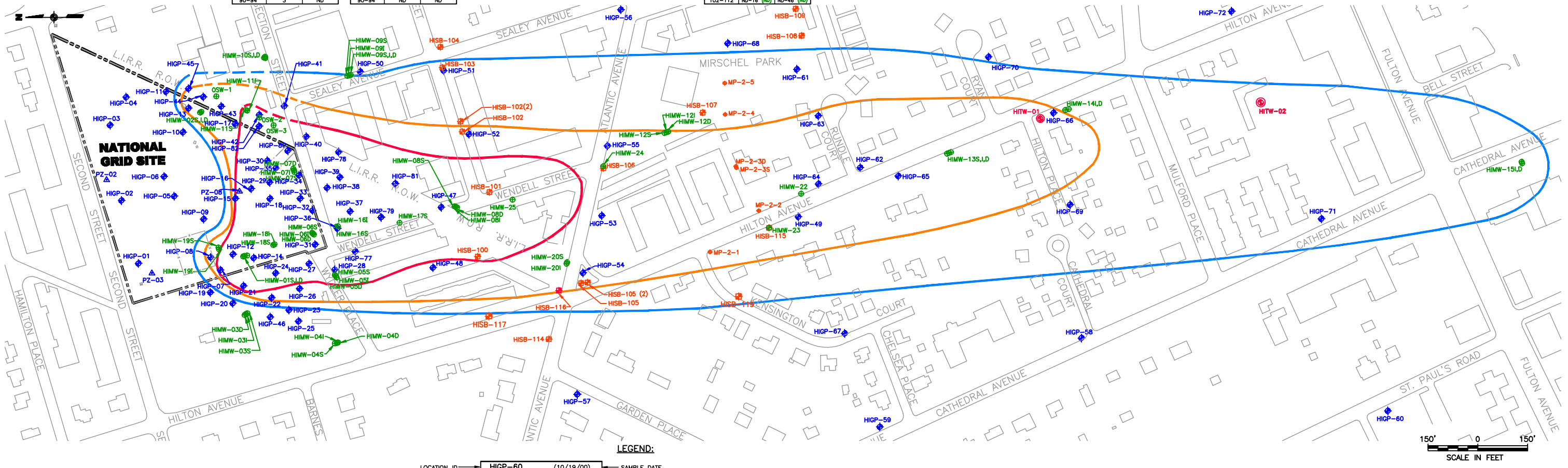
HIGP-48 (8/25/00)		
DEPTH	TOT. BTEX	TOT. PAHs
30–34	ND	2
60–64	766	926

HIGP-54 (9/5/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	1
60–64	373	338
90–94	3	ND

HIGP-60 (10/19/00)		
DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

HIMW-08S,I,D		
DEPTH	TOT. BTEX	TOT. PAHs
25–35	ND–8,240 (ND)	ND–3,069 (3)
63–73	ND–8.6 (ND)	ND–251 (ND)
102–112	ND–16 (ND)	ND–46 (ND)

HIMW-025 (5/25/11)		
DEPTH	TOT. BTEX	TOT. PAHs
42–52	552	573



LEGEND:

HITW-02 TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)

HIGP-53 TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)

MP-2-1 MONITORING WELL

HIMW-13 MONITORING WELL

PZ-02 PIEZOMETER

HISB-114 TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008–2009)

ND NOT DETECTED

LOCATION ID → HIGP–60 (10/19/00) ← SAMPLE DATE

DEPTH (ft bgs) →

DEPTH	TOT. BTEX	TOT. PAHs
33–37	ND	ND
60–64	ND	ND
90–94	ND	ND

← CONCENTRATION UNITS ARE ug/L (MAY 2011 CONCENTRATION)

* SOME LOCATIONS ON SITE AND ADJACENT TO SITE ARE NOT SHOWN FOR FIGURE CLARITY.

EXISTING HOUSE OR BUILDING

NATIONAL GRID PROPERTY BOUNDARY

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 5,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L

ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. DASHED LINES REPRESENT CONTAMINATION CONCENTRATIONS THAT ARE LIKELY INFLUENCED BY THIRD PARTY SOURCES.

J:\11175085.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\SECOND QUARTER 2011\FIGURE 4.dwg 8/11/11 – 5 RAL

URS Corporation

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS

FIGURE 4

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MAY 2011\FIGURE 5.dwg 7/27/11 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

PZ-02, NM
PZ-03, NM
HIMW-19S, 48.31
HIMW-01S, 48.2
IPR-8, 47.96
IPR-9, 47.95
HIMW-03S, 48.01
HIMW-18S, 48.2
IPR-7, 48.79
IPR-12A, 49.45
IPR-11, 47.87
HIMW-06S, 47.84
IPR-14, 47.78
HIMW-04S, 48.35
HIMW-05S, 47.54
HIMW-016S, NM
IPR-20, NM
IPR-22, 47.43
HIMW-17S, NM
HIMW-8S, 47.13
HIMW-20S, NM
HIMW-12S, 45.94
HIMW-13S, 43.93
IPR-1, 48.37
IPR-3, 48.19
IPR-25, 48.26
IPR-10, 48.1
IPR-13, 48.02
IPR-12B, 47.33
IPR-15, 47.83
IPR-19S, NM
IPR-21, 48.45
IPR-23, 47.45
IPR-24, 47.33
HIMW-02S, 48.41
OSMW-1, 47.61
PZ-08, 48.95
HIMW-11S, 48.42
HIMW-10S, 48.06
OSMW-2, 48.12
OSMW-3, 48.08
HIMW-07S, 47.87
HIMW-09S, 47.62

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47.5
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46.5
46
45.5
45
44.5
44

SECOND STREET
HILTON AVENUE
BARNES LANE
HAMILTON PLACE
WENDELL STREET
SEALEY AVENUE
L.I.R.R. R.O.W.
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMIS PLACE
OLD FRANKLIN STREET
MILLER PLACE
UNION PLACE
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KELLUM PLACE
MARGARET COURT
TERRACE AVENUE
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA
MIRSCHEL PARK
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
RUNDLE COURT
RYAN COURT
CATHEDRAL COURT
HILTON PLACE
JACKSON STREET
MULFORD PLACE
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

⊕	MONITORING WELL
⊞	IPR WELL
△	PIEZOMETER
→	GROUNDWATER FLOW DIRECTION
44	POTENTIOMETRIC SURFACE CONTOUR
- - -	FORMER MGP SITE BOUNDARY
HIMW-8S, 48.33	LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
NM	NOT MEASURED DURING THIS SAMPLING EVENT

300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
MAY 20, 2011

FIGURE 5

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MAY 2011\FIGURE 6.dwg 7/27/11 - 3 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-19I, 48.46
IPR-4, 48.13
IPR-5, 48.06
HIMW-02I, 53.41
IPR-2, 47.98
HIMW-03I, 47.72
HIMW-01I, 48.13
HIMW-18I, 48.04
HIMW-06I, 47.27
IPR-6, 47.98
HIMW-11I, 48.21
HIMW-07I, 48.53
HIMW-10I, 48.08
IPR-17, 48.4
IPR-16, 47.88
HIMW-04I, 47.29
IPR-19D, 4765
HIMW-16I, NM
HIMW-09I, 47.62
HIMW-05I, 47.38
IPR-18, 47.65
HIMW-08I, 47.04
HIMW-25, 34.0
HIMW-20I, NM
HIMW-24, 30.83
HIMW-12I, 46.05
HIMW-23, 59.0
HIMW-22, 56.26
HIMW-13I, 43.9
HIMW-14I, 43.9
HIMW-15I, 40.79

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SECOND STREET
HILTON AVENUE
BARNES LANE
SNYDLER PLACE
WENDELL STREET
L.I.R.R. R.O.W.
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
OLD FRANKLIN STREET
MILLER PLACE
UNION PLACE
SEALEY AVENUE
SMITH STREET
ATLANTIC AVENUE
GARDEN PLACE
KELLUM PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
RUNDLE COURT
NORTH FRANKLIN STREET
WEST COLUMBIA
RYAN COURT
CATHEDRAL COURT
HILTON PLACE
JACKSON STREET
MULFORD PLACE
ST. PAUL'S
FULTON AVENUE
BELL STREET

LEGEND:

- MONITORING WELL
- IPR WELL
- GROUNDWATER FLOW DIRECTION
- 44 — POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-08I, 48.31 — LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
- NM — NOT MEASURED DURING THIS SAMPLING EVENT

300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
MAY 20, 2011

FIGURE 6

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\MAY 2011\FIGURE 7.dwg 7/27/11 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-02D, 48.43
HIMW-01D, NM
HIMW-11D, 48.15
HIMW-03D, 47.44
HIMW-05D, 46.84
HIMW-10D, 48.09
HIMW-07D, 47.89
HIMW-06D, 47.25
HIMW-04D, 46.74
HIMW-09D, 47.55
HIMW-8D, 45.99
HIMW-12D, 44.33
HIMW-13D, 43.86
HIMW-14D, 41.47
HIMW-15D, 40.24

48
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45
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43
42
41

L.I.R.R. R.O.W.

SECOND STREET
HILTON AVENUE
BARNES LANE
WYDLER PLACE
WENDELL STREET
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
OLD FRANKLIN STREET
INTERSECTION STREET
MILLER PLACE
SEALEY AVENUE
SMITH STREET
UNION PLACE
ATLANTIC AVENUE
GARDEN PLACE
KELLUM PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
MIRSCHEL PARK
TERRACE AVENUE
MARGARET COURT
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA
RUNDLE COURT
RYAN COURT
JACKSON STREET
CATHEDRAL COURT
HILTON PLACE
MULFORD PLACE
FULTON AVENUE
BELL STREET
ST. PAUL'S

LEGEND:

⊕	MONITORING WELL
→	GROUNDWATER FLOW DIRECTION
43	POTENTIOMETRIC SURFACE CONTOUR
- - -	FORMER MGP SITE BOUNDARY
HIMW-12D, 45.70	LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)
NM	NOT MEASURED DURING THIS SAMPLING EVENT

300' 0 300'
SCALE IN FEET

NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
MAY 20, 2011

FIGURE 7

J:\11175065.00000\DB\GIS\ARCMAP\0511 BTEXPAH-NAPL.mxd 7/20/2011 MDL

LOCID	BTEX (µg\L)	PAH (µg/L)	DNAPL (ft)
HIMW-01I			0.30
HIMW-03D			
HIMW-03I			
HIMW-03S			
HIMW-05D	133	166	
HIMW-05I	146	2120	
HIMW-05S			
HIMW-06S			2.00
HIMW-07S			2.00
HIMW-08D			
HIMW-08I			
HIMW-08S		3	
HIMW-12D			
HIMW-12I	64	108	
HIMW-12S			
HIMW-13D	2	17	
HIMW-13I	142	67	
HIMW-13S			
HIMW-14D			
HIMW-14I	29	42	
HIMW-15D			
HIMW-15I	23	31	
HIMW-20I	198	530	
HIMW-20S			
HIMW-22			
HIMW-23	43	11	
HIMW-24	870	1020	
HIMW-25	552	573	
IPR-2			0.70
IPR-6			0.90
IPR-17			0.60
IPR-21			0.80
IPR-22			1.50
IPR-25			2.00
IPR-27			2.50
IPR-28			0.20
IPR-29			0.80
PZ-08			0.90

Legend

- Monitoring Well - Product Detected
- Monitoring Well - Product Not Detected
- Former MGP Site Boundary

Notes:
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
PAH - Polynuclear Aromatic Hydrocarbons
DNAPL - Dense Non-Aqueous Phase Liquid
LNAPL - Light Non-Aqueous Phase Liquid
µg/L - Micrograms per Liter
ft - Feet of Product Thickness

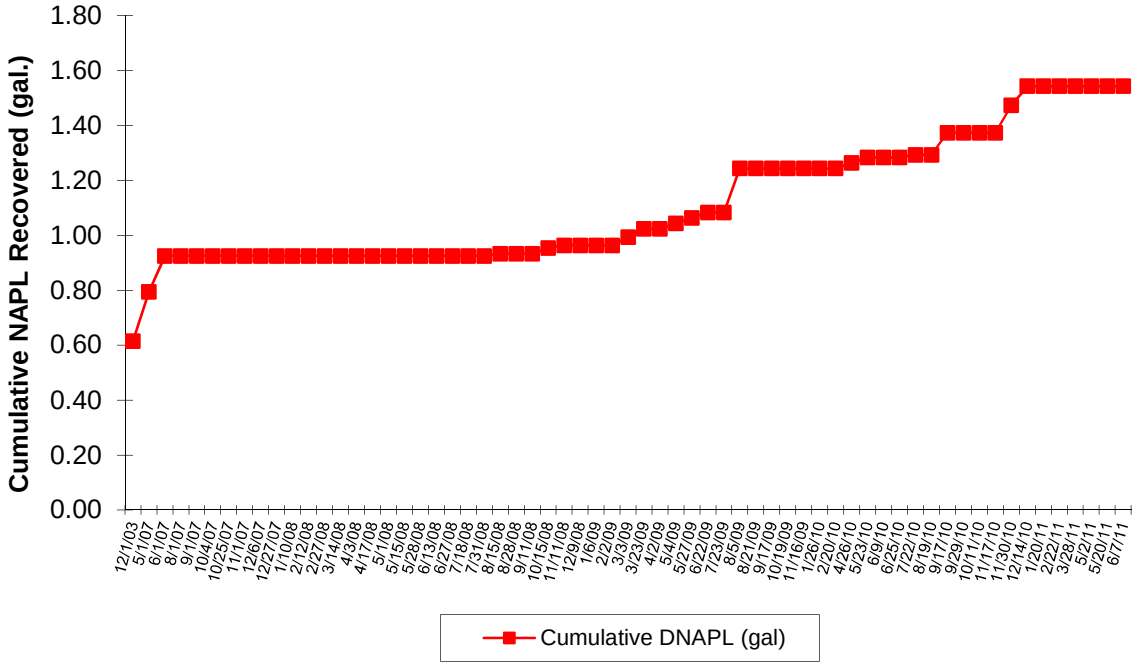
400 0 400 Feet

URS

HEMPSTEAD/GARDEN CITY, NY
TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS
AND FREE PRODUCT THICKNESS
SECOND QUARTER 2011

FIGURE 8

FIGURE 9A
Well HIMW-01S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



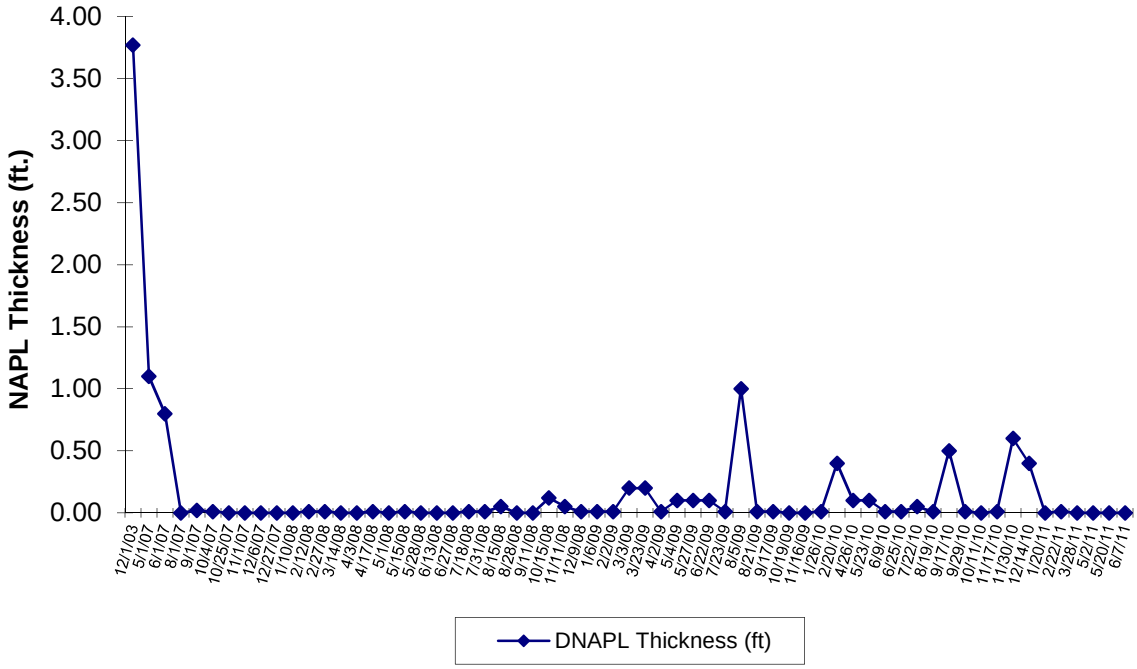
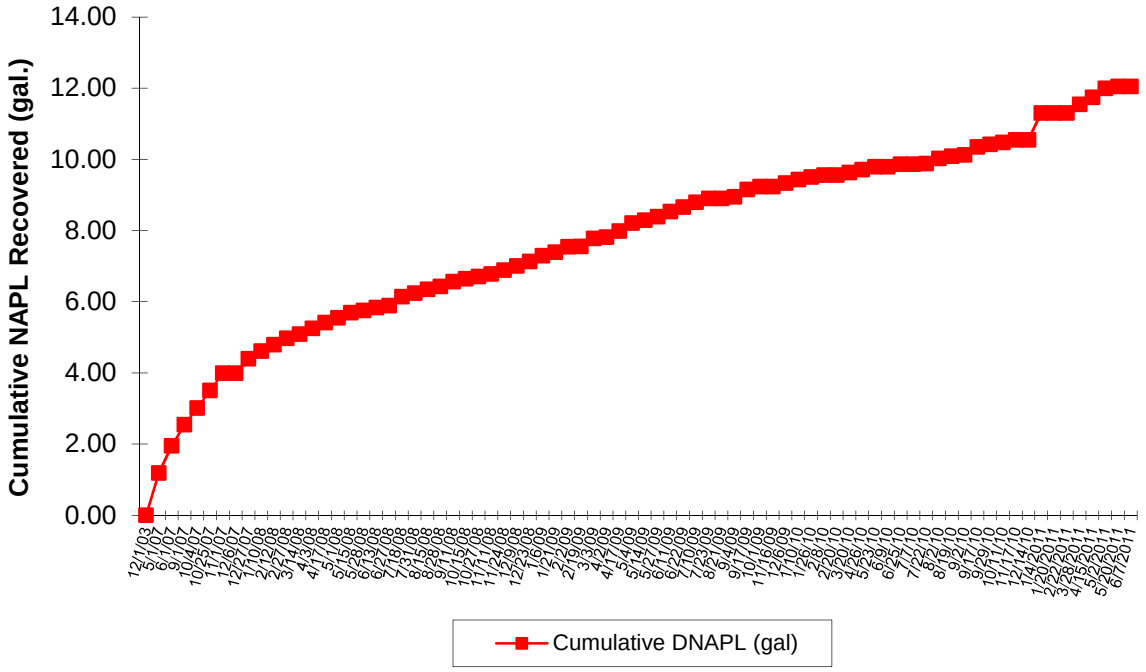


FIGURE 9B
Well HIMW-01I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



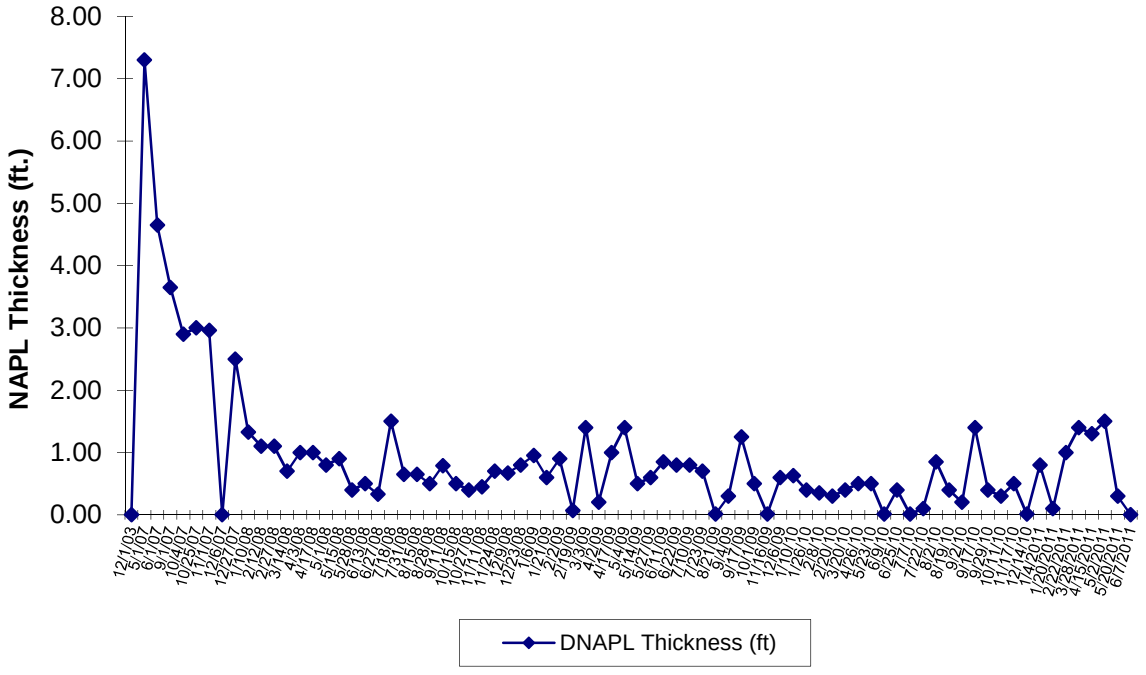
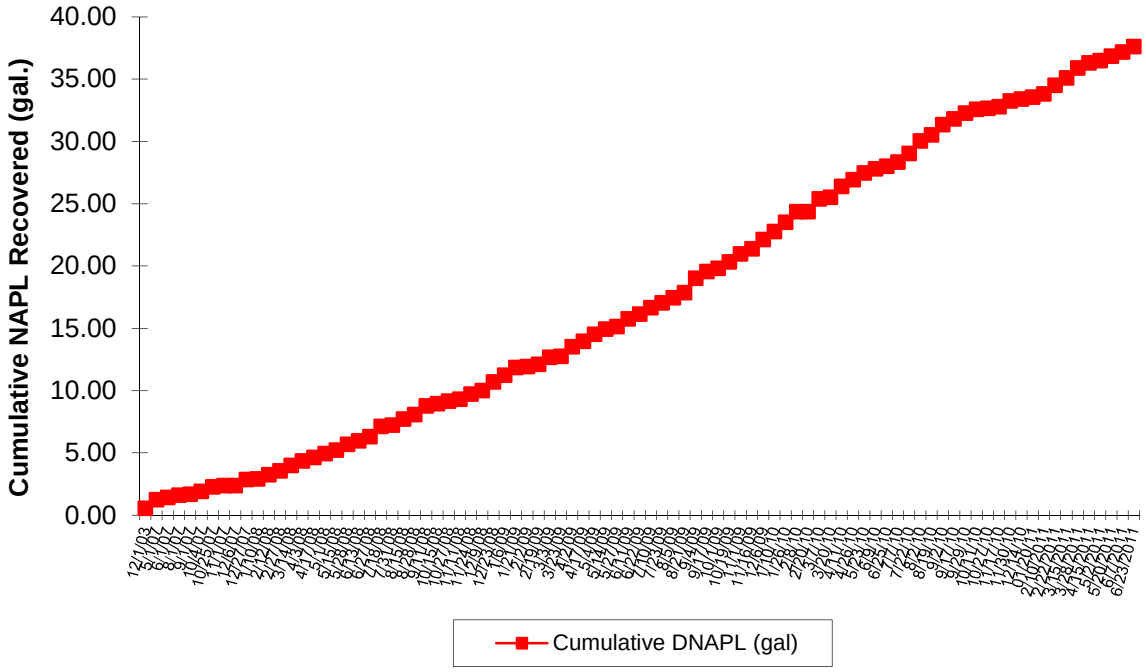


FIGURE 9C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



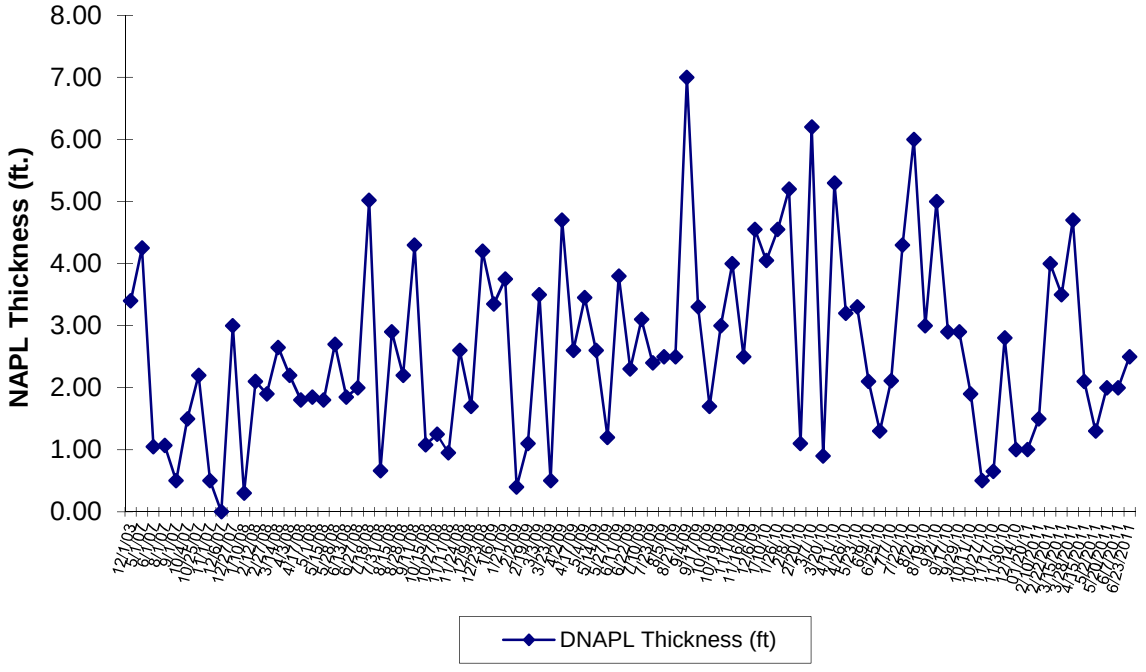
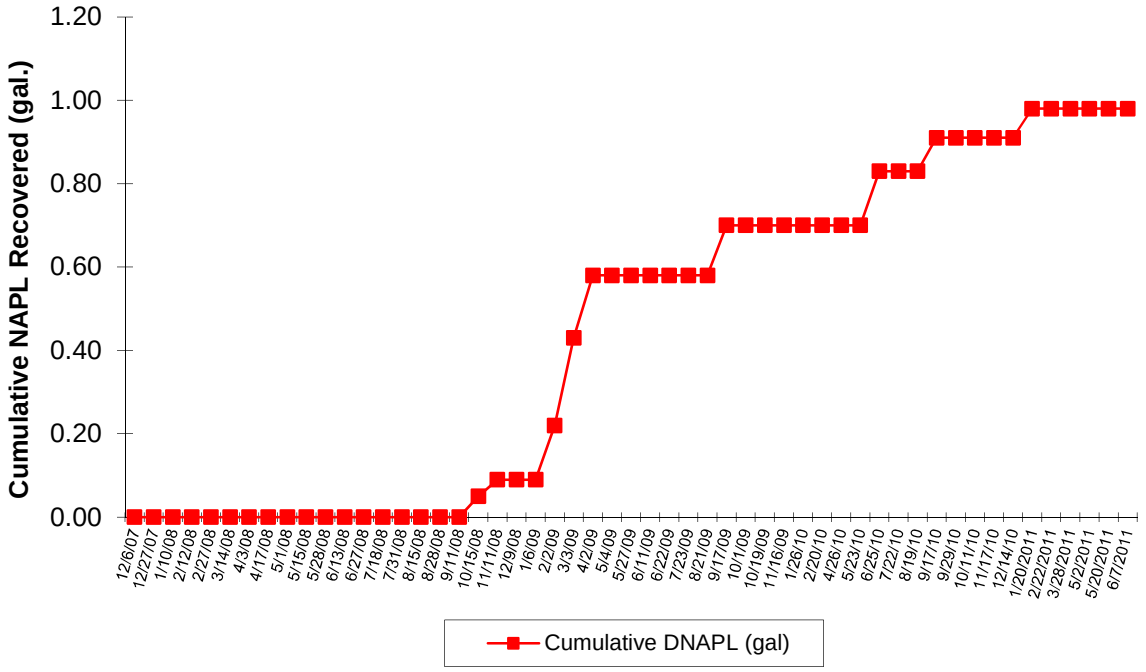


FIGURE 9D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



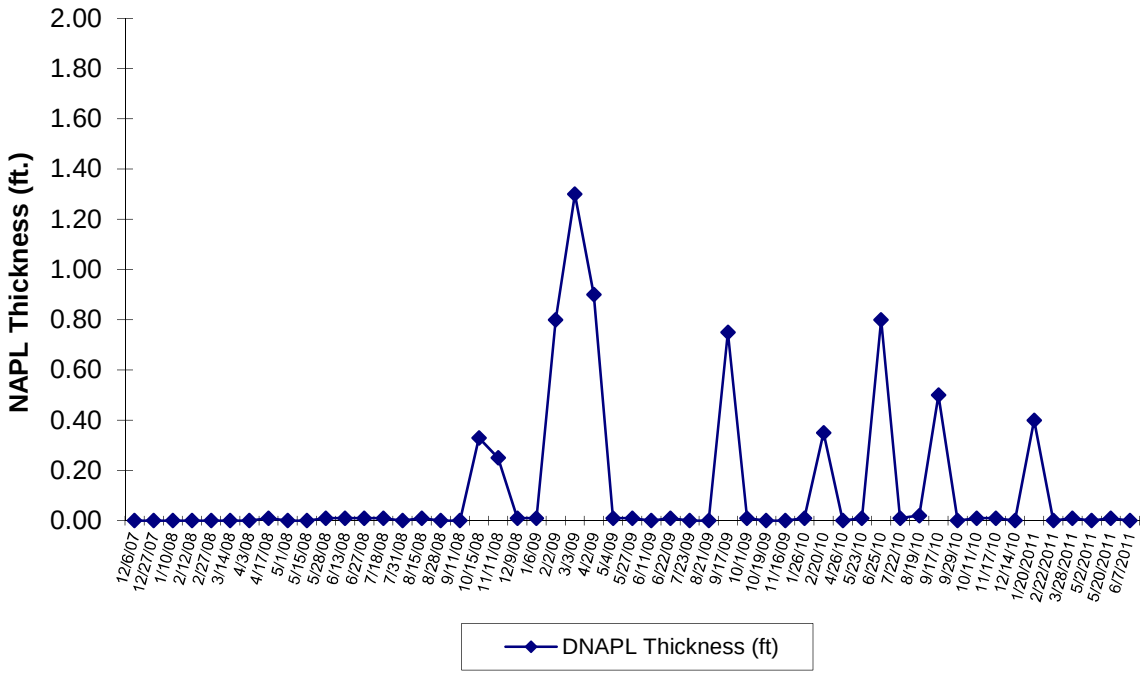
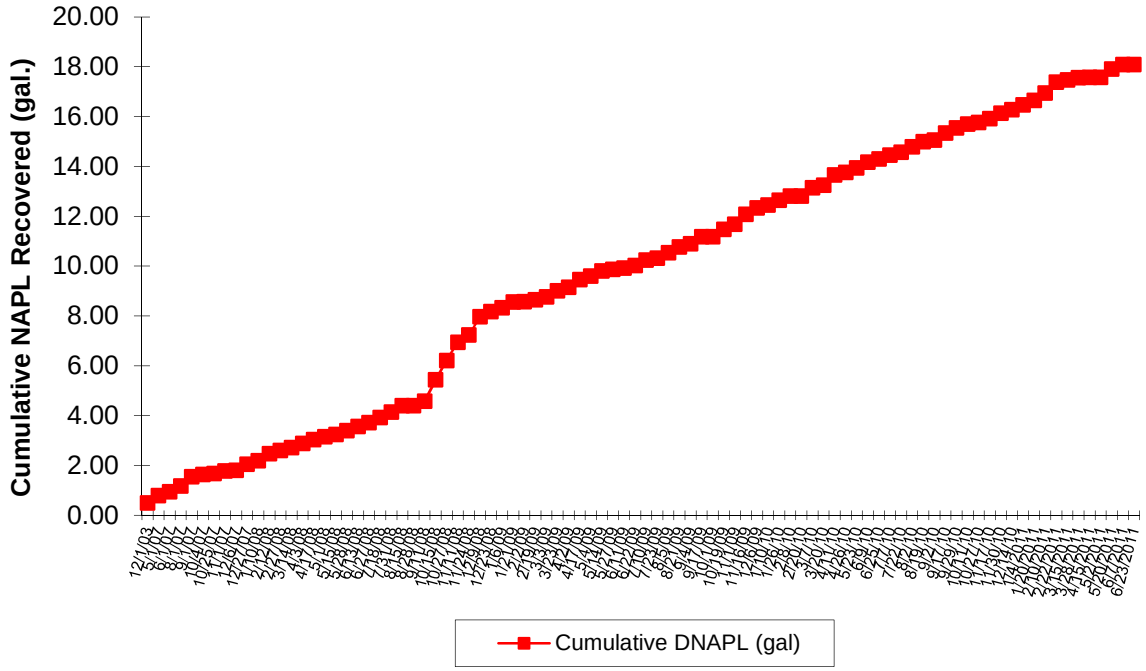


FIGURE 9E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



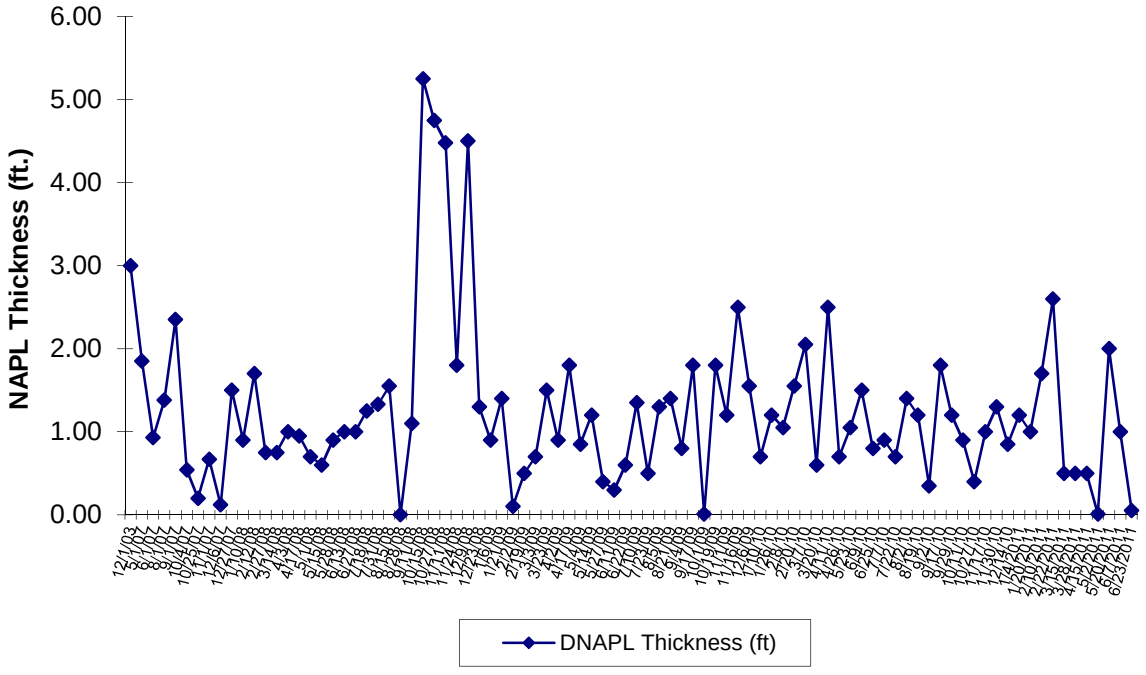
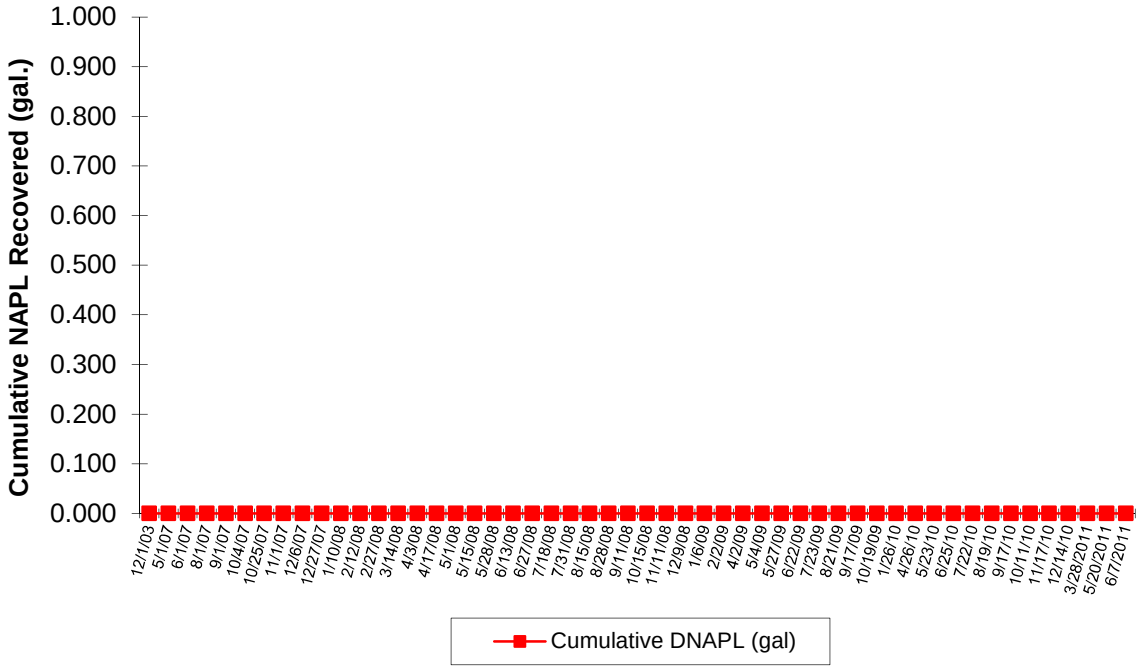


FIGURE 9F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



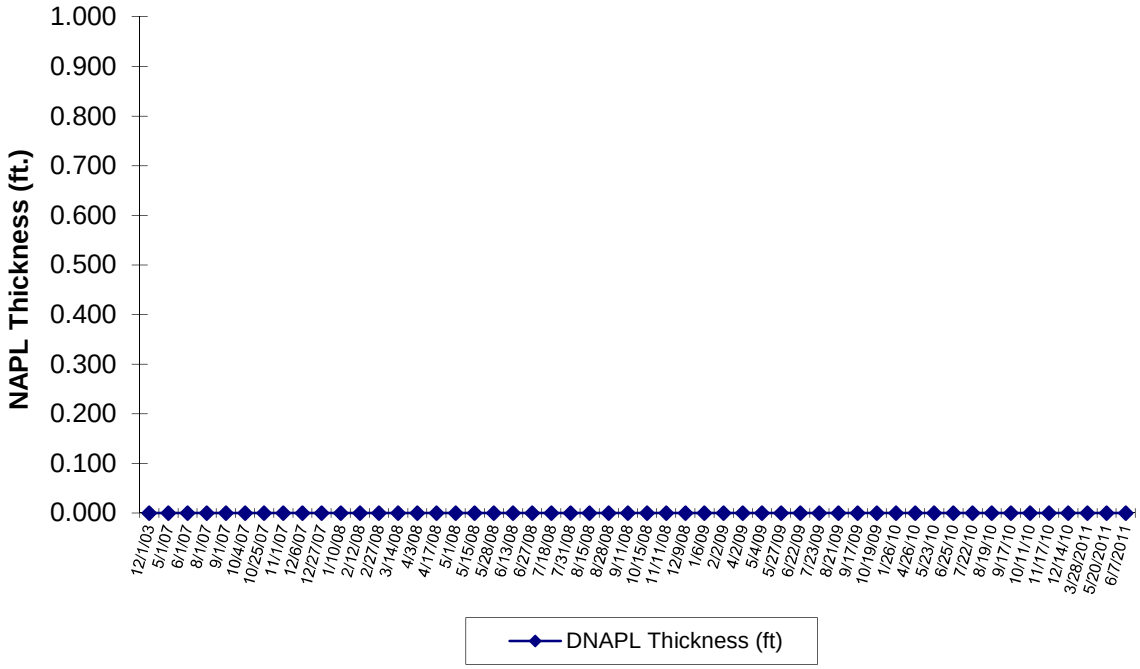
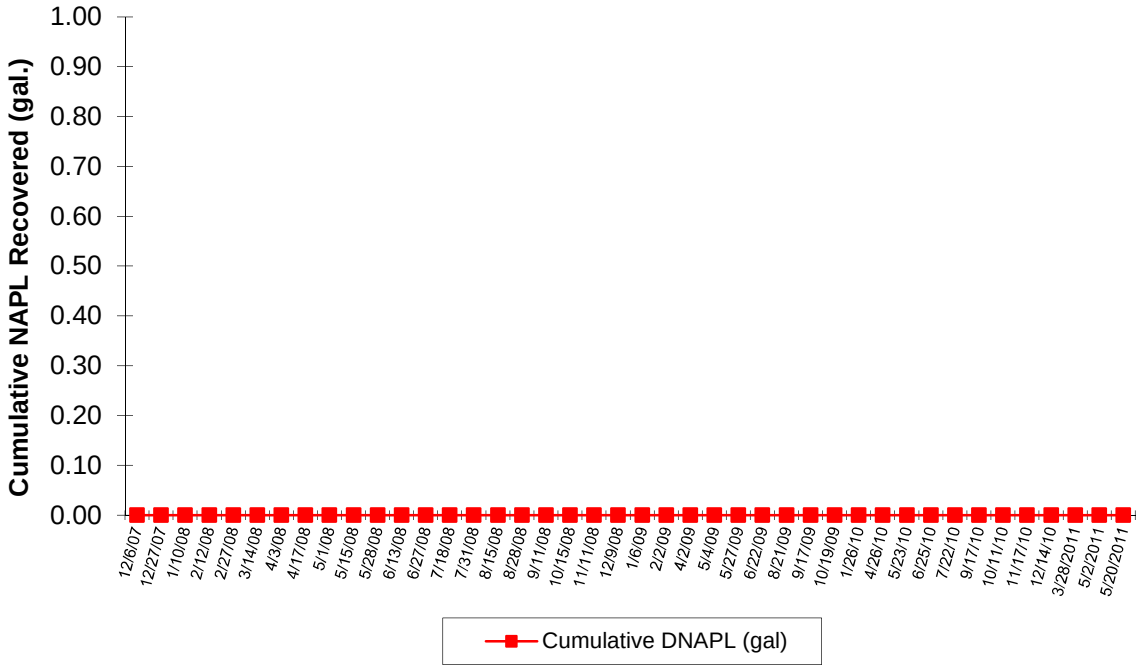


FIGURE 9G
Well HIMW-11I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



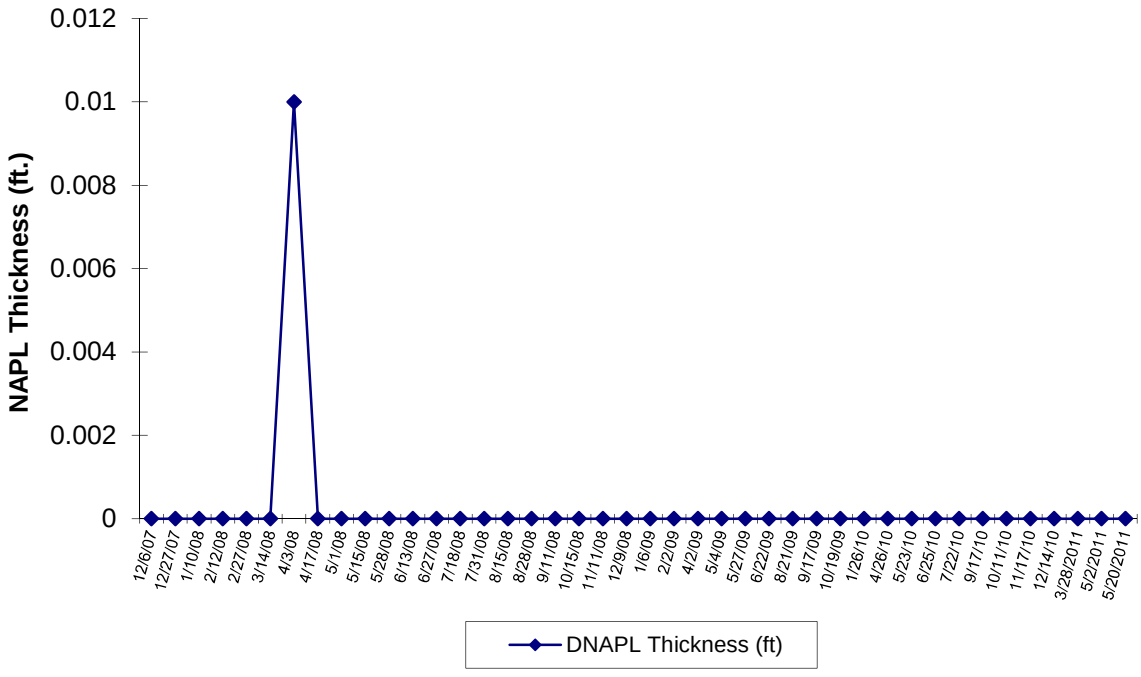
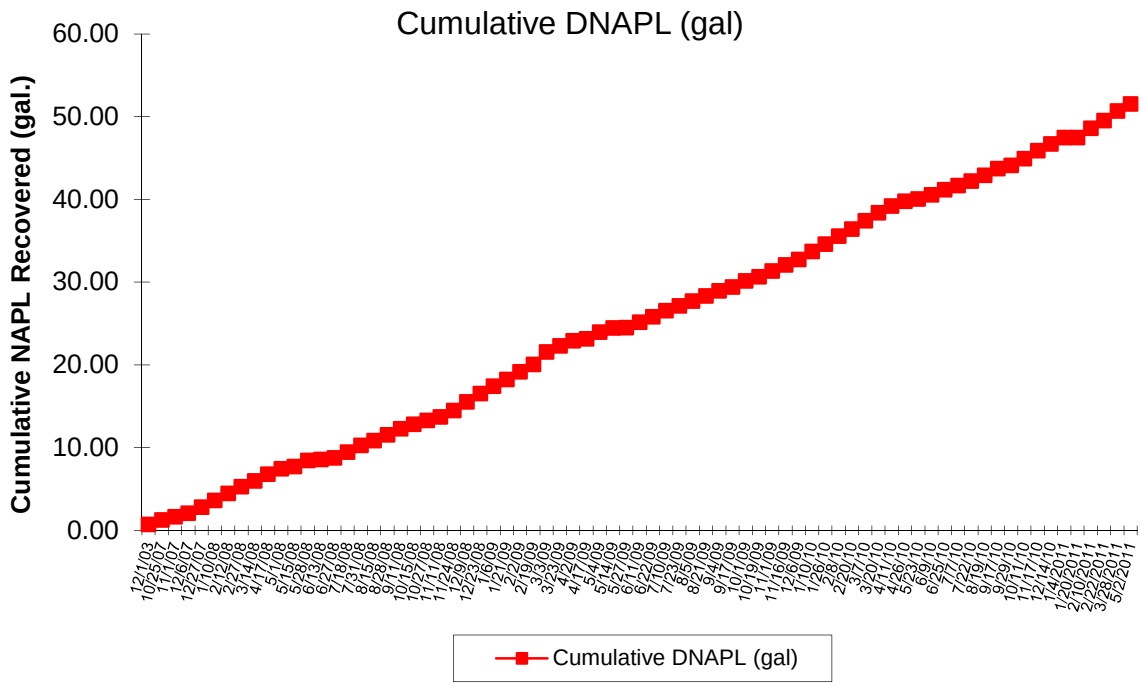


FIGURE 9H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



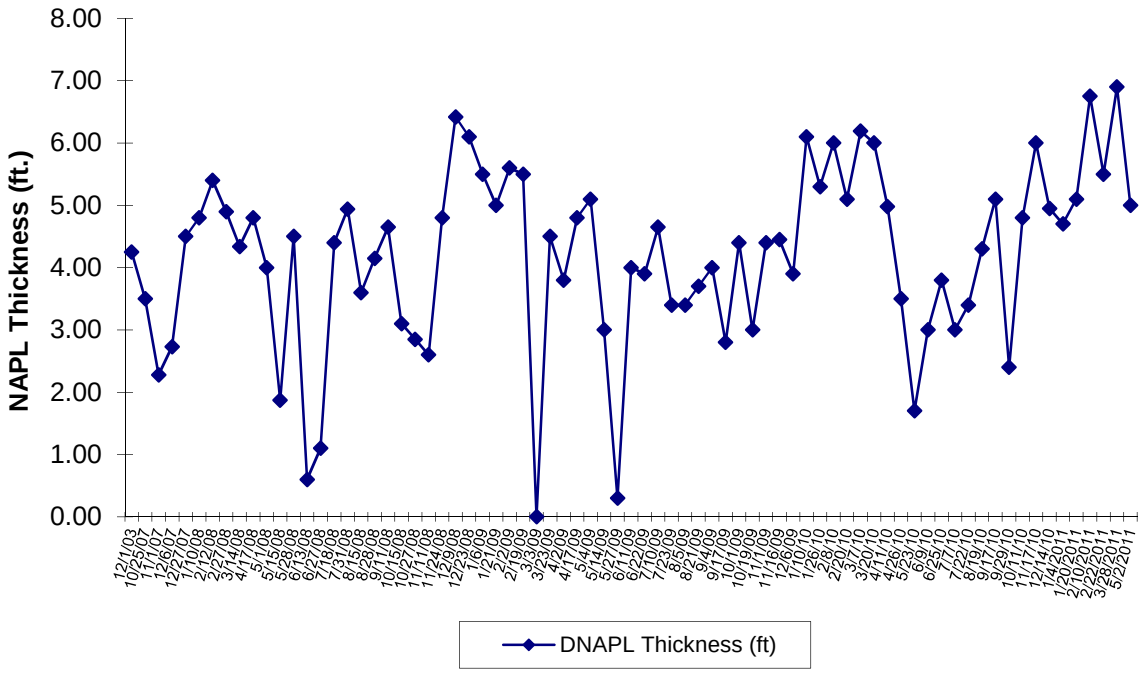
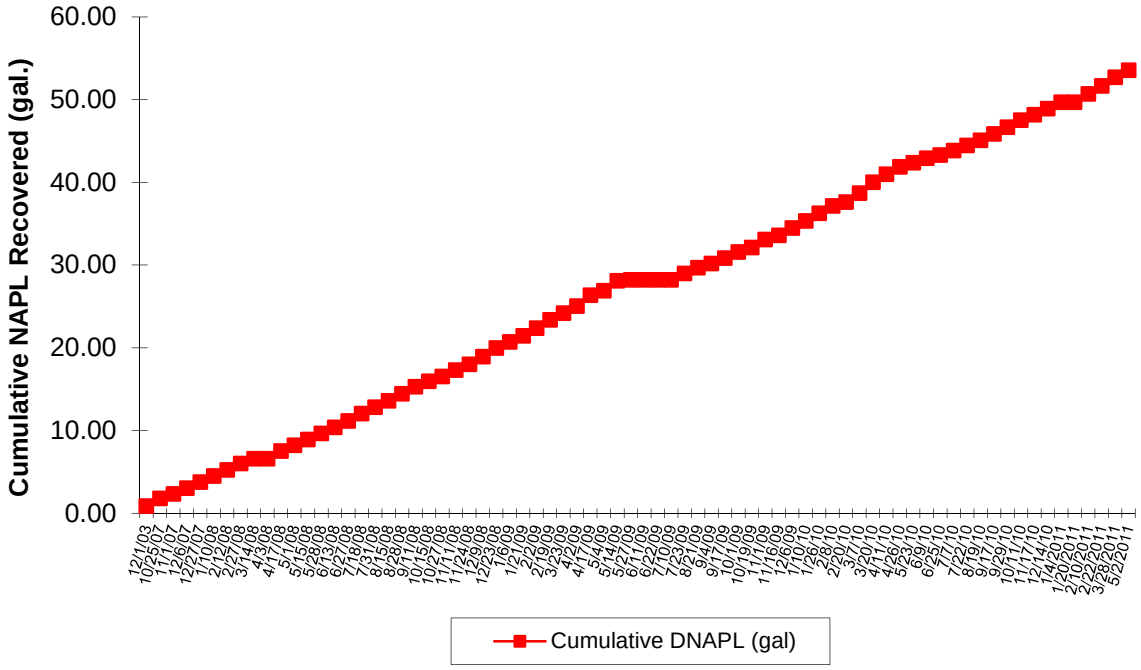


FIGURE 9I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



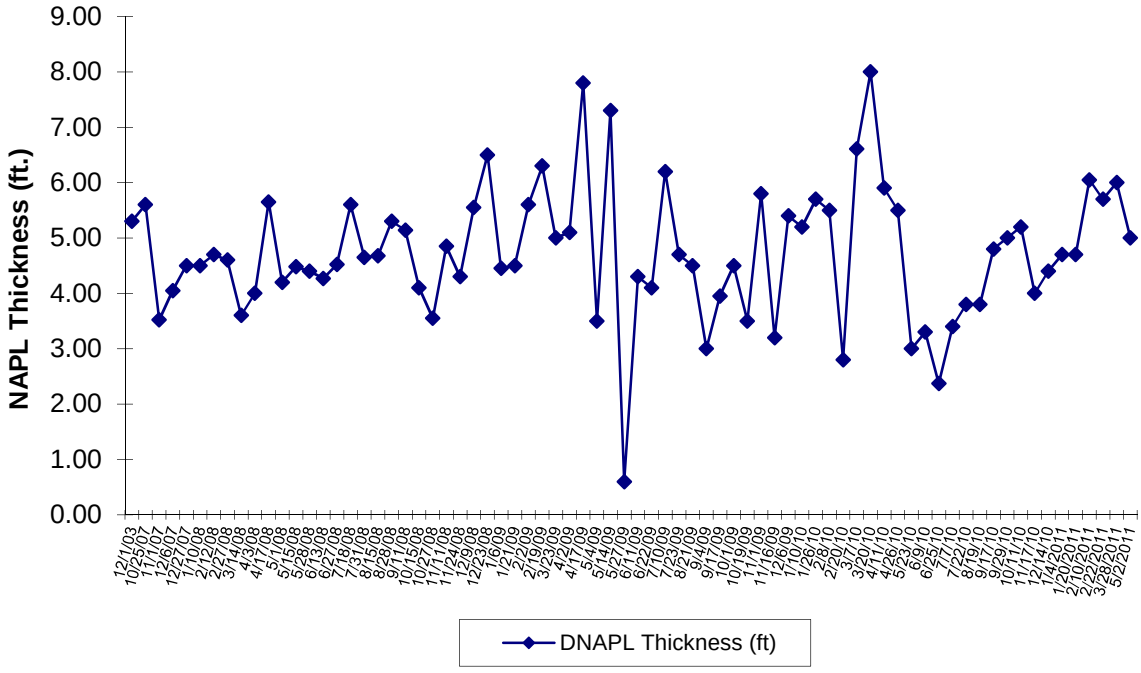
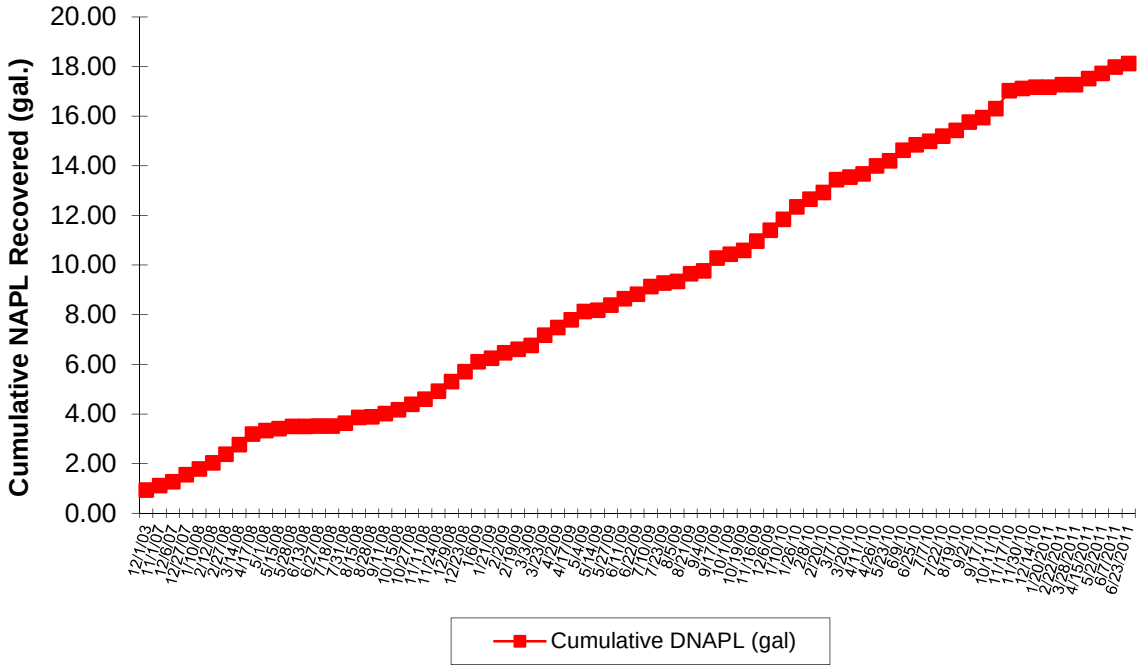


FIGURE 9J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



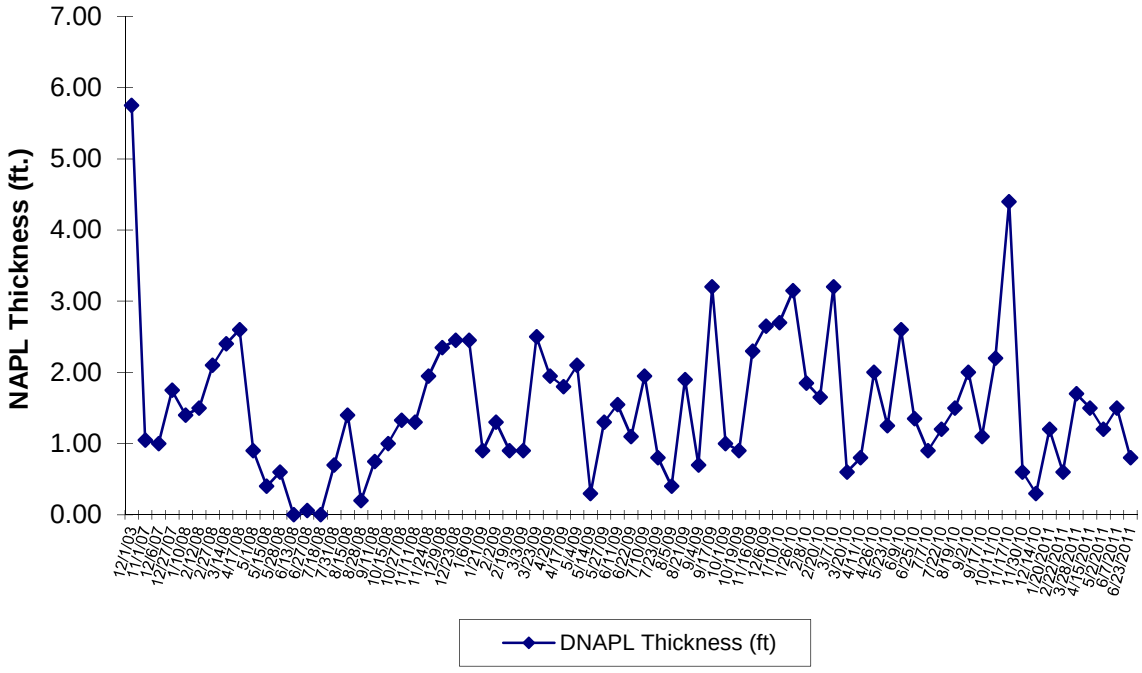
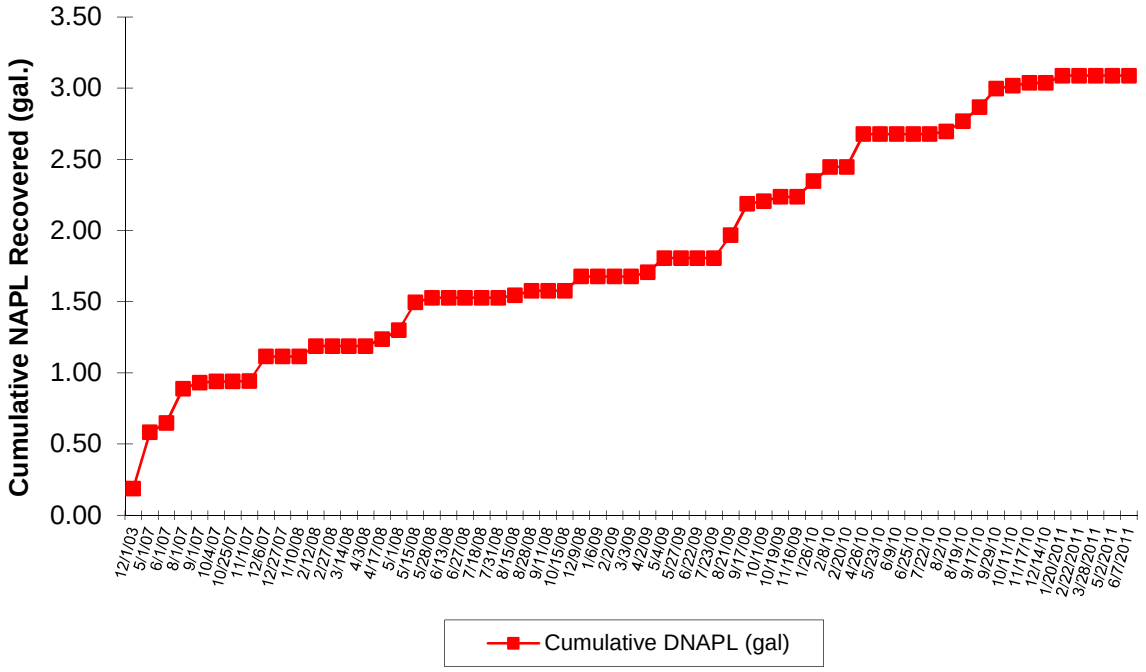


FIGURE 9K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



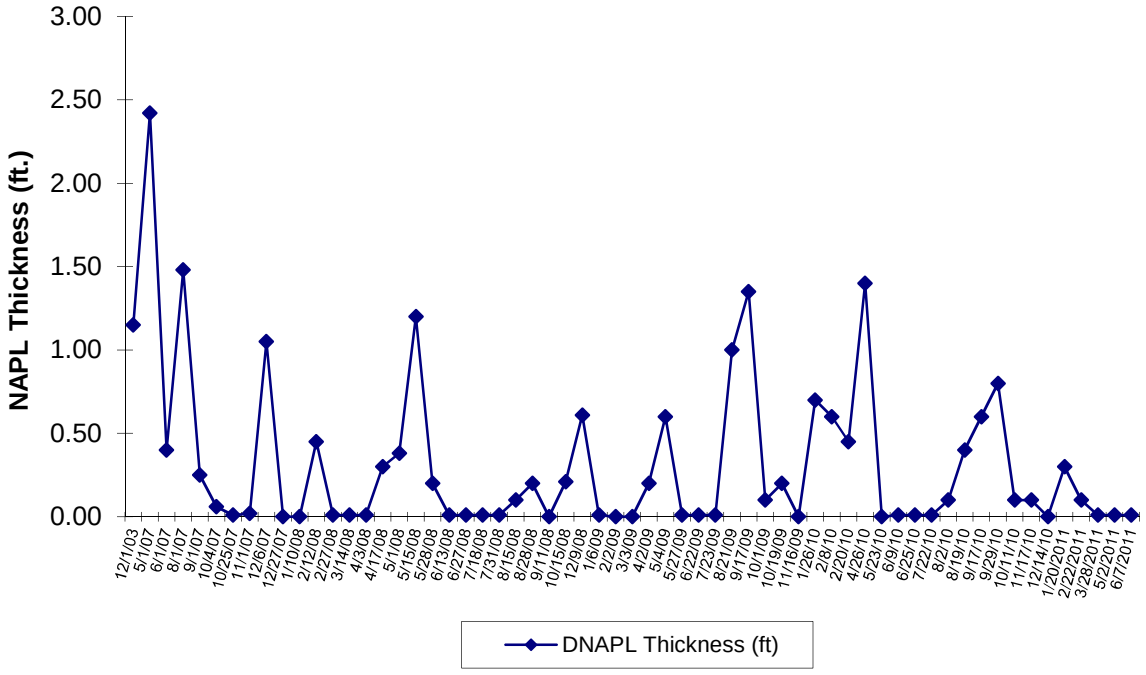
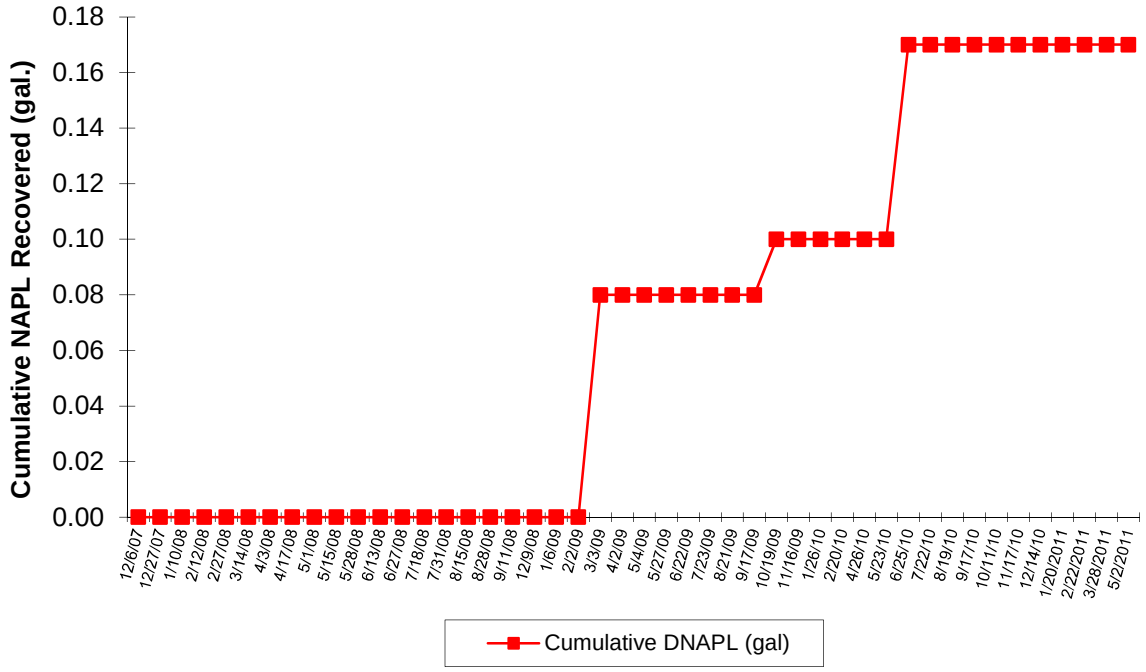


FIGURE 9L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



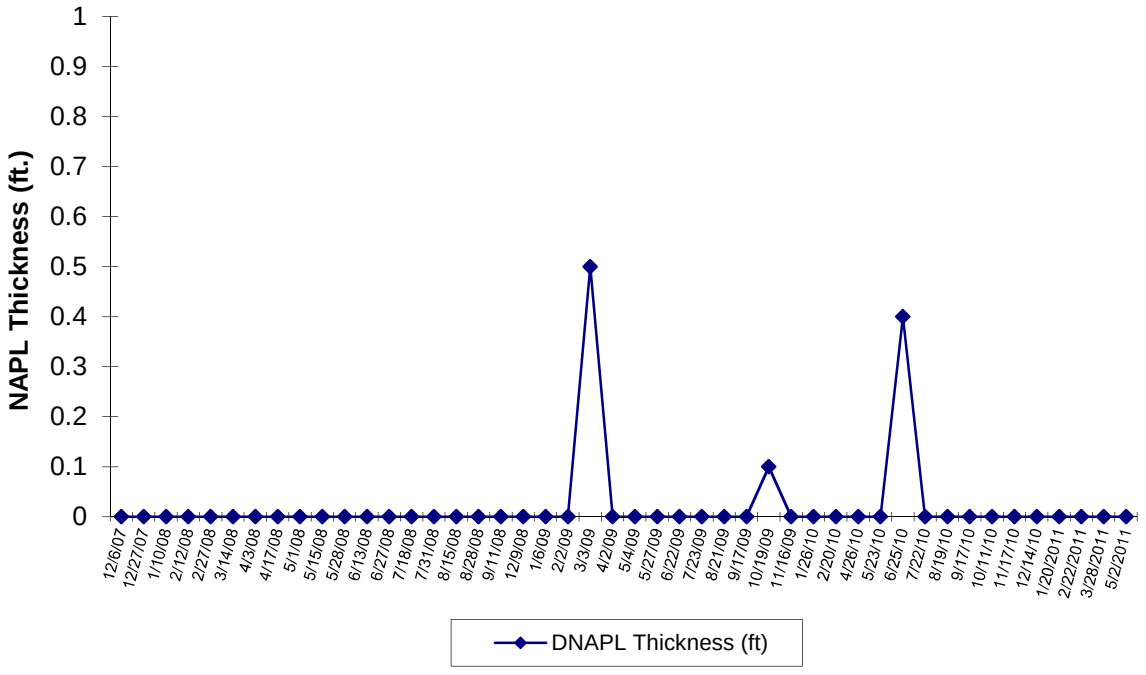
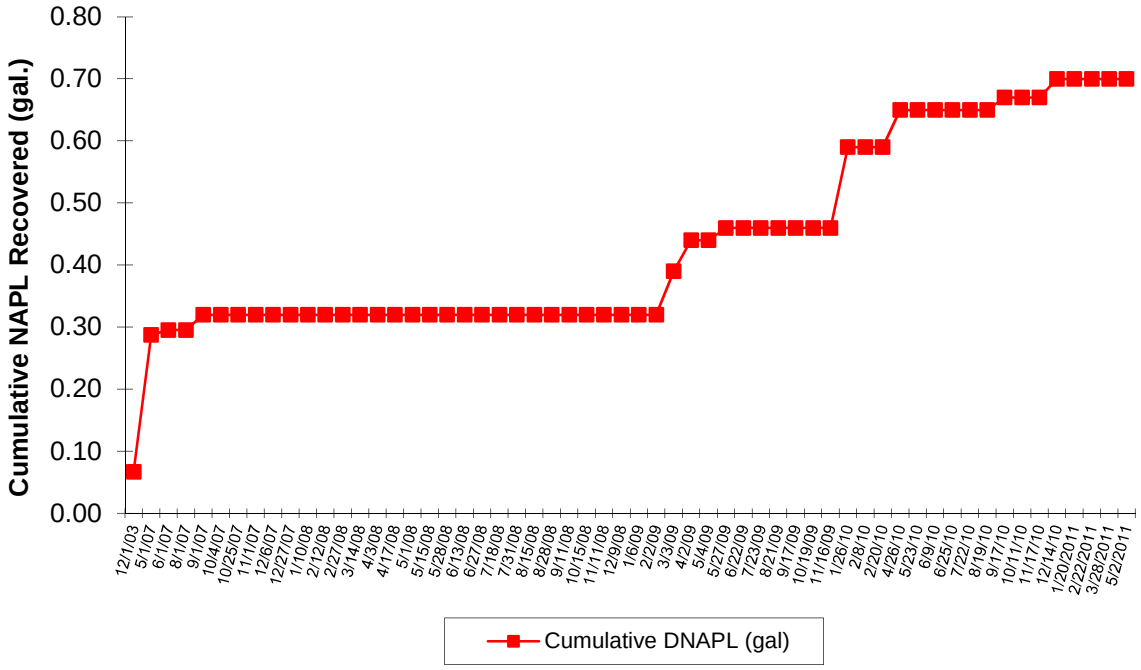


FIGURE 9M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



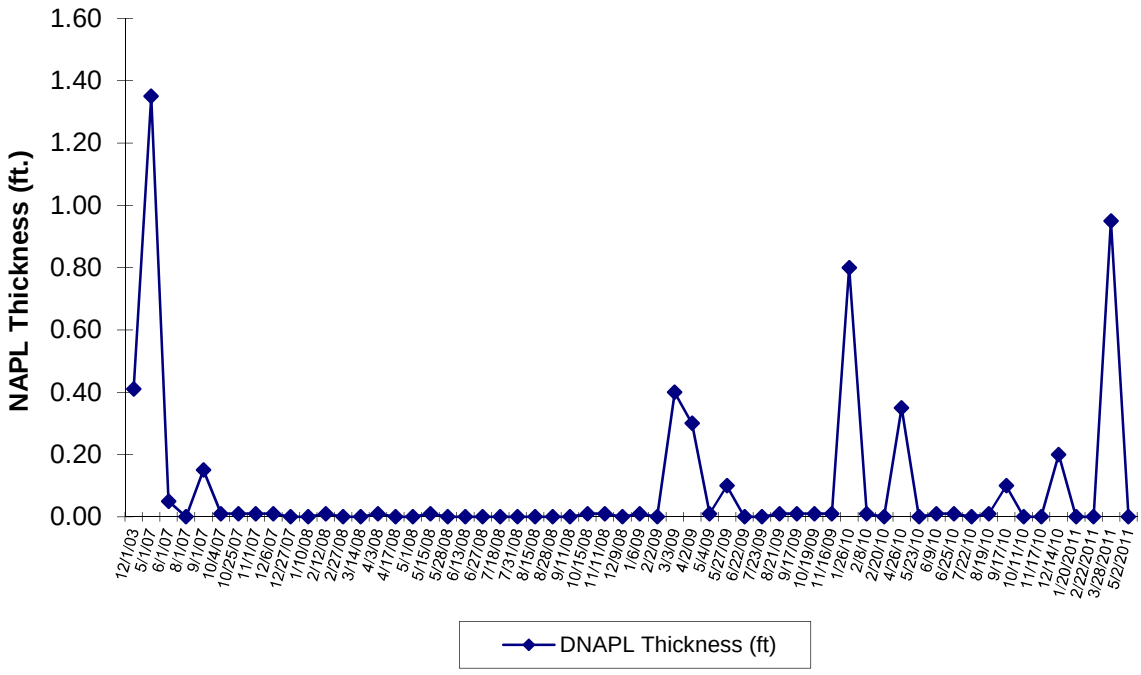
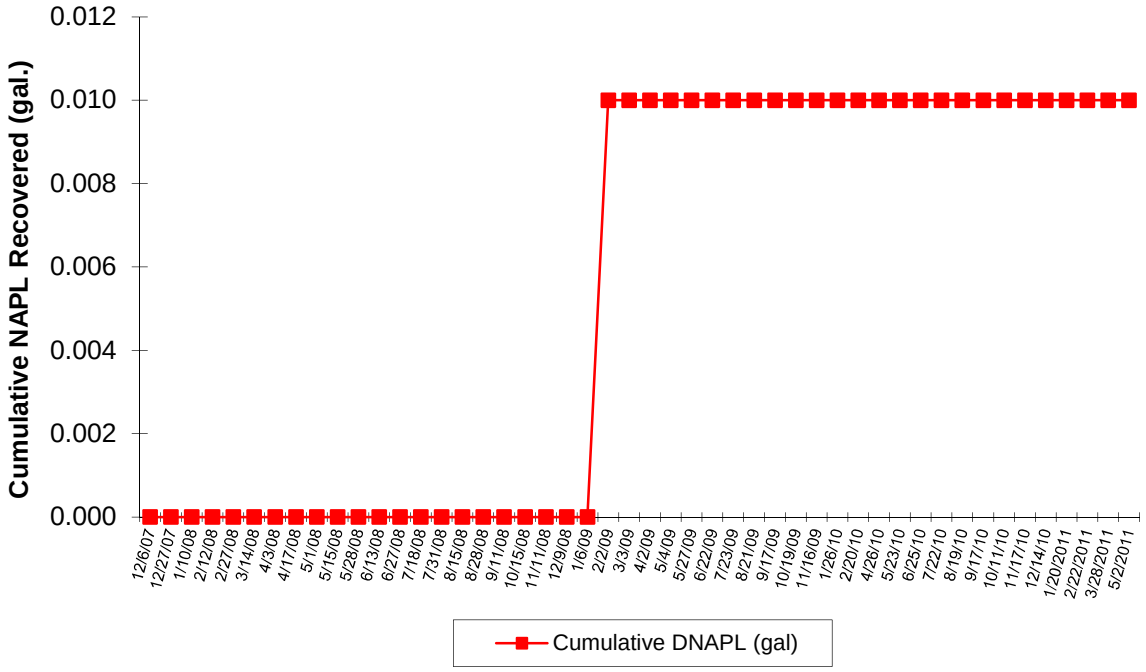


FIGURE 9N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



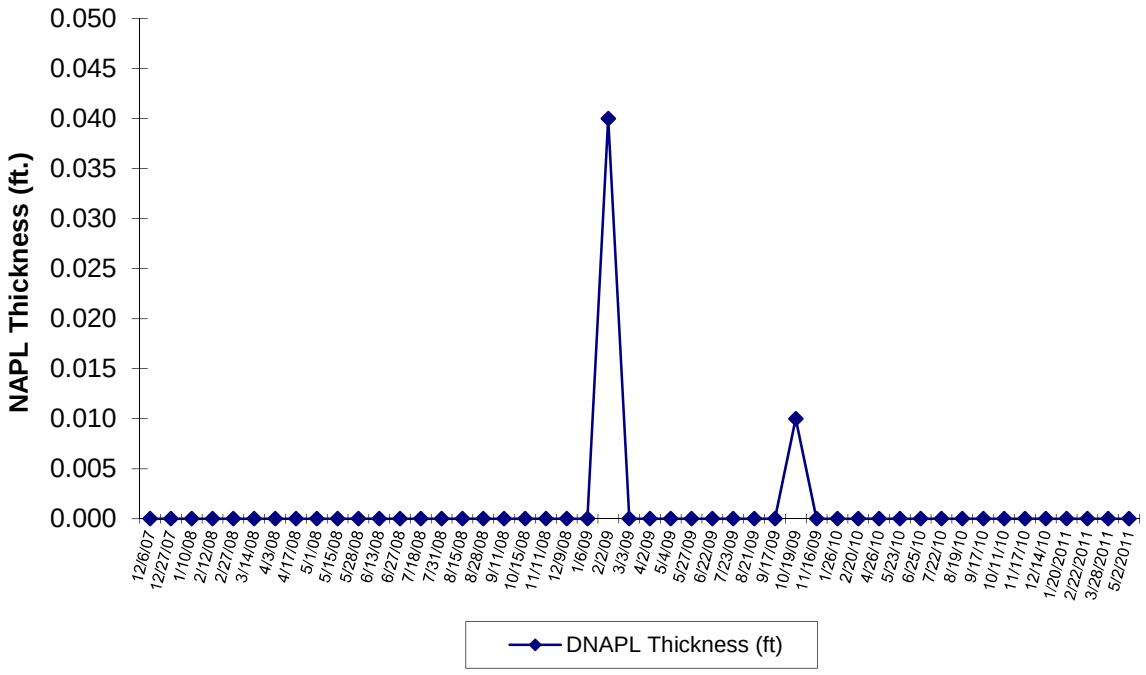
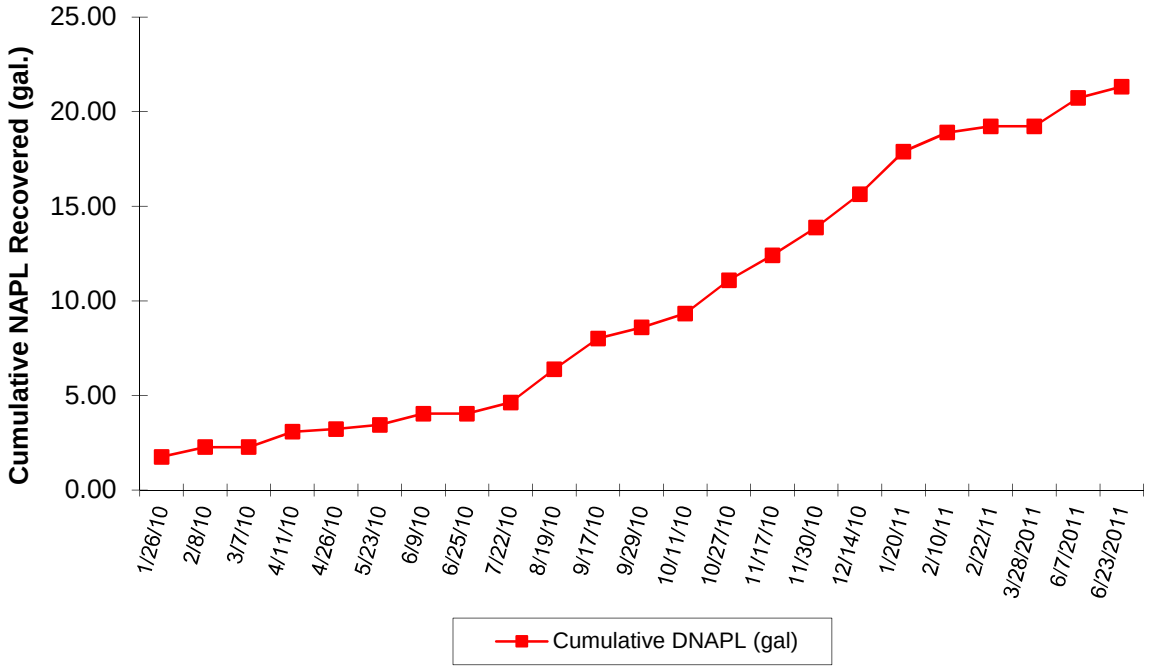


FIGURE 9O
Well HIMW-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



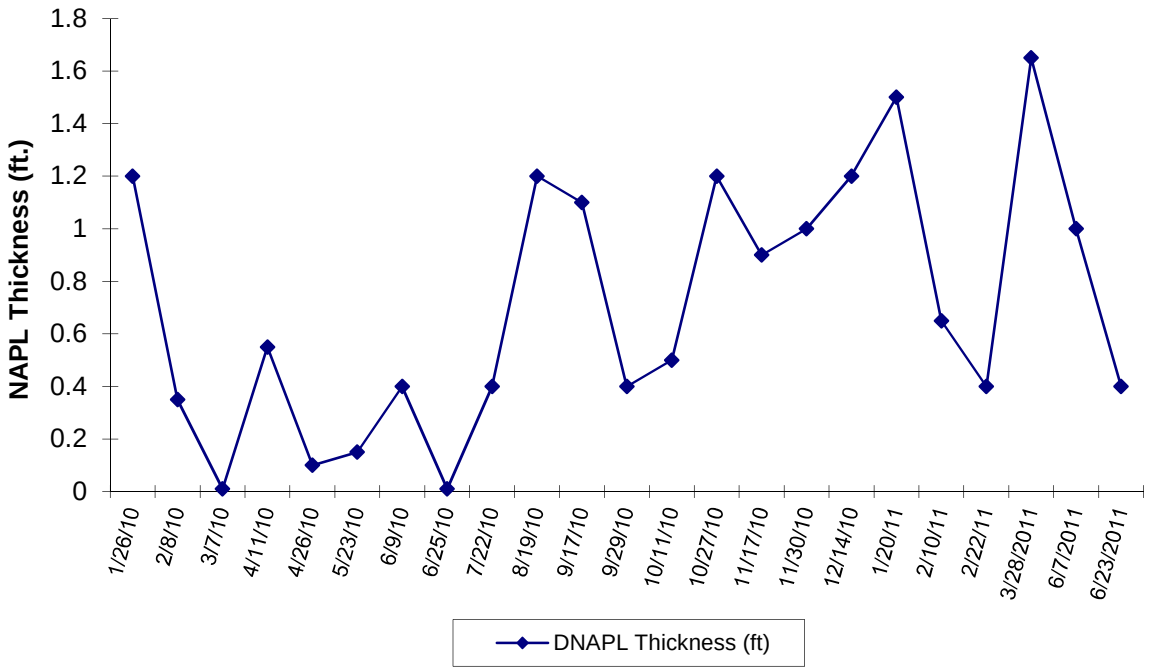
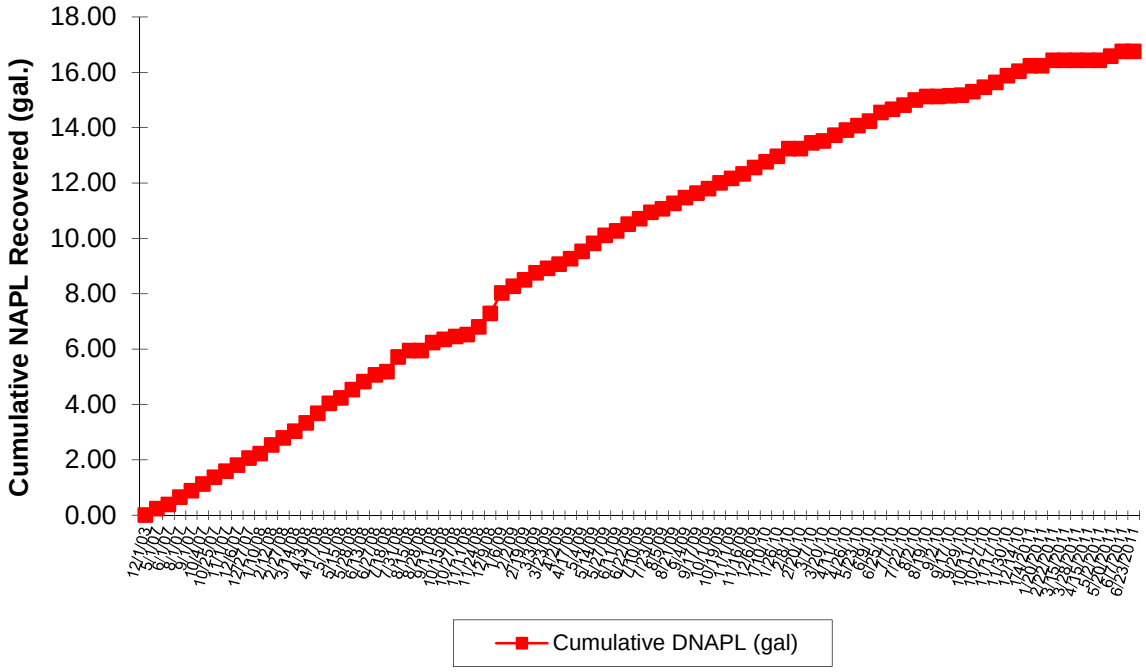


FIGURE 9P
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



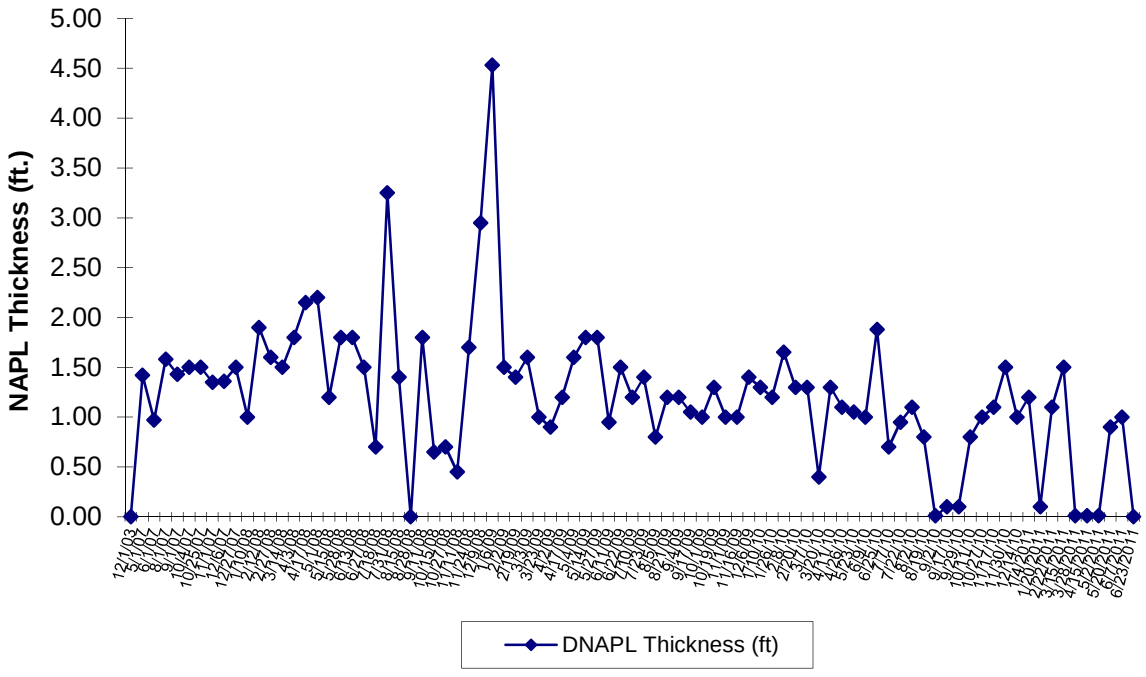
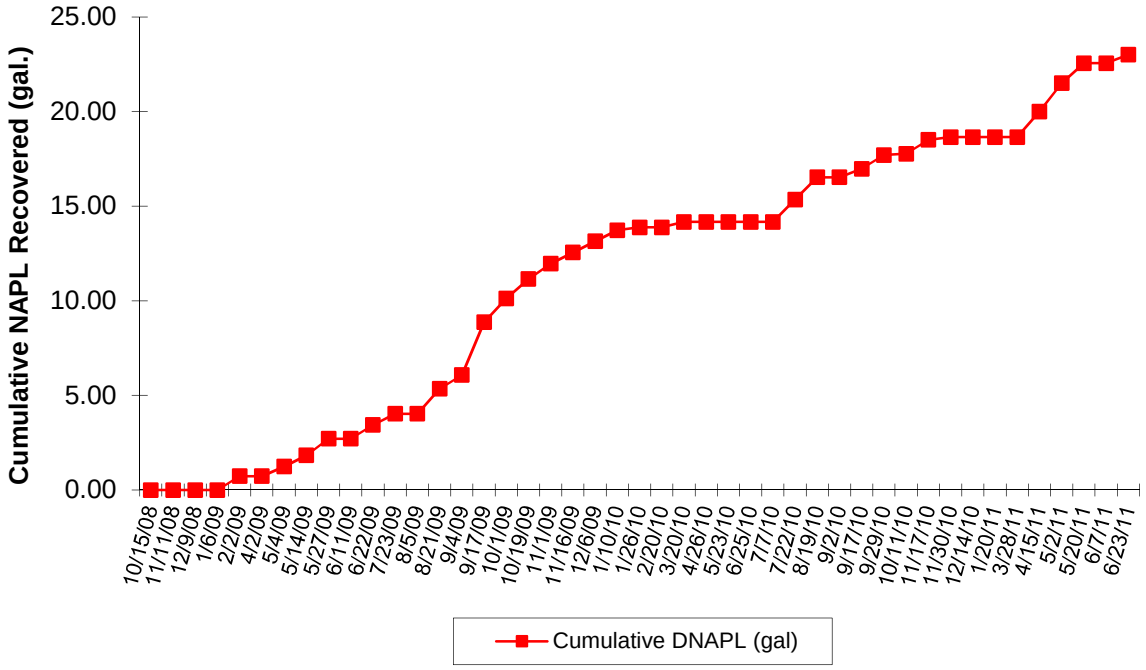


FIGURE 9Q
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



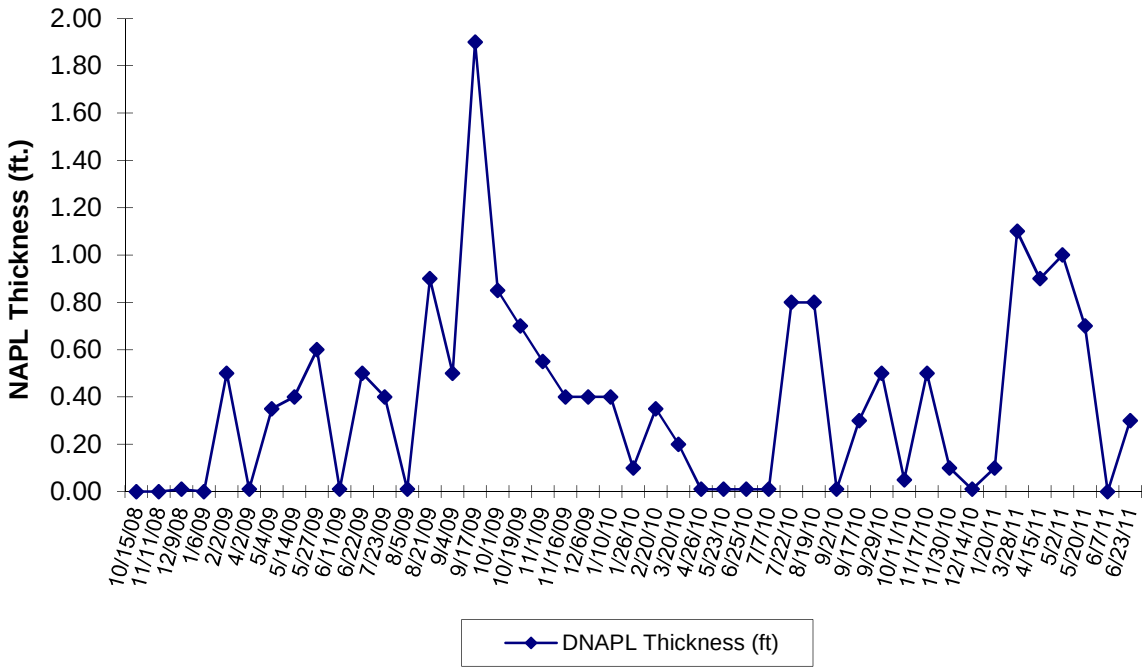
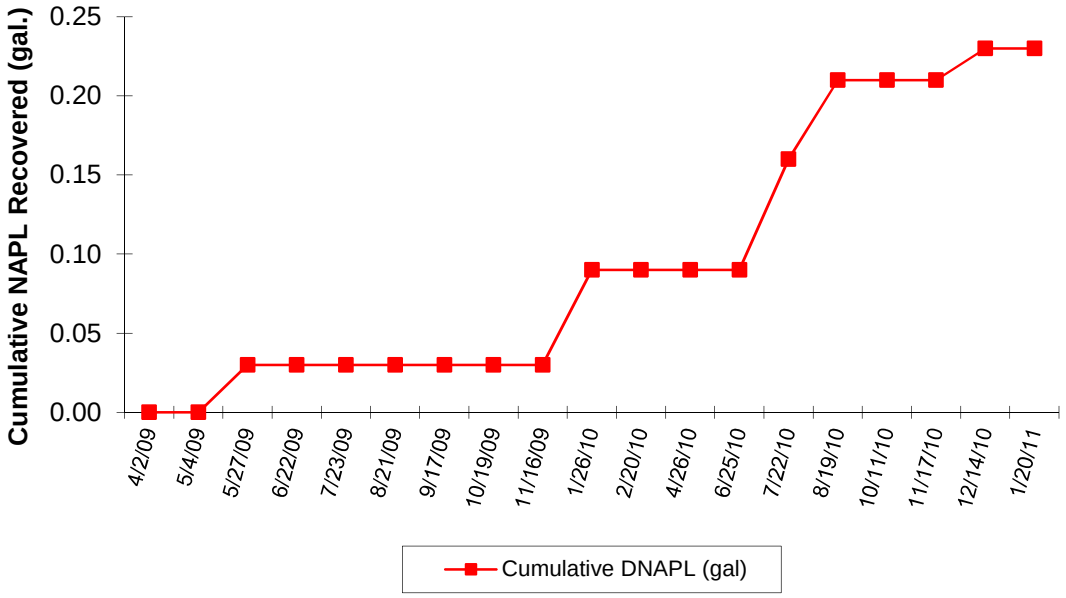


FIGURE 9R
Well IPR-05 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



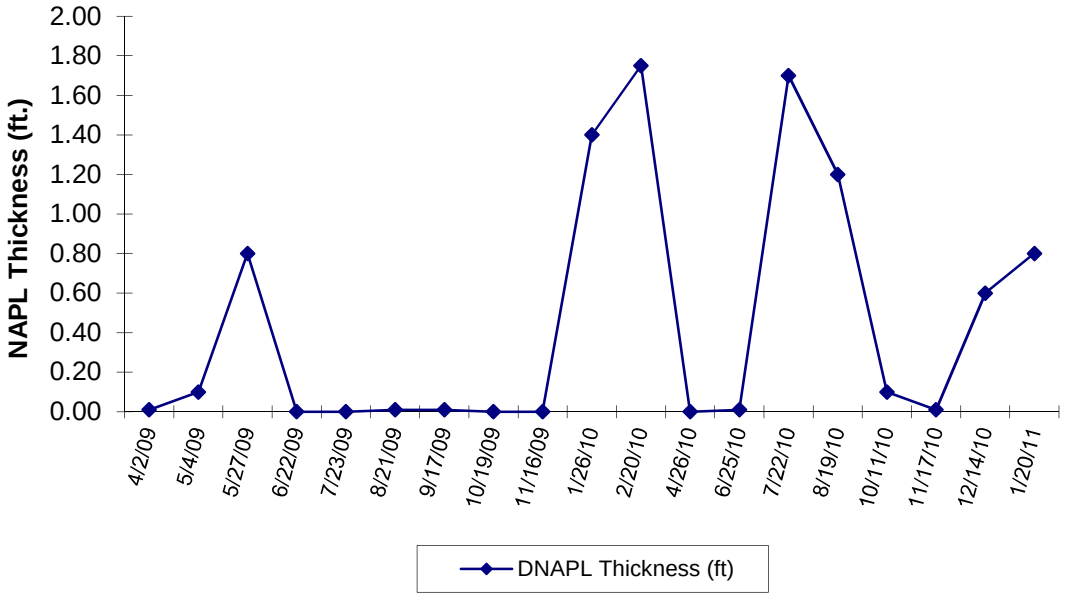
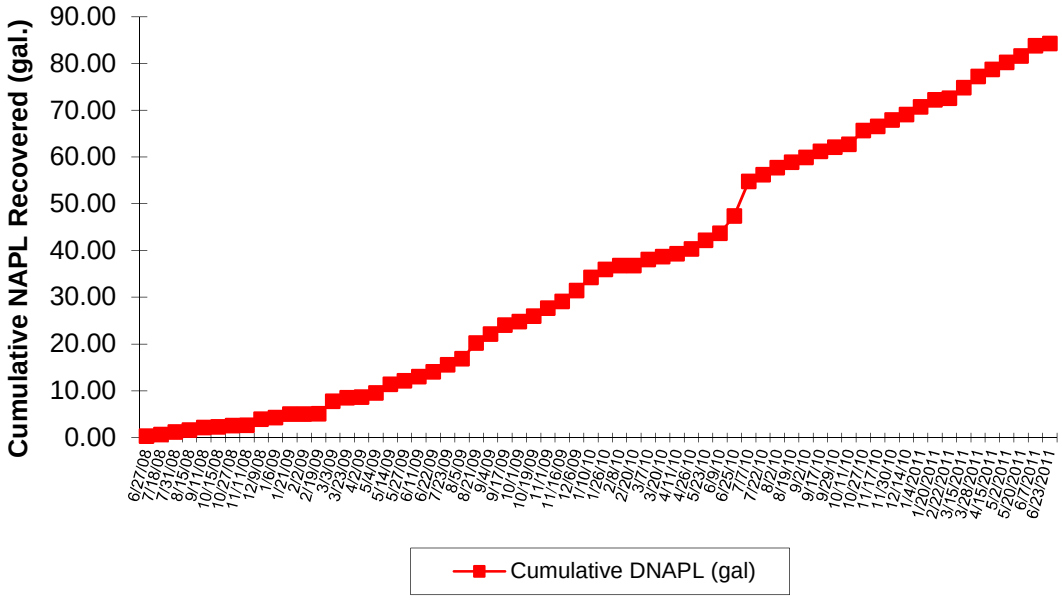


FIGURE 9S
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



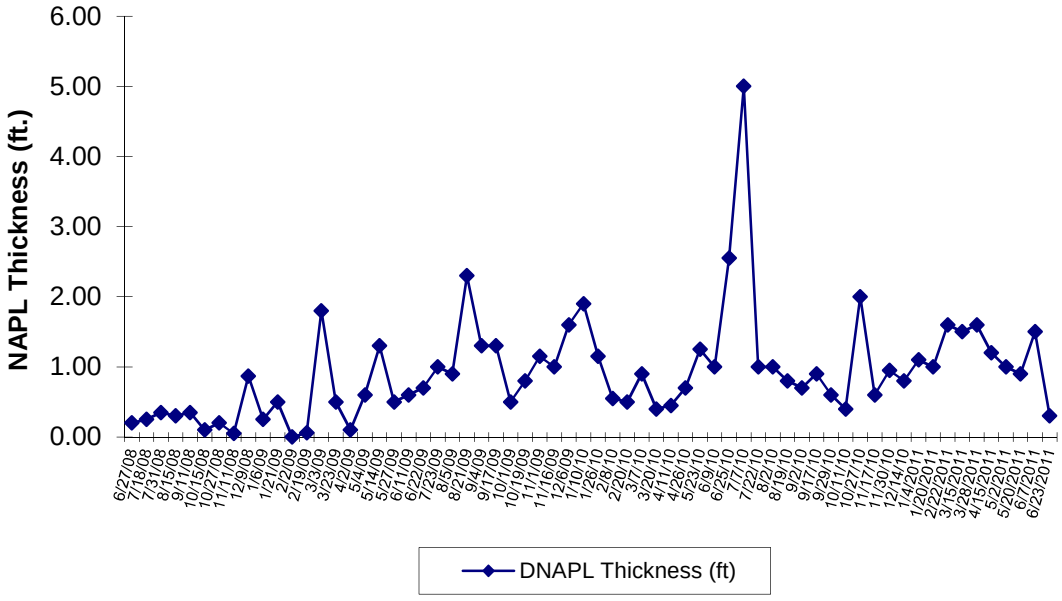
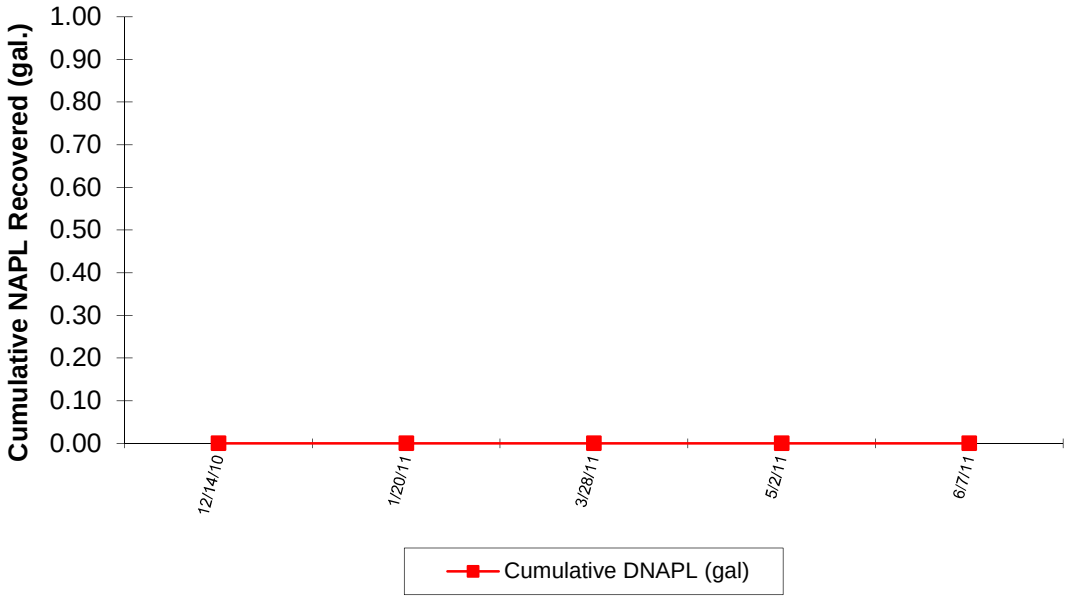


FIGURE 9T
Well IPR-07 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



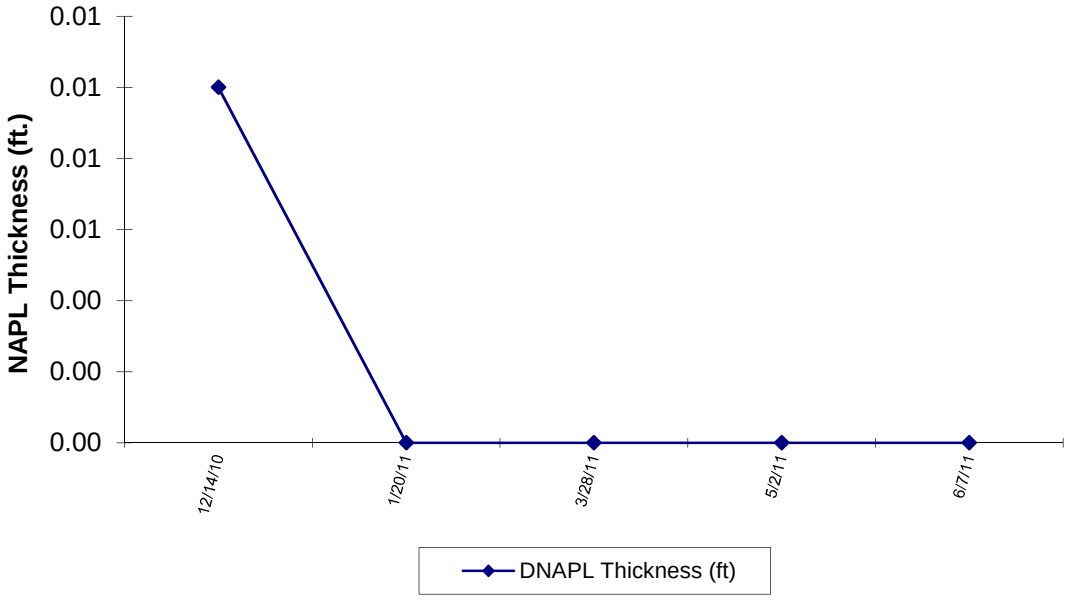
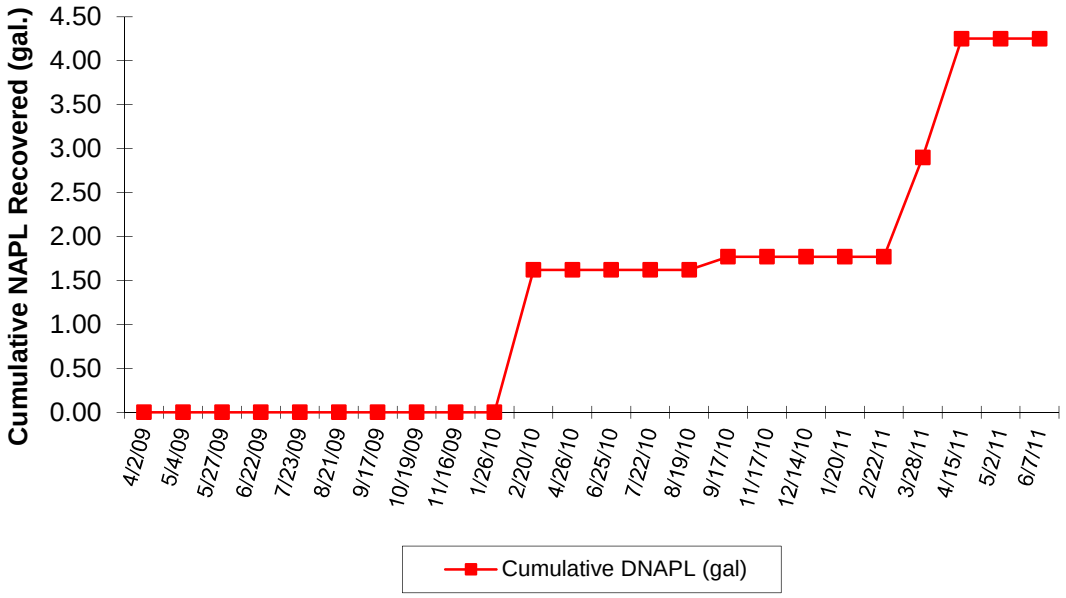


FIGURE 9U
Well IPR-09 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



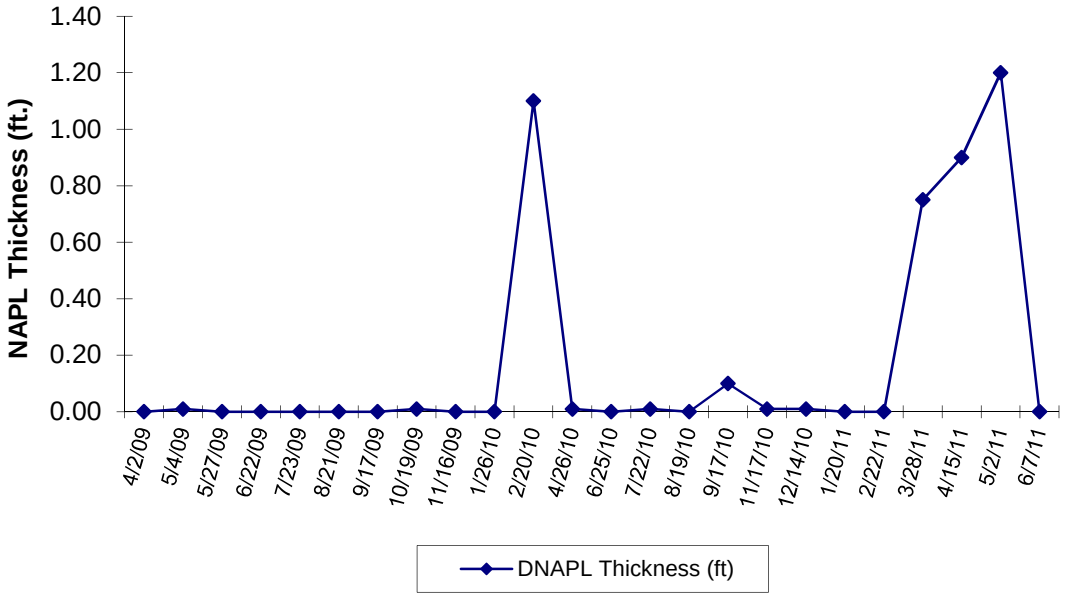
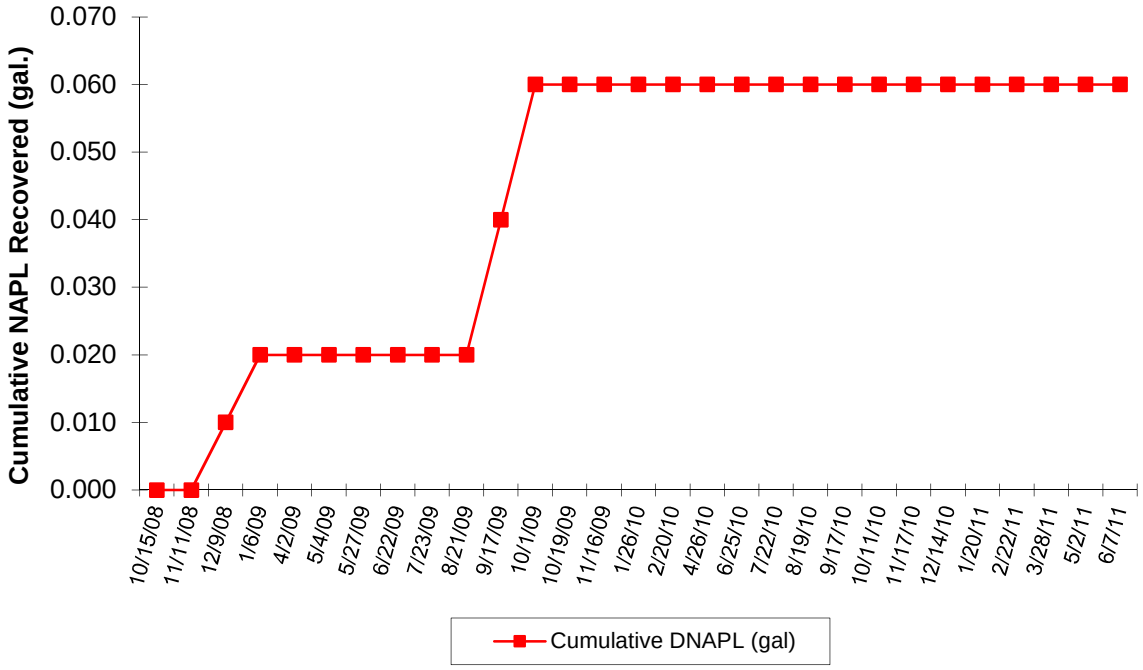


FIGURE 9V
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



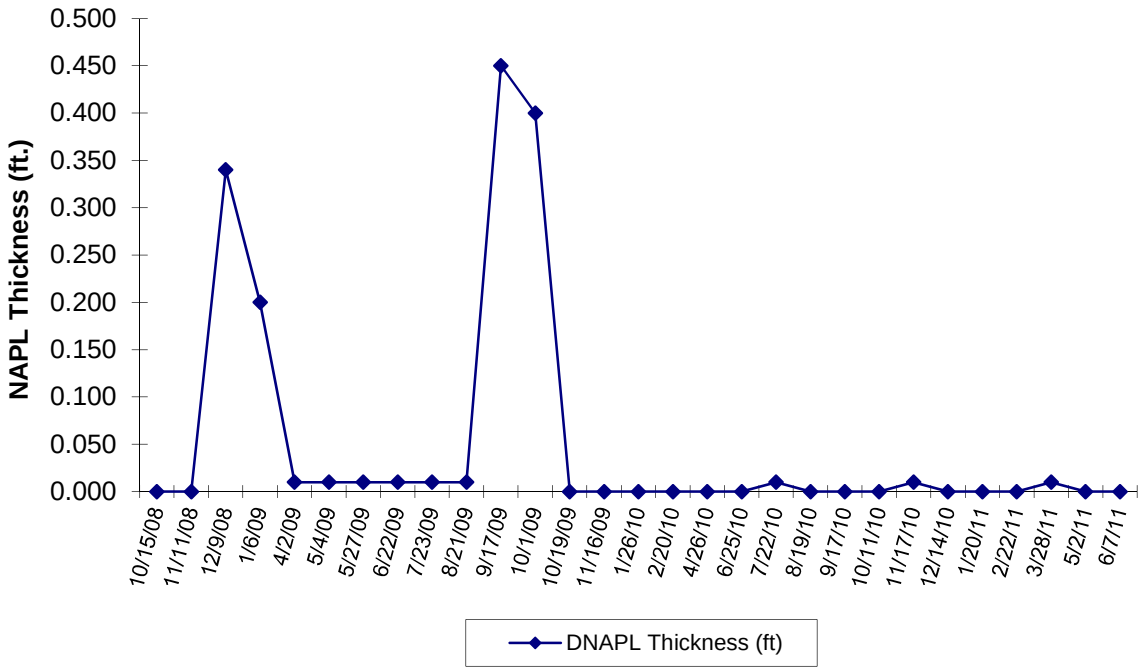
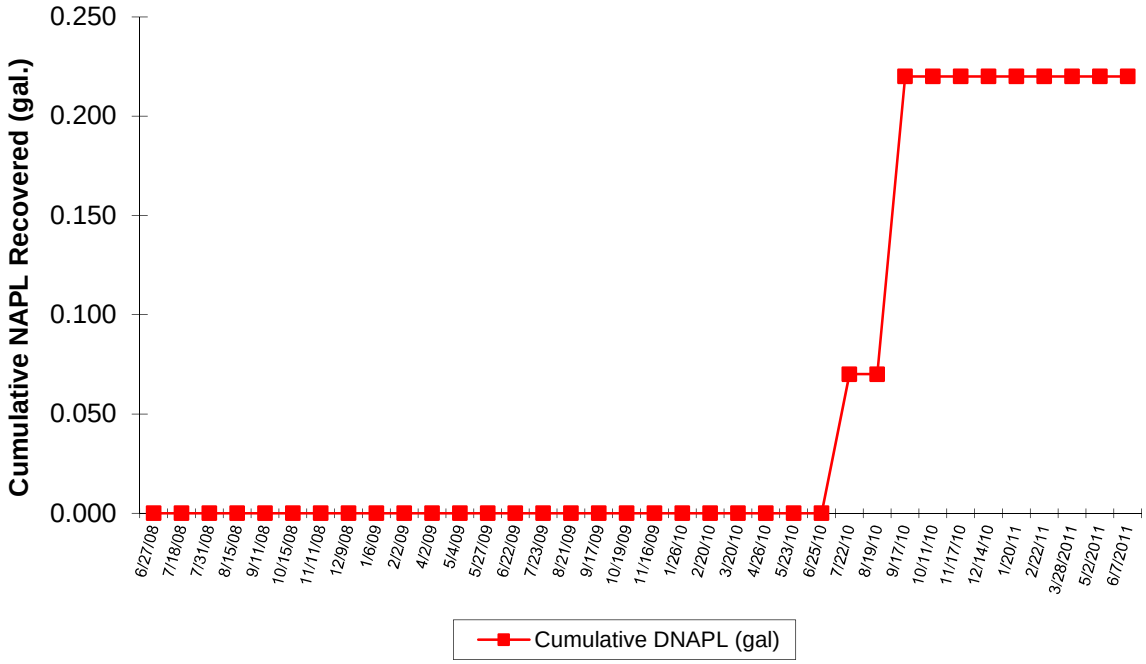


FIGURE 9W
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



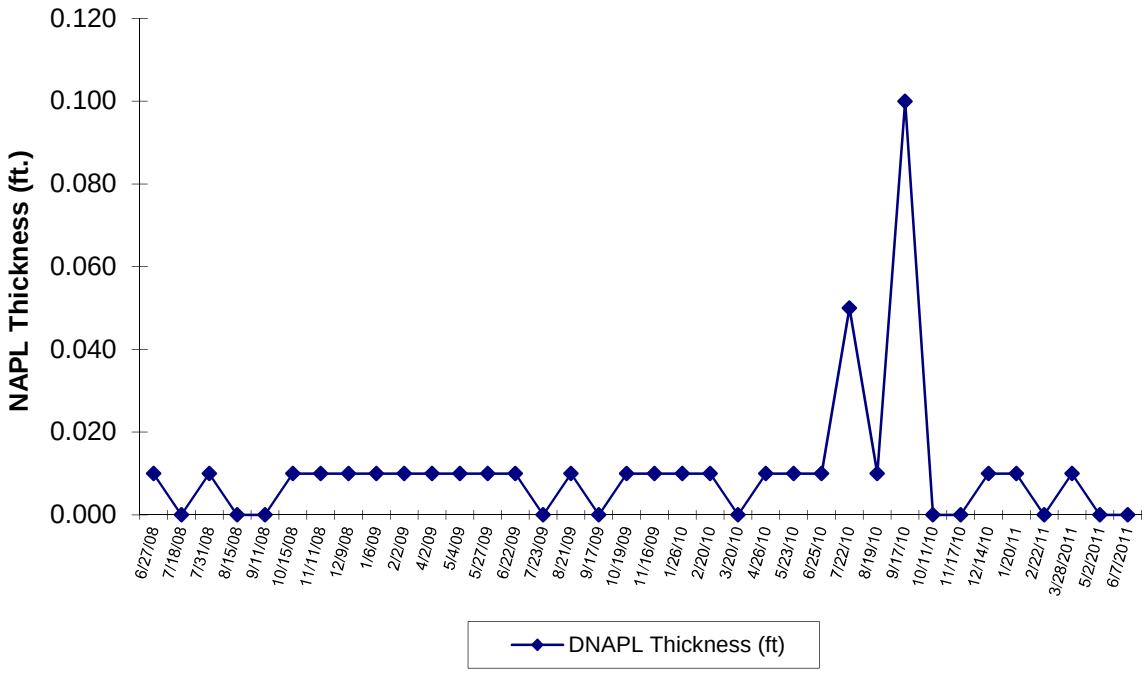
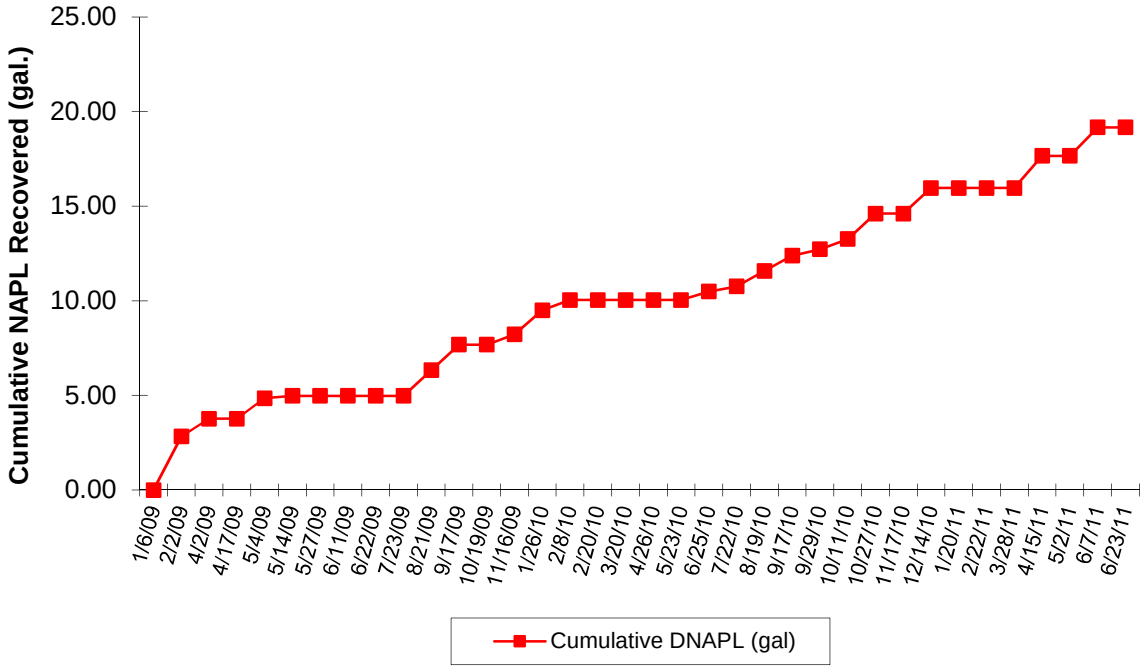


FIGURE 9X
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



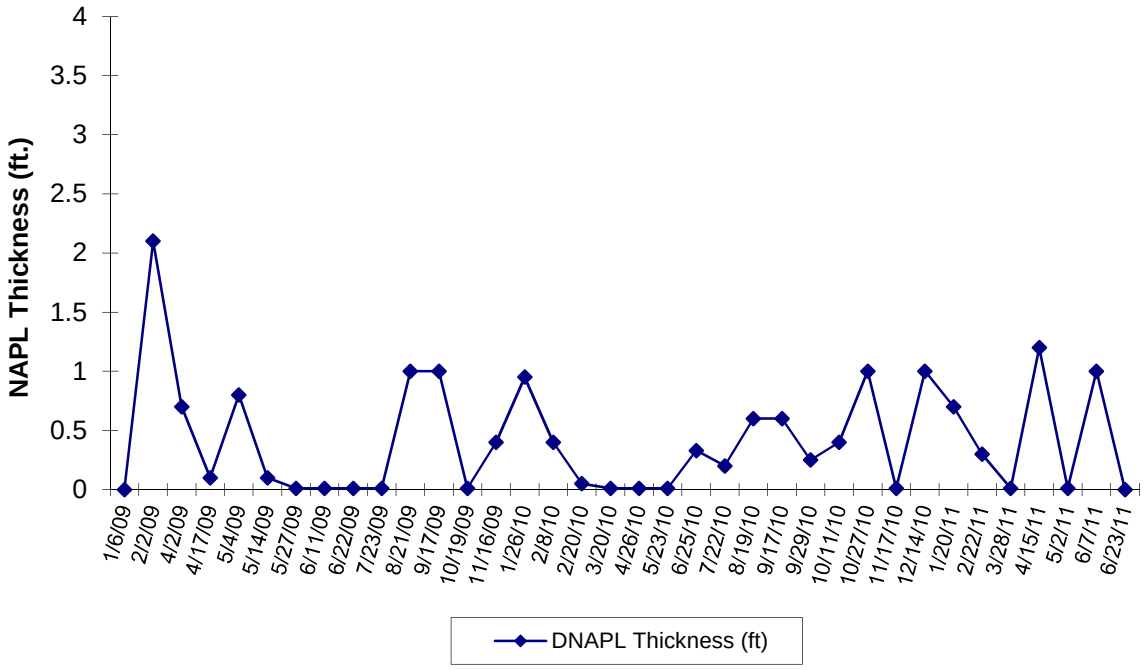
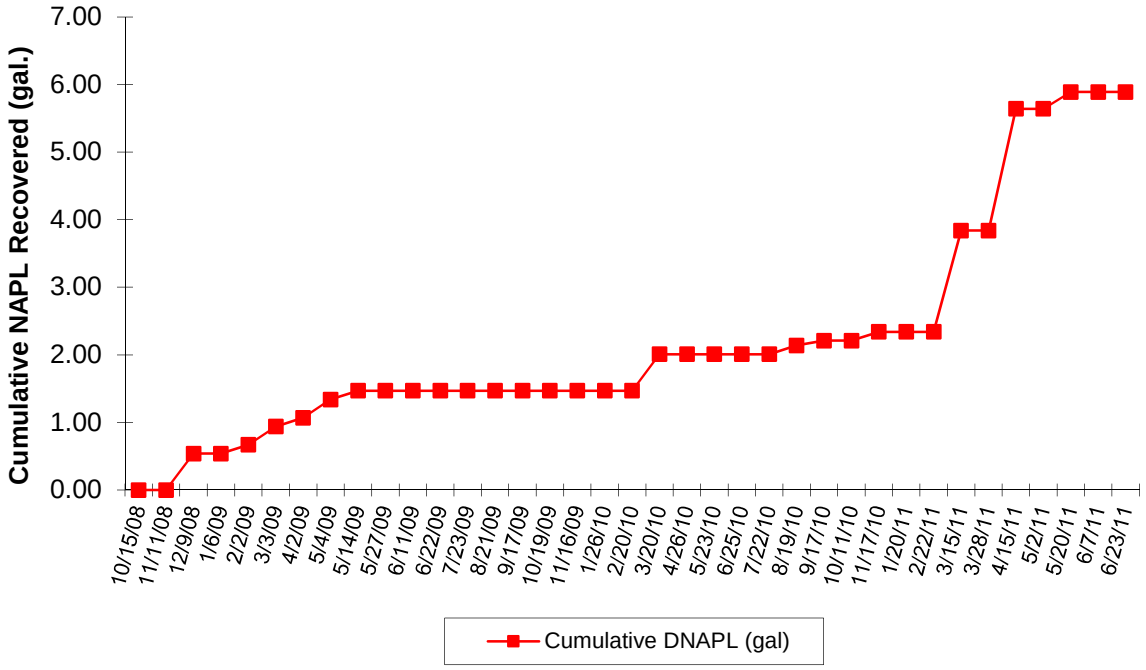


FIGURE 9Y
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



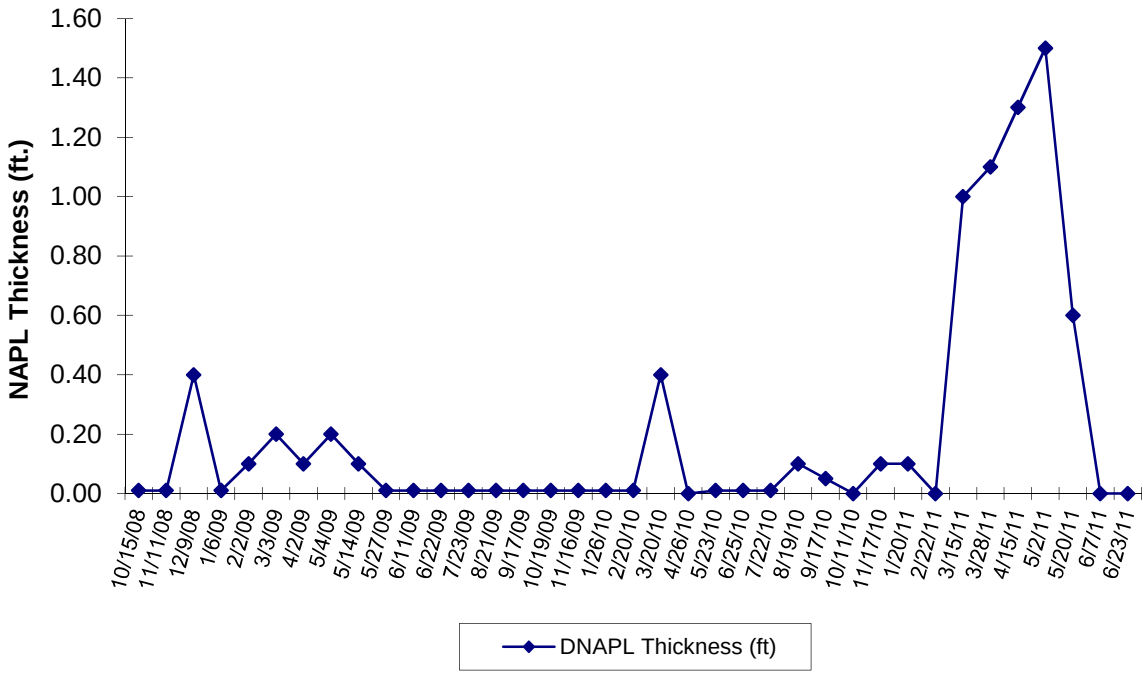
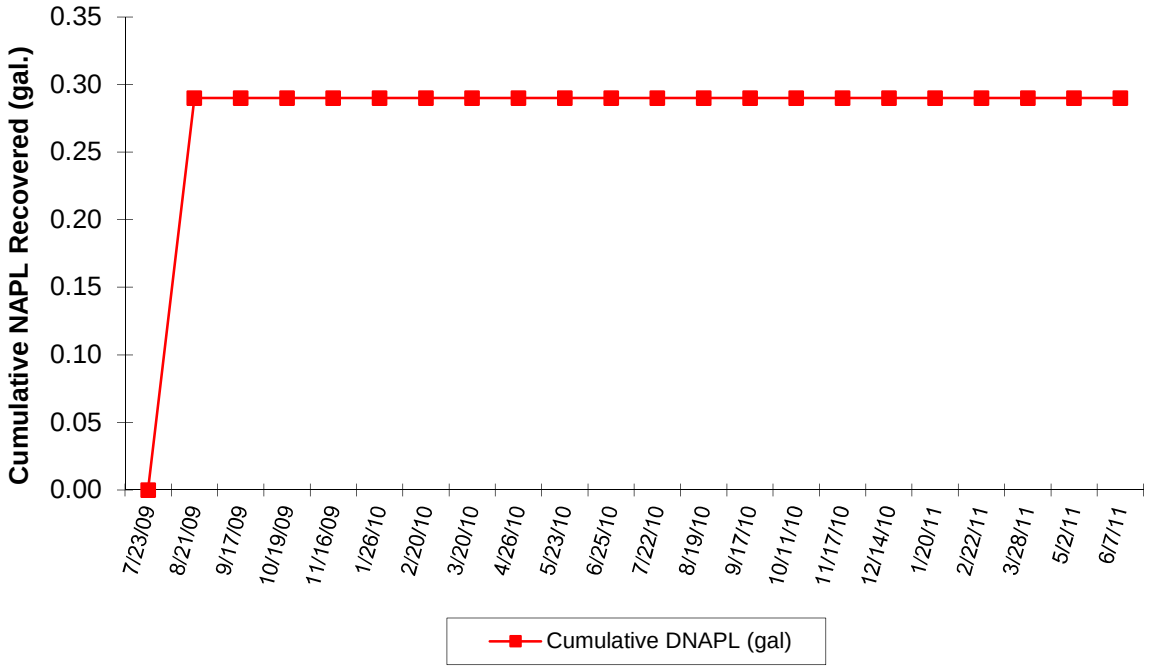


FIGURE 9Z
Well IPR-18 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



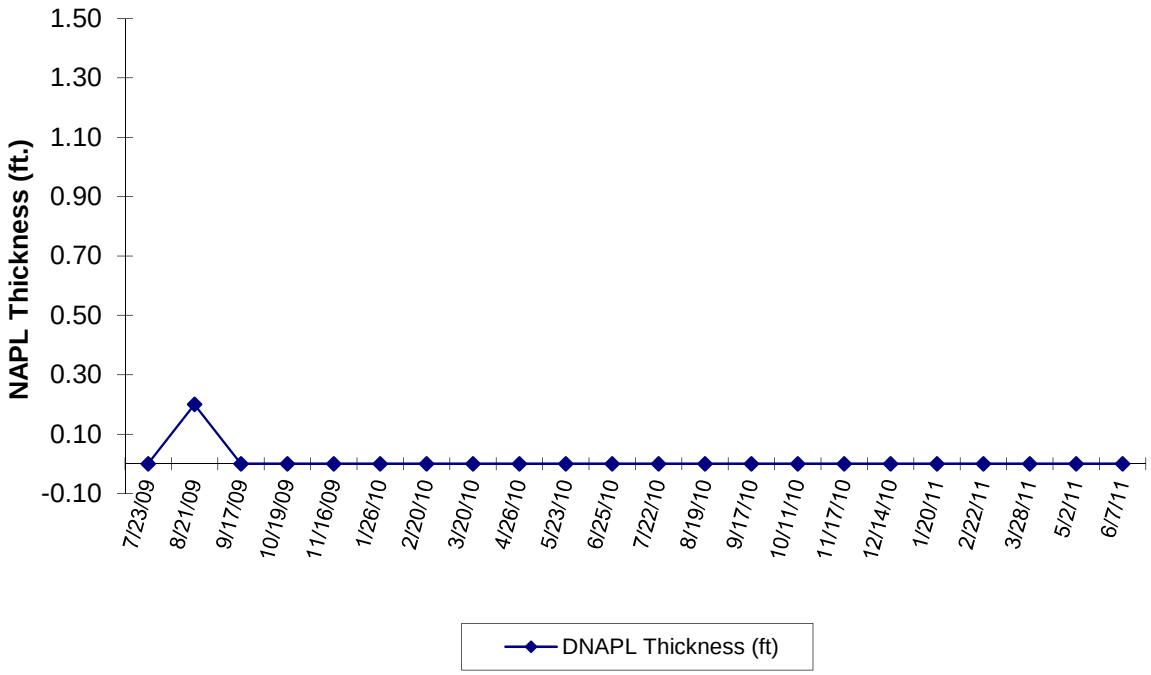
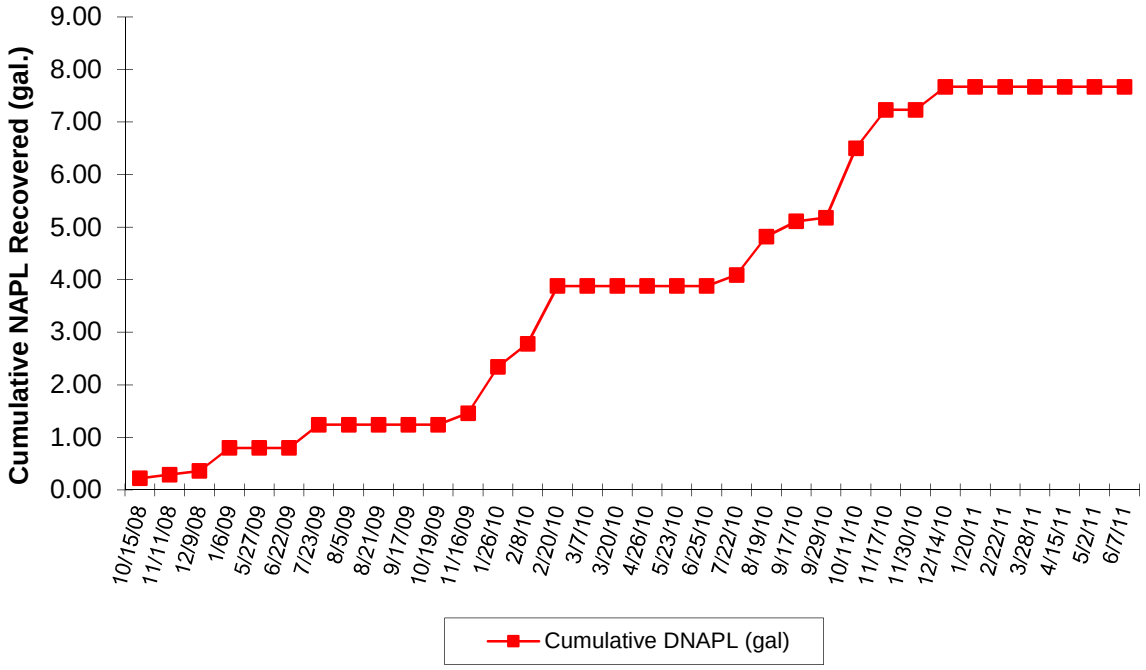


FIGURE 9AA
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



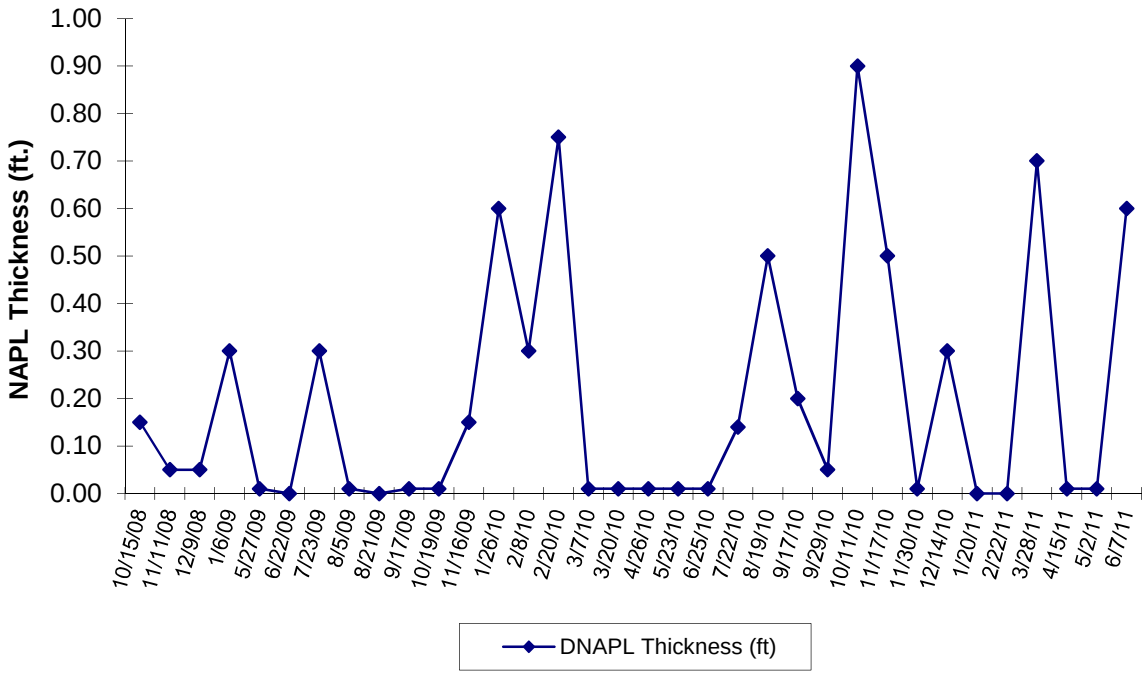
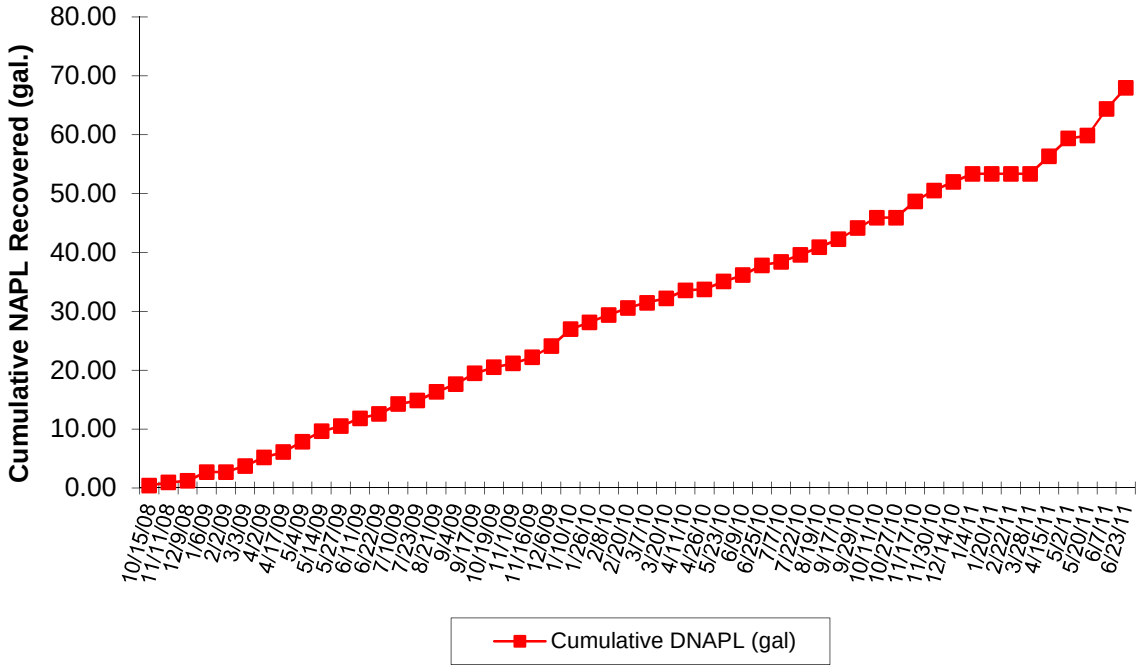


FIGURE 9AB
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



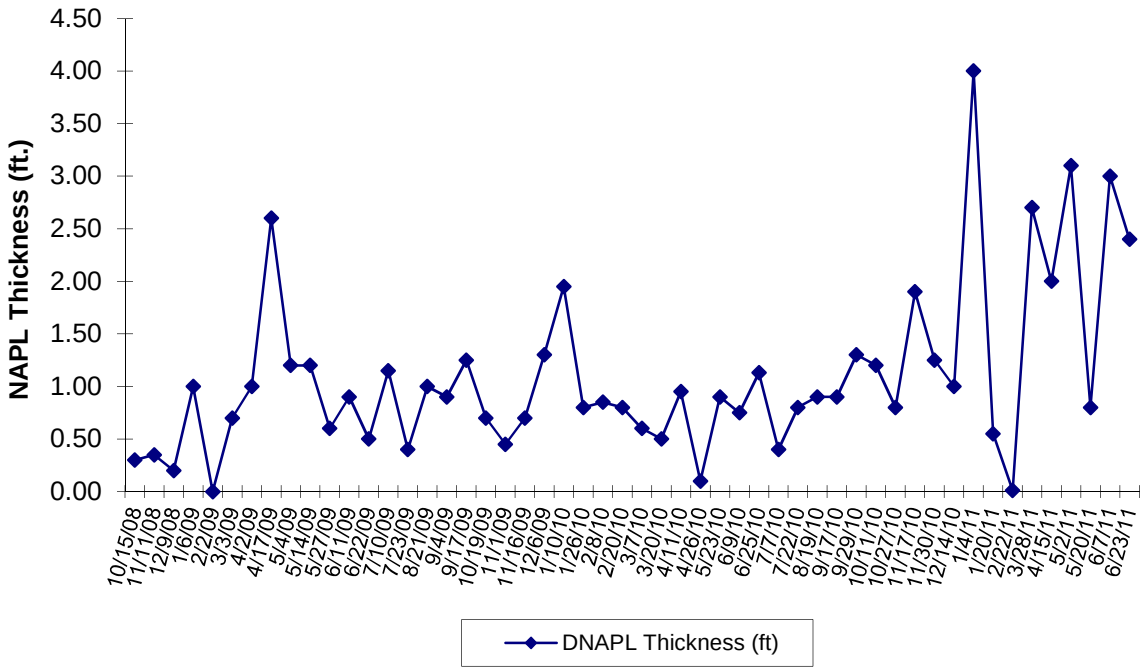
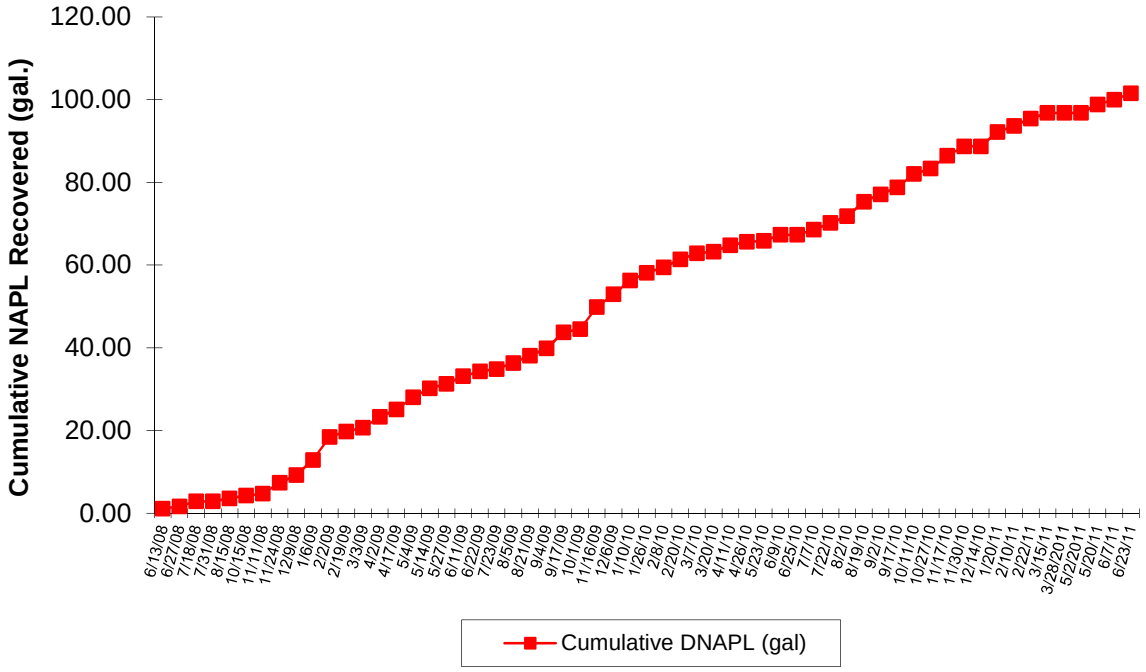


FIGURE 9AC
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



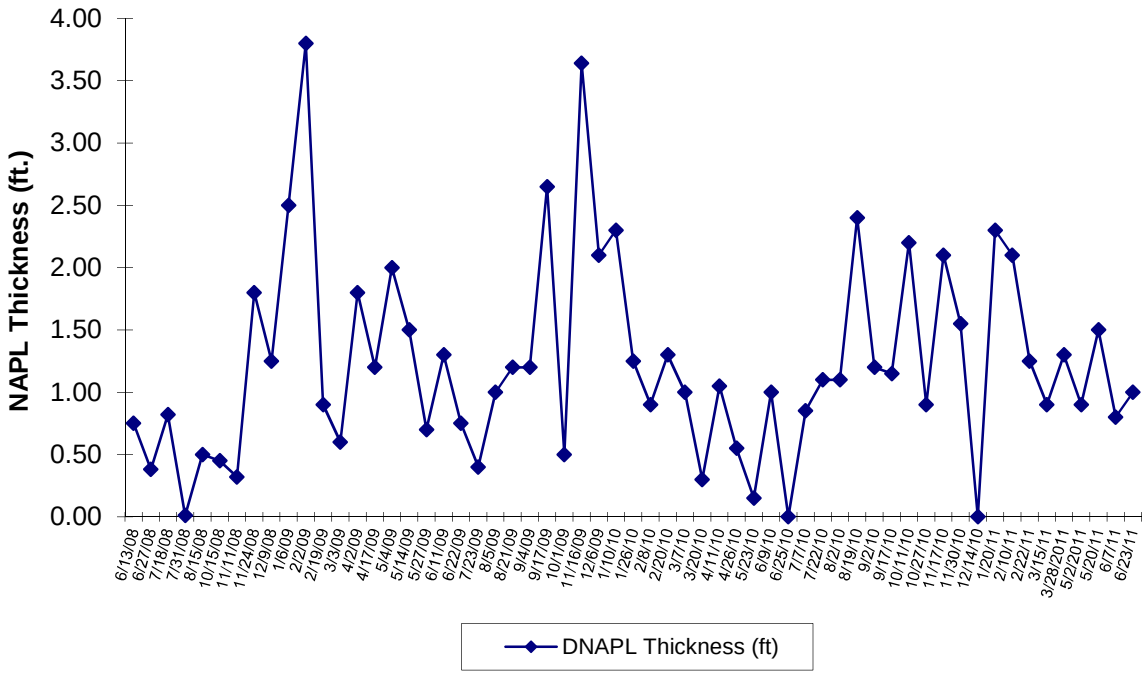
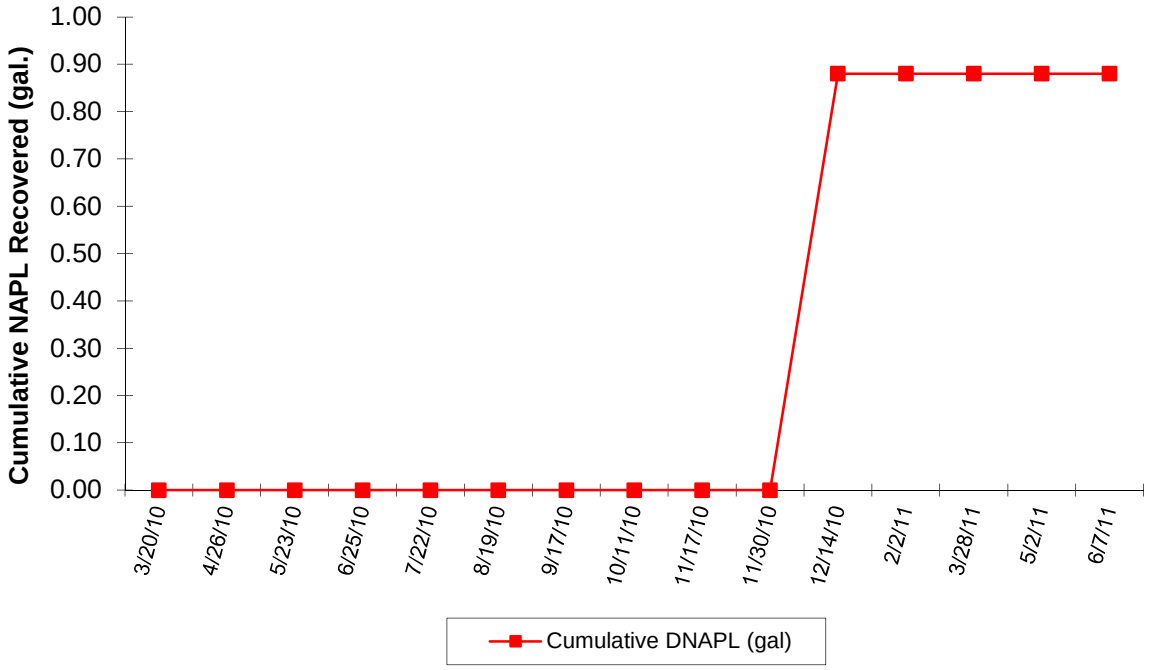


FIGURE 9AD
Well IPR- 23 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



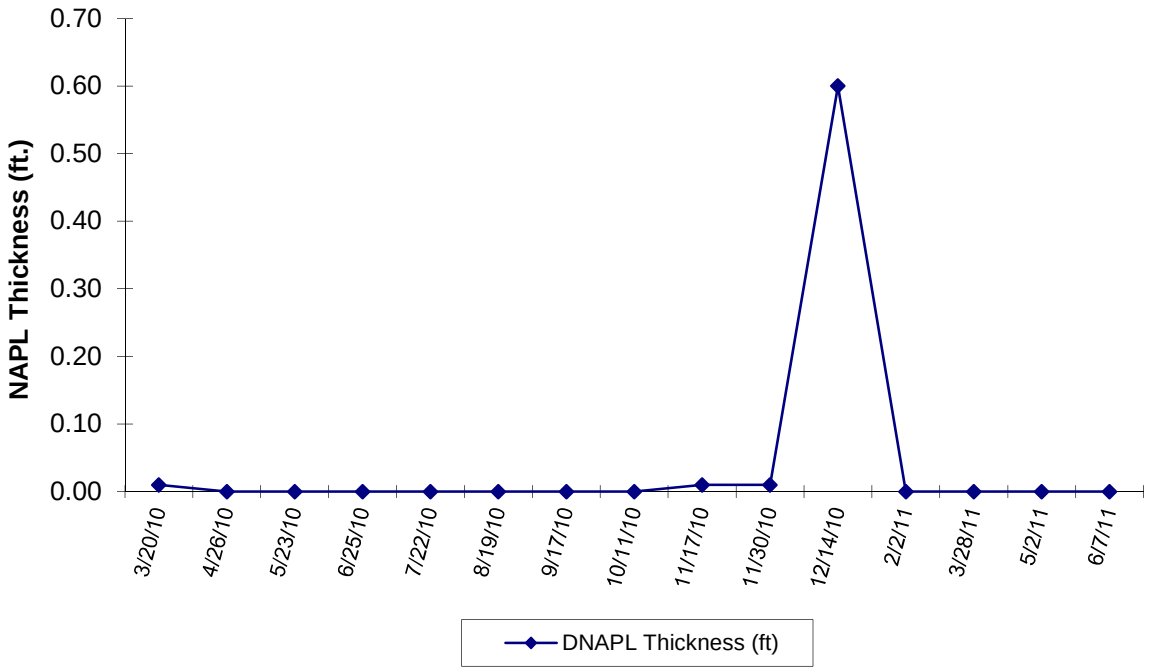
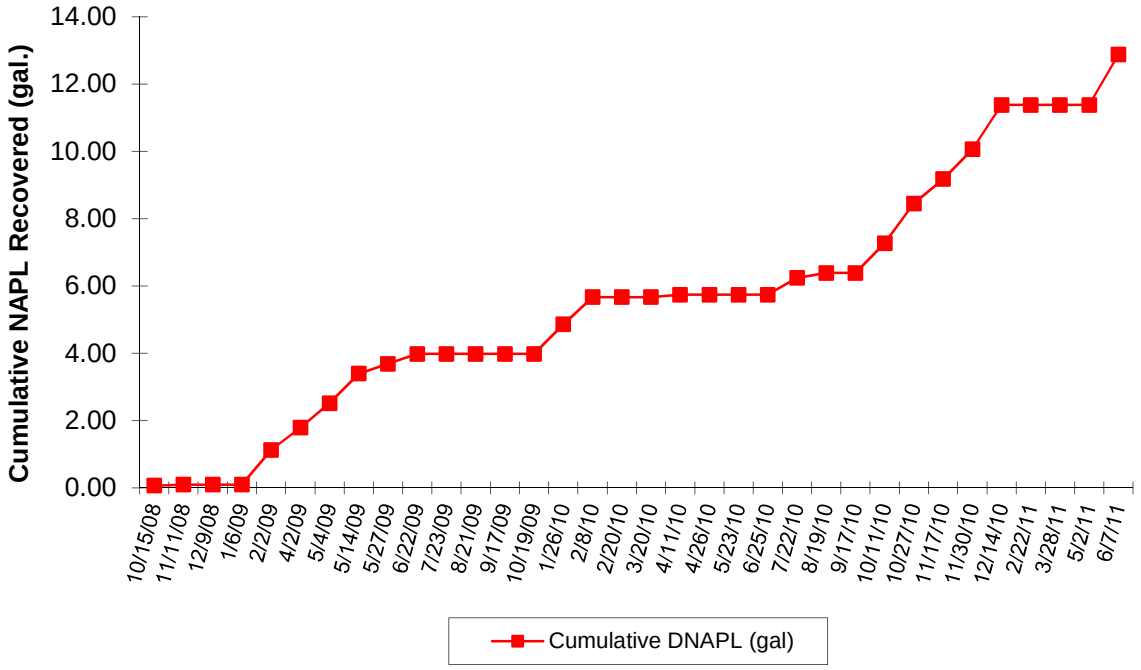


FIGURE 9AE
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



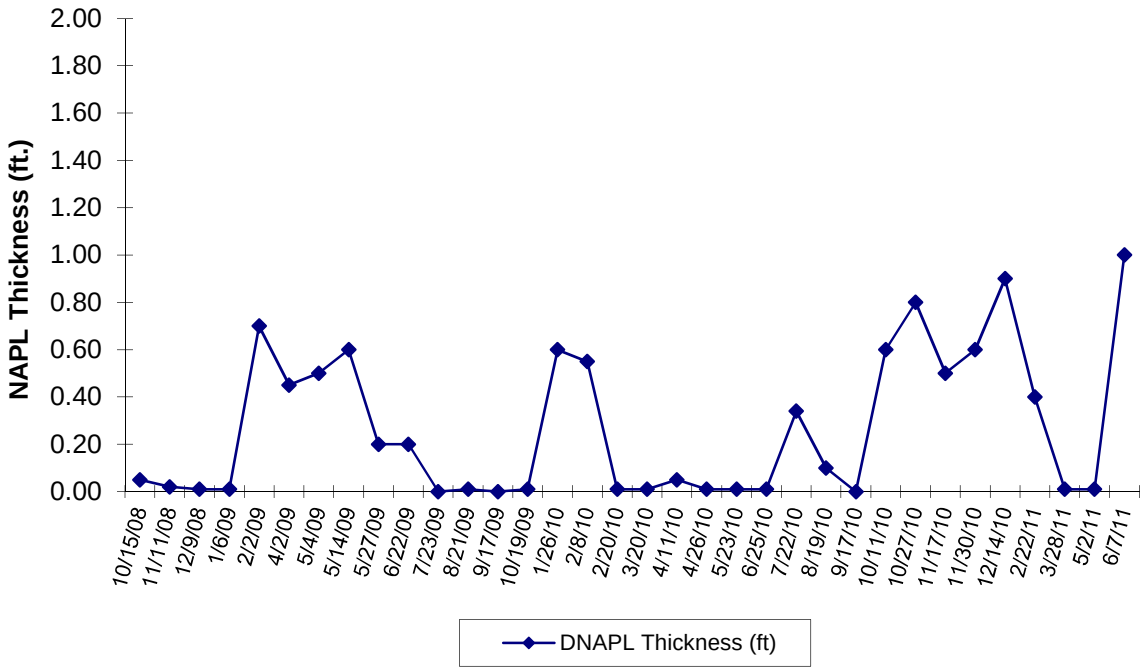
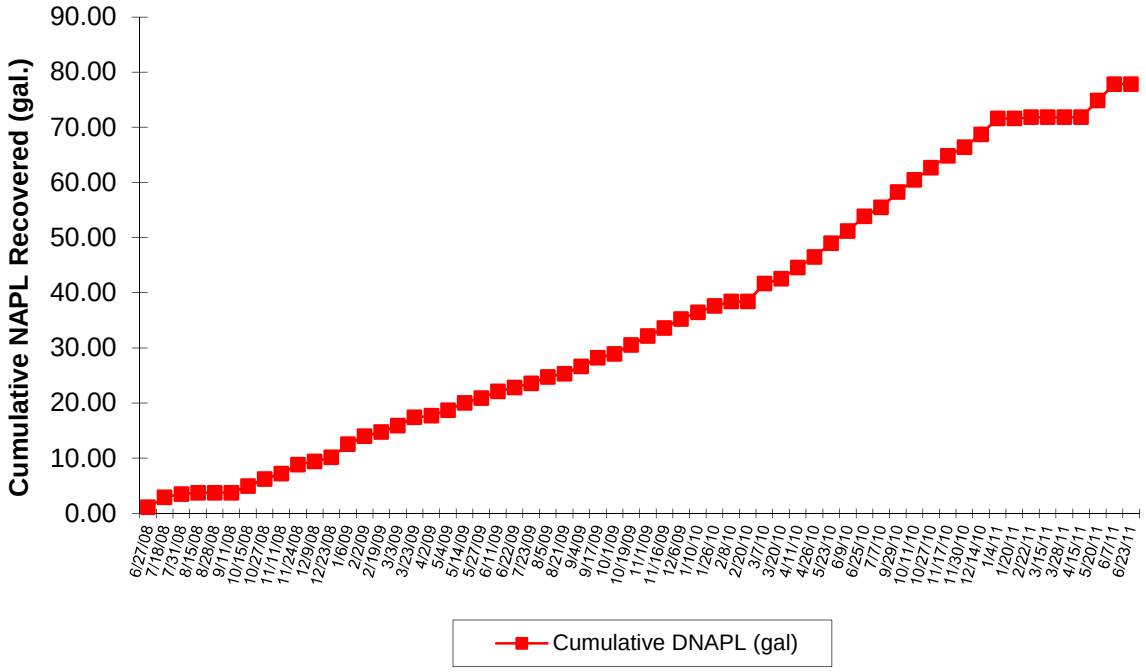


FIGURE 9AF
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



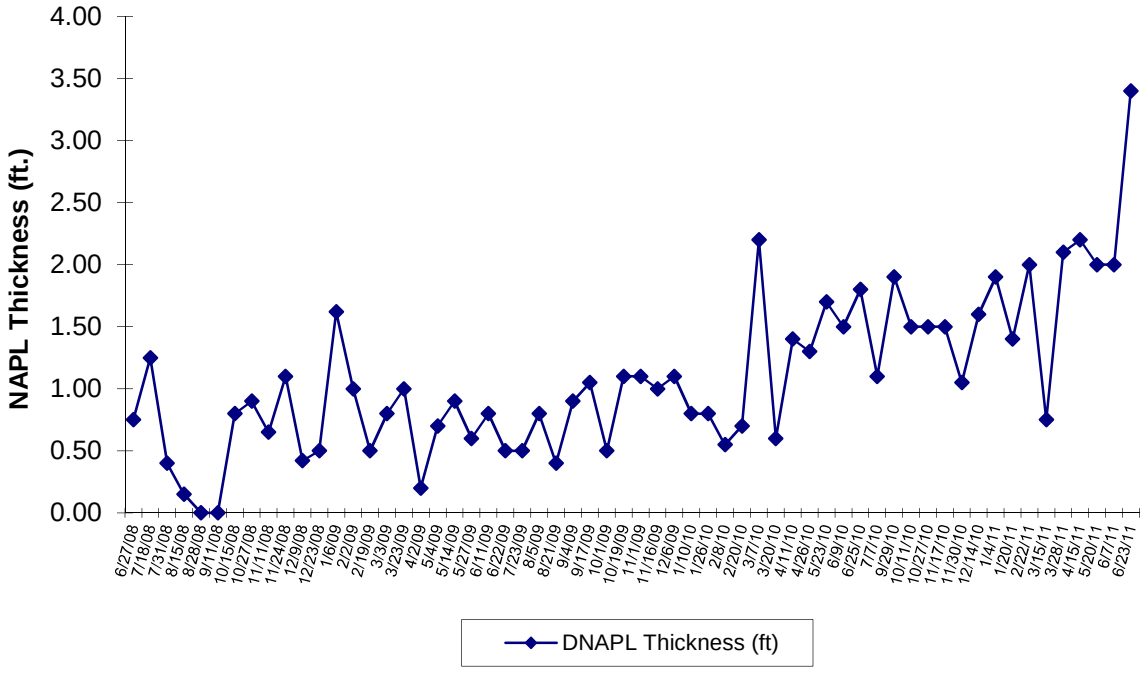
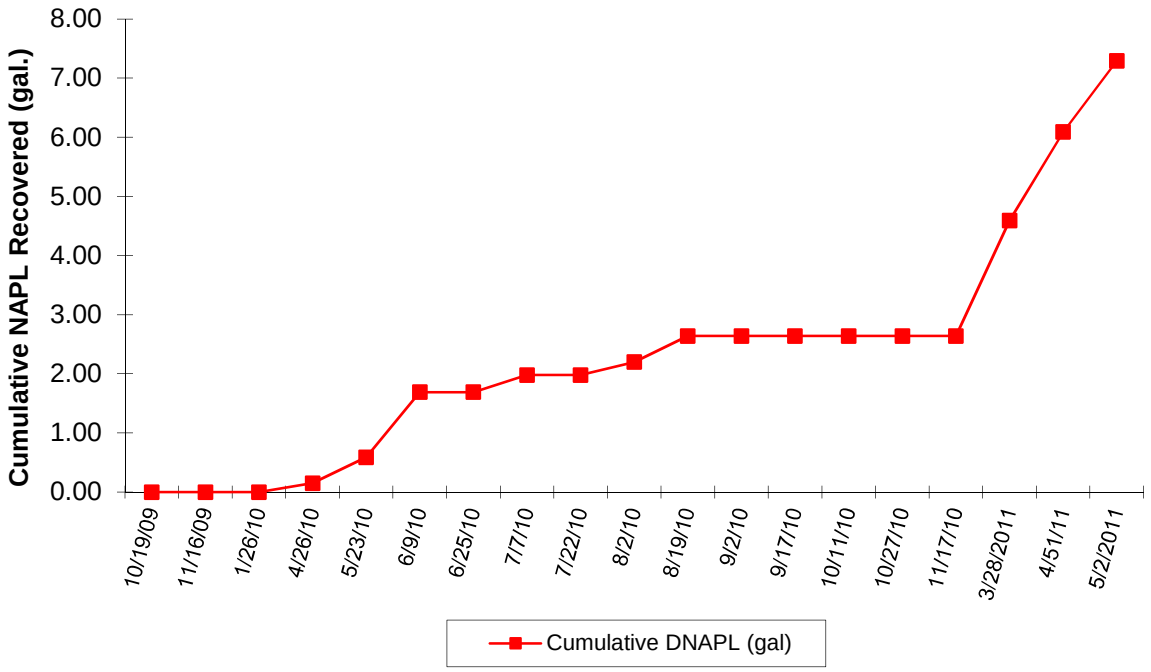


FIGURE 9AG
Well IPR-26 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



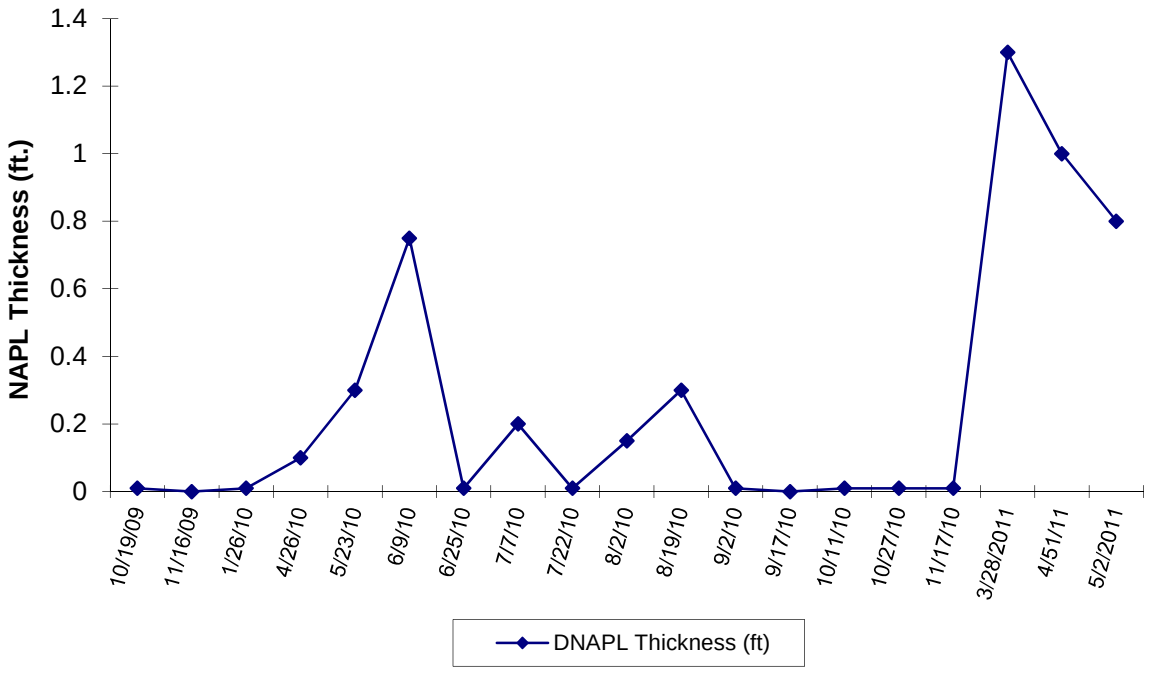
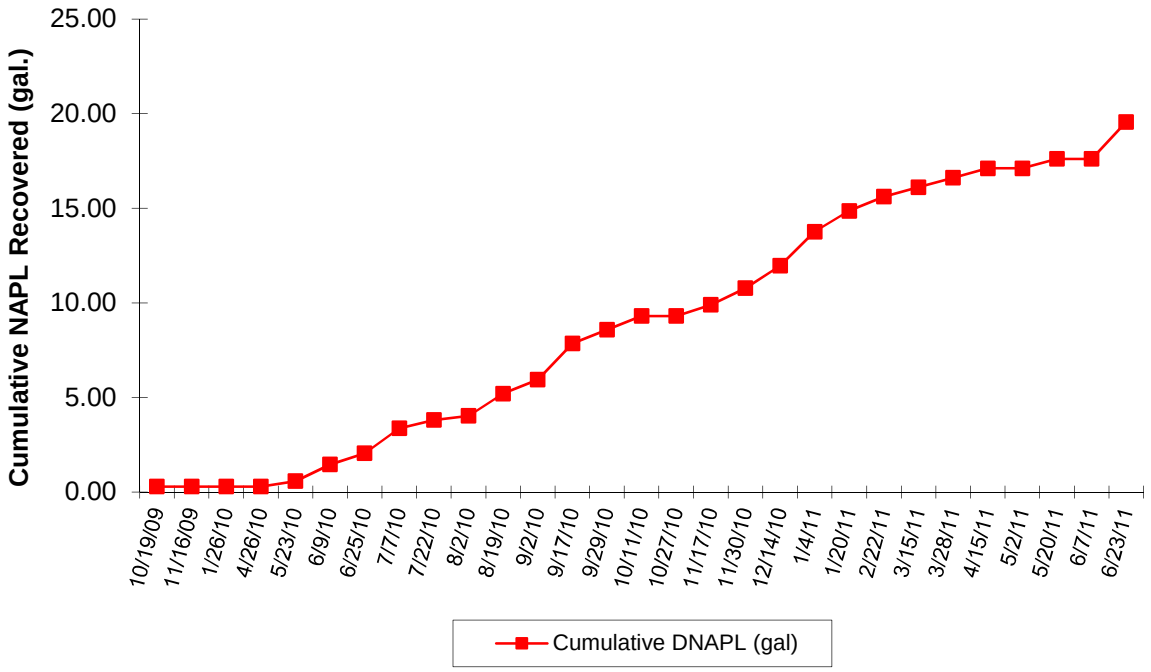


FIGURE 9AH
Well IPR-27 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



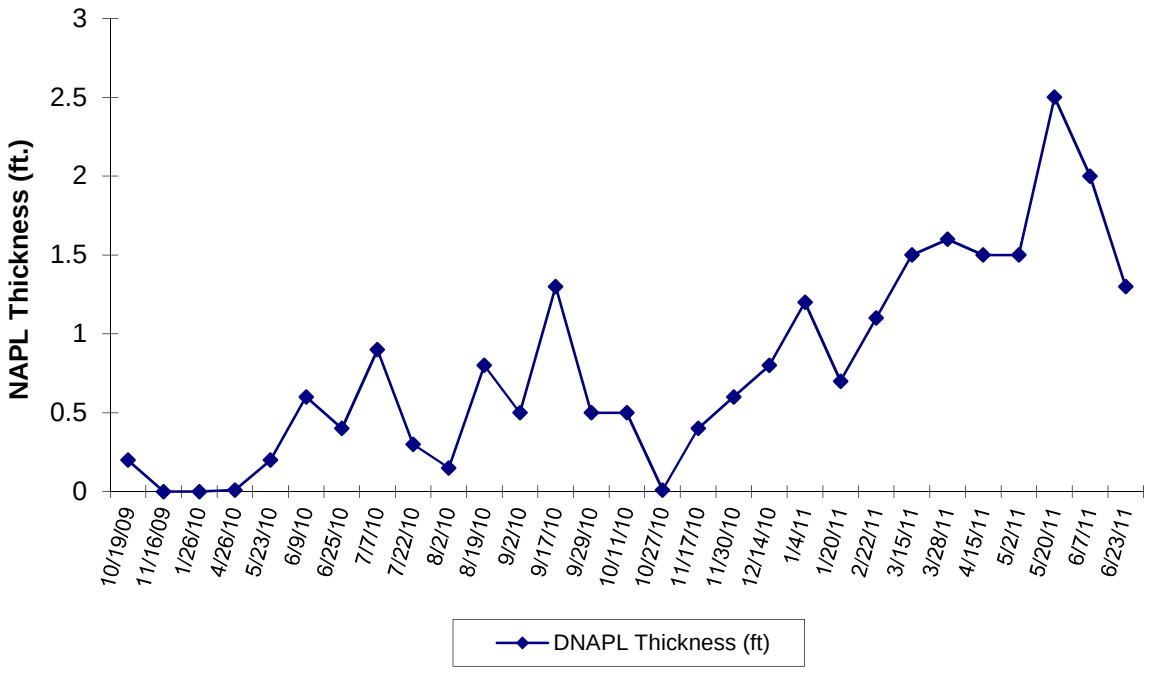
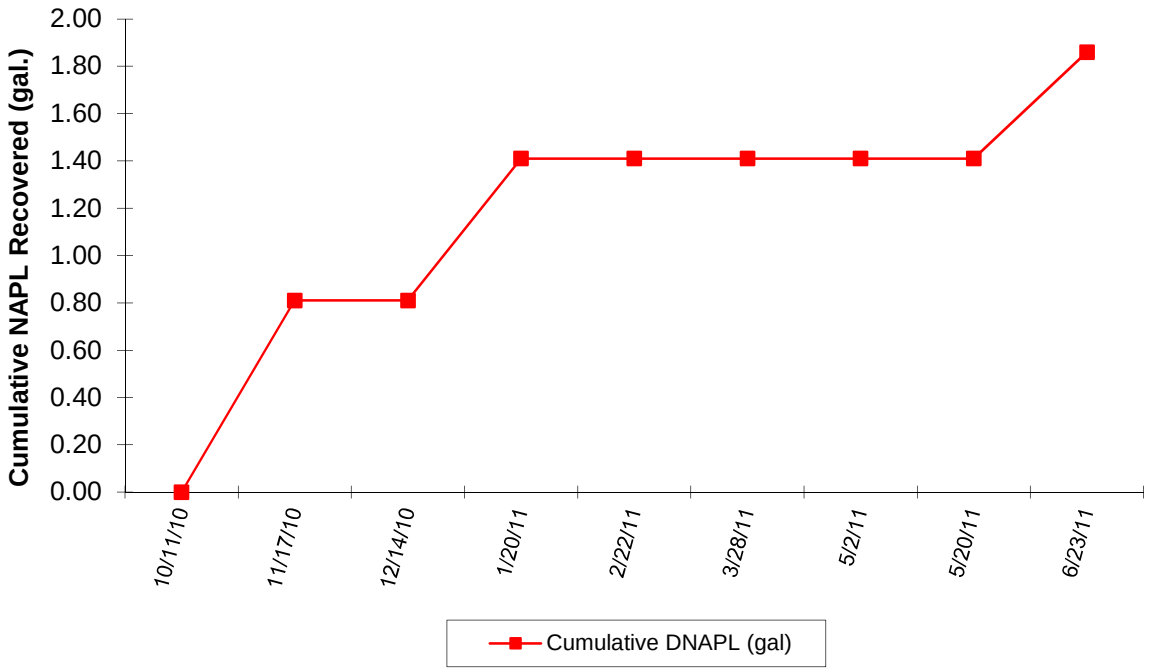


FIGURE 9AI
Well IPR-28 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



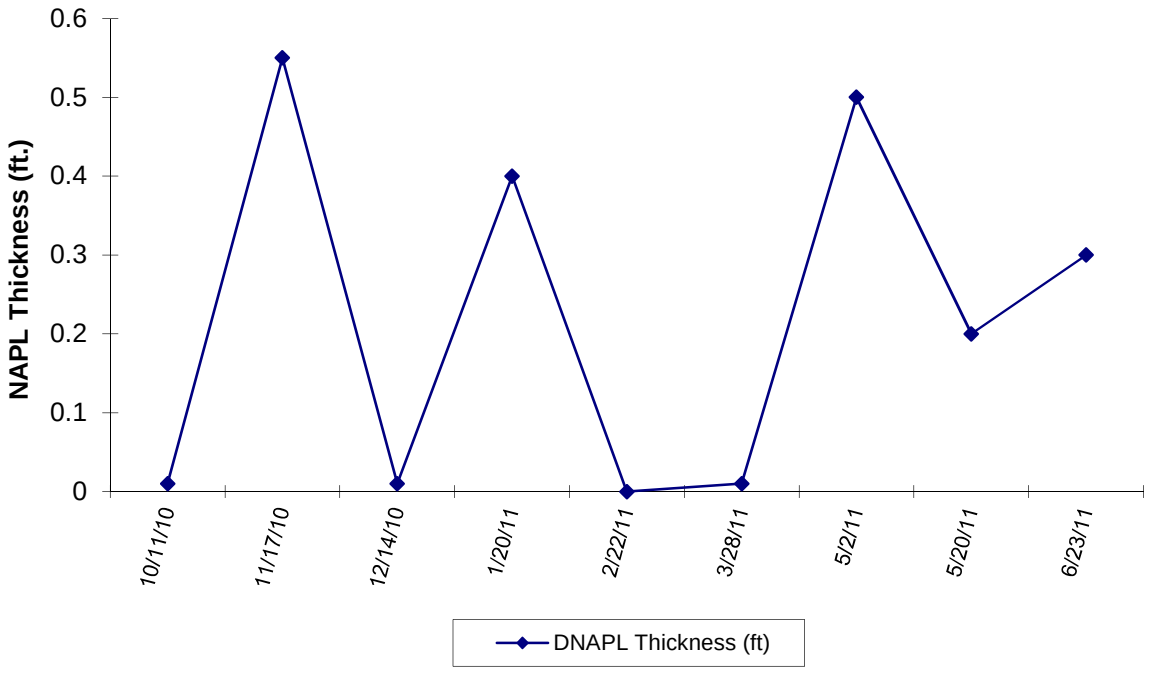
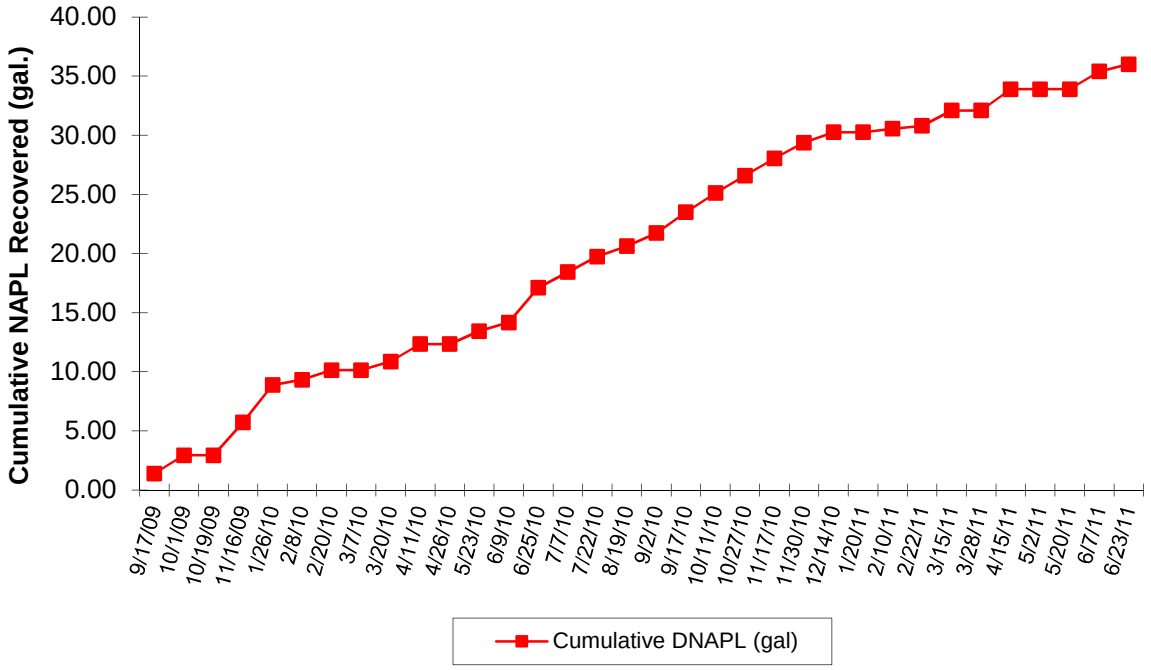


FIGURE 9AJ
Well IPR-29 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



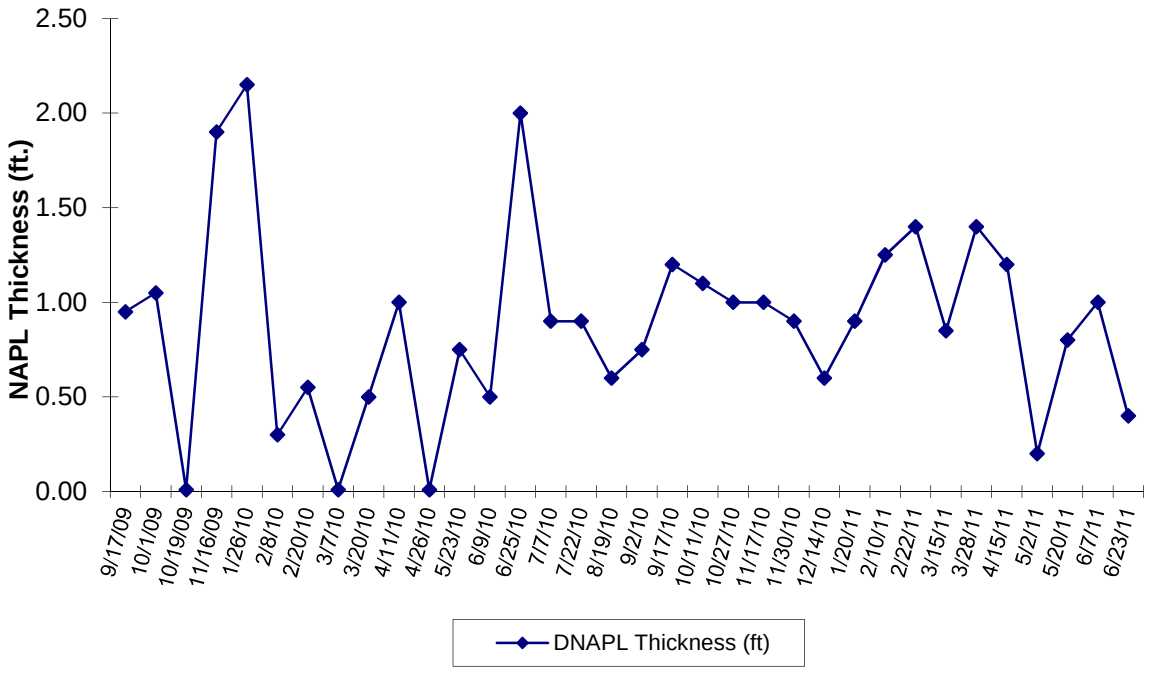
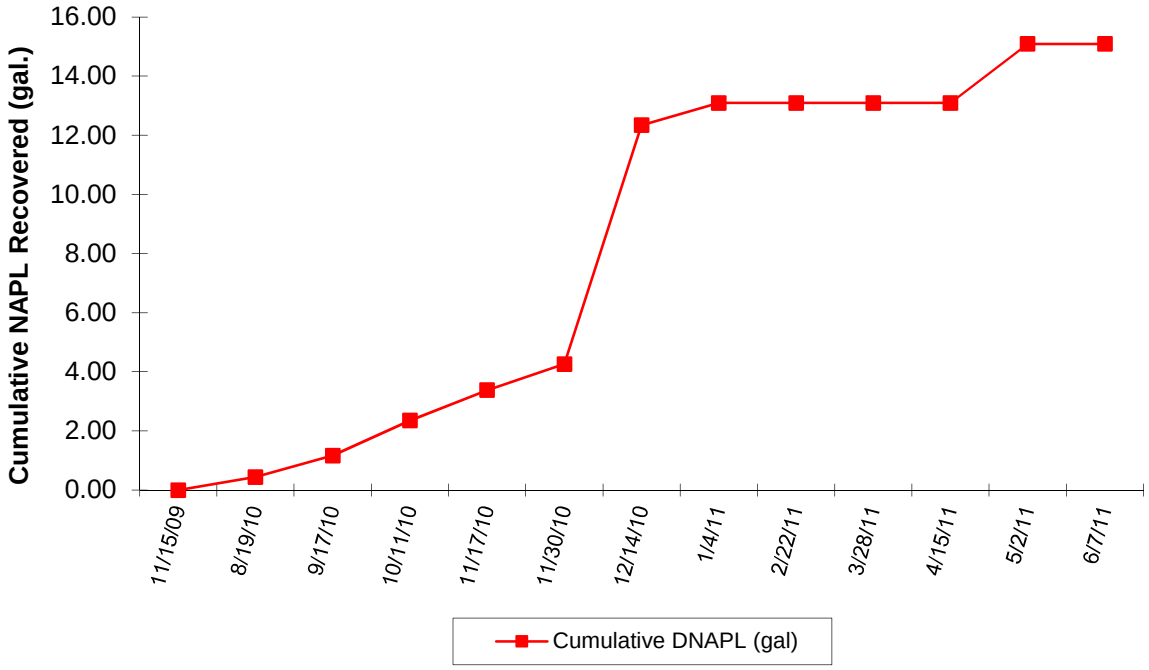
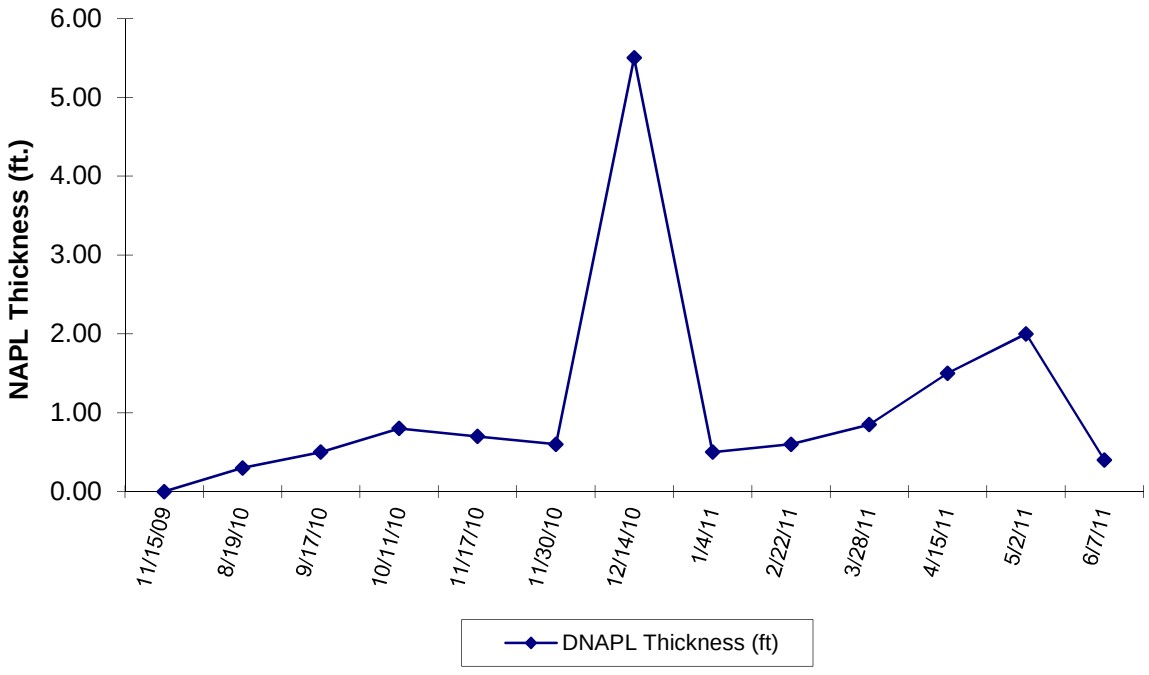


FIGURE 9AK
Well IPR-30 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site





APPENDIX A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

APPENDIX A
DATA USABILITY SUMMARY REPORT
SECOND QUARTER 2011

HEMPSTEAD INTERSECTION STREET FORMER MGP SITE
VILLAGES OF GARDEN CITY AND HEMPSTEAD
LONG ISLAND, NEW YORK

Analyses Performed by:
H2M LABORATORIES, INC.

Prepared For:

NATIONAL GRID
175 EAST OLD COUNTRY RD.
HICKSVILLE, NY 11801

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

JULY 2011

TABLE OF CONTENTS

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and Development of Data Usability Summary Reports*, May 2010.

Analytical data for twenty-five (25) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) field blank, and four (4) trip blanks collected by URS personnel from May 24 to June 3, 2011 are discussed in this DUSR. The samples were collected as part of the 2011 second quarter groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

The samples were analyzed by H2M Laboratories, Inc. (Melville, NY) for the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – USEPA Method SW8260B, and
- Polynuclear aromatic hydrocarbons (PAHs) – USEPA Method SW8270C.

A limited data validation was performed on the samples in accordance with the guidelines presented in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2,* August 2008; and

- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 4*, August 2008.

The limited data validation included a review of completeness of all required deliverables; holding times; quality control (QC) results (i.e., instrument tunes, calibration standards, blanks, matrix spike recoveries, field duplicate analyses, laboratory control sample recoveries, and surrogate/internal standard recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the data validation process include "J" (estimated) and 'UJ' (estimated quantitation limit). The validated analytical results are presented in Tables A-1 and A-2. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Copies of the chain-of-custodies, case narratives, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except for the following instances, where qualification of the data was necessary.

- The cooler temperatures associated with the following groundwater samples were above 10°C: HIMW-03S, -05D, -05I, -14D, -14I (plus field duplicate), -15D, -15I, -20I, -20S, -22, -23, -24, and -25. The BTEX and PAH results for these samples were qualified as 'J' or 'UJ' per USEPA Region II data validation guidelines.

- The collection dates for the trip blanks were incorrectly referenced on the COCs (i.e., 05/19/11), which corresponds to the date they were prepared at the lab. They should correspond to the collection dates of the associated samples.

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

Besides the cooler temperature exceedances noted above, there were no non-conformances that affected the usability of the data.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample size and dilution factors. BTEX and PAH results detected below the quantitation limits were qualified 'J' by the laboratory. The results reported from secondary dilution analyses were qualified 'D' by the laboratory.

Field duplicates were collected from monitoring well locations HIMW-12S and -014I, which exhibited good field and analytical precision.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, and the data are usable as reported, except for those results qualified 'J' or 'UJ', which should be considered conditionally usable. URS does not recommend the re-collection of any samples at this time.

Prepared By: _____ **Date:** 7/15/11
Peter R. Fairbanks, Senior Chemist

Reviewed By: _____ **Date:** 7/15/11
George E. Kisluk, Senior Chemist

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The sample results are reported from a separate secondary dilution analysis.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Sample ID			HIMW-3D	HIMW-3I	HIMW-3S	HIMW-5D	HIMW-5I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/31/11	05/31/11	05/27/11	05/27/11	05/27/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 UJ	2 J	3 J
Ethylbenzene	UG/L	-	1 U	1 U	1 UJ	1 UJ	2 J
Toluene	UG/L	-	1 U	1 U	1 UJ	1 J	1 J
Xylene (total)	UG/L	-	1 U	1 U	1 UJ	130 J	140 J
Total BTEX	UG/L	100	ND	ND	ND	133	146
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 UJ	50 J	320 DJ
Acenaphthene	UG/L	-	10 U	10 U	10 UJ	2 J	10 J
Acenaphthylene	UG/L	-	10 U	10 U	10 UJ	16 J	150 DJ
Anthracene	UG/L	-	10 U	10 U	10 UJ	10 UJ	2 J
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Chrysene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Fluoranthene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Fluorene	UG/L	-	10 U	10 U	10 UJ	3 J	24 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Naphthalene	UG/L	-	10 U	10 U	10 UJ	95 DJ	1,600 DJ
Phenanthrene	UG/L	-	10 U	10 U	10 UJ	10 UJ	14 J
Pyrene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	166	2,120

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_PRF 07/12/11_; Checked By: 7/13/11

Detection Limits shown are PQL

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([SDG] = 'KEY-URS120' OR [SDG] = 'KEY-URS126') AND [MATRIX] = 'WG'

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-005S	HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012D
Sample ID			HIMW-5S	HIMW-8D	HIMW-8I	HIMW-8S	HIMW-12D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/01/11	06/02/11	06/02/11	06/02/11	06/01/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total BTEX	UG/L	100	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	-	10 U	10 U	10 U	2 J	10 U
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	1 J	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	ND	3	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

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Made By_PRF 07/12/11_; Checked By_ 7/13/11

Detection Limits shown are PQL

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{[SDG] = 'KEY-URS120' OR [SDG] = 'KEY-URS126'} AND [MATRIX] = 'WG'

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-012I	HIMW-012S	HIMW-012S	HIMW-013D	HIMW-013I
Sample ID			HIMW-12I	DUP11 0531	HIMW-12S	HIMW-13D	HIMW-13I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/31/11	05/31/11	05/31/11	05/24/11	05/24/11
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Benzene	UG/L	-	54	1 U	1 U	2	140
Ethylbenzene	UG/L	-	3	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	7	1 U	1 U	1 U	2
Total BTEX	UG/L	100	64	ND	ND	2	142
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	39	10 U	10 U	5 J	6 J
Acenaphthylene	UG/L	-	37	10 U	10 U	12	45
Anthracene	UG/L	-	10 U	10 U	10 U	10 U	1 J
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	-	22	10 U	10 U	10 U	8 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	-	4 J	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	-	6 J	10 U	10 U	10 U	7 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	108	ND	ND	17	67

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

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D - Result reported from a secondary dilution analysis.

Made By_PRF 07/12/11_; Checked By 7/13/11

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-013S	HIMW-014D	HIMW-014I	HIMW-014I	HIMW-015D
Sample ID			HIMW-13S	HIMW-14D	DUP11 0526	HIMW-14I	HIMW-15D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/24/11	05/26/11	05/26/11	05/26/11	05/25/11
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 UJ	24 J	24 J	1 UJ
Ethylbenzene	UG/L	-	1 U	1 UJ	3 J	3 J	1 UJ
Toluene	UG/L	-	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Xylene (total)	UG/L	-	1 U	1 UJ	2 J	2 J	1 UJ
Total BTEX	UG/L	100	ND	ND	29	29	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Acenaphthene	UG/L	-	10 U	10 UJ	12 J	14 J	10 UJ
Acenaphthylene	UG/L	-	10 U	10 UJ	14 J	17 J	10 UJ
Anthracene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)pyrene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(b)fluoranthene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(k)fluoranthene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Chrysene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Dibenz(a,h)anthracene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Fluorene	UG/L	-	10 U	10 UJ	5 J	6 J	10 UJ
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Naphthalene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Phenanthrene	UG/L	-	10 U	10 UJ	4 J	5 J	10 UJ
Pyrene	UG/L	-	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	ND	ND	35	42	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_PRF 07/12/11_; Checked By_ 7/13/11

Detection Limits shown are PQL

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([SDG] = 'KEY-URS120' OR [SDG] = 'KEY-URS126') AND [MATRIX] = 'WG'

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-015I	HIMW-020I	HIMW-020S	HIMW-022	HIMW-023
Sample ID			HIMW-15I	HIMW-20I	HIMW-20S	HIMW-22	HIMW-23
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/25/11	06/03/11	06/03/11	05/26/11	05/26/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	23 J	28 J	1.0 UJ	1 UJ	14 J
Ethylbenzene	UG/L	-	1 UJ	19 J	1.0 UJ	1 UJ	27 J
Toluene	UG/L	-	1 UJ	1 J	1.0 UJ	1 UJ	1 UJ
Xylene (total)	UG/L	-	1 UJ	150 J	1.0 UJ	1 UJ	2 J
Total BTEX	UG/L	100	23	198	ND	ND	43
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 UJ	50 J	10 UJ	10 UJ	10 UJ
Acenaphthene	UG/L	-	5 J	11 J	10 UJ	10 UJ	1 J
Acenaphthylene	UG/L	-	23 J	120 DJ	10 UJ	10 UJ	6 J
Anthracene	UG/L	-	10 UJ	2 J	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(a)pyrene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(b)fluoranthene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(k)fluoranthene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chrysene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dibenz(a,h)anthracene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Fluoranthene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Fluorene	UG/L	-	10 UJ	19 J	10 UJ	10 UJ	2 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Naphthalene	UG/L	-	10 UJ	310 DJ	10 UJ	10 UJ	10 UJ
Phenanthrene	UG/L	-	3 J	18 J	10 UJ	10 UJ	2 J
Pyrene	UG/L	-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	31	530	ND	ND	11

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_PRF 07/12/11_; Checked By_ 7/13/11

Detection Limits shown are PQL

TABLE A-1
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			HIMW-024	HIMW-025
Sample ID			HIMW-24	HIMW-25
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			05/25/11	05/25/11
Parameter	**Units**	**Criteria***		
Volatile Organic Compounds				
Benzene	UG/L	-	400 DJ	350 DJ
Ethylbenzene	UG/L	-	120 J	2 UJ
Toluene	UG/L	-	30 J	20 J
Xylene (total)	UG/L	-	320 J	180 J
Total BTEX	UG/L	100	870	552
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	65 J	9 J
Acenaphthene	UG/L	-	17 J	2 J
Acenaphthylene	UG/L	-	48 J	26 J
Anthracene	UG/L	-	2 J	10 UJ
Benzo(a)anthracene	UG/L	-	10 UJ	10 UJ
Benzo(a)pyrene	UG/L	-	10 UJ	10 UJ
Benzo(b)fluoranthene	UG/L	-	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	-	10 UJ	10 UJ
Benzo(k)fluoranthene	UG/L	-	10 UJ	10 UJ
Chrysene	UG/L	-	10 UJ	10 UJ
Dibenz(a,h)anthracene	UG/L	-	10 UJ	10 UJ
Fluoranthene	UG/L	-	10 UJ	10 UJ
Fluorene	UG/L	-	3 J	3 J
Indeno(1,2,3-cd)pyrene	UG/L	-	10 UJ	10 UJ
Naphthalene	UG/L	-	870 DJ	530 DJ
Phenanthrene	UG/L	-	15 J	3 J
Pyrene	UG/L	-	10 UJ	10 UJ
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	1,020	573

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_PRF 07/12/11_; Checked By_ 7/12/11

Detection Limits shown are PQL

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([SDG] = 'KEY-URS120' OR [SDG] = 'KEY-URS126') AND [MATRIX] = 'WG'

TABLE A-2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
NATIONAL GRID - HEMPSTEAD INTERSECTION STREET FORMER MGP SITE

Location ID			FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID			TB 052411	TRIP BLANK	TRIP BLANK	TRIP BLANK	Field Blank
Matrix			Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/24/11	05/25/11	05/27/11	05/31/11	06/02/11
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	-	1 U	1 U	1 U	1 U	1 U
Total BTEX	UG/L	100	ND	ND	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	10 U
Acenaphthene	UG/L	-	NA	NA	NA	NA	10 U
Acenaphthylene	UG/L	-	NA	NA	NA	NA	10 U
Anthracene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(a)anthracene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(a)pyrene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(b)fluoranthene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(g,h,i)perylene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(k)fluoranthene	UG/L	-	NA	NA	NA	NA	10 U
Chrysene	UG/L	-	NA	NA	NA	NA	10 U
Dibenz(a,h)anthracene	UG/L	-	NA	NA	NA	NA	10 U
Fluoranthene	UG/L	-	NA	NA	NA	NA	10 U
Fluorene	UG/L	-	NA	NA	NA	NA	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	NA	NA	NA	NA	10 U
Naphthalene	UG/L	-	NA	NA	NA	NA	10 U
Phenanthrene	UG/L	-	NA	NA	NA	NA	10 U
Pyrene	UG/L	-	NA	NA	NA	NA	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	NA	NA	NA	NA	ND

*Criteria- Goundwater Plume Delineation/Design Criteria, Pre-Design Investigation Work Plan for In-Situ Solidification for the Hempstead Intersection Street Former MGP Site, Appendix E, Final, URS 2008.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

NA - The sample was not analyzed for this parameter.

Made By_PRF 07/12/11_; Checked By_ 7/13/11

Detection Limits shown are PQL

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([SDG] = 'KEY-URS120' OR [SDG] = 'KEY-URS126') AND [MATRIX] = 'WQ'

ATTACHMENT A

VALIDATED FORM 1'S

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10821.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S38

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10822.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	140	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

KEY-URS120 S39

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10825.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S40

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB 052411

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10823.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S41

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10826.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/11

KEY-URS120 S42

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10827.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	23	J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/14

KEY-URS120 S43

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-25

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10828.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	350 380	~~E~~ DJ
108-88-3	Toluene	20	J
100-41-4	Ethylbenzene	2	"
1330-20-7	Xylene (total)	180	"

7/12/11

KEY-URS120 S44

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-25DL

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10843.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 2.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	350	D
108-88-3	Toluene	20	D
100-41-4	Ethylbenzene	2	U
1330-20-7	Xylene (total)	160	D

7/12/11

KEY-URS120 S45

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-24

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10829.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	~~420~~ 400	E DJ
108-88-3	Toluene	30	J
100-41-4	Ethylbenzene	120	
1330-20-7	Xylene (total)	320	

7/12/11

KEY-URS120 S46

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-24DL

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10844.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	400	D
108-88-3	Toluene	29	D
100-41-4	Ethylbenzene	100	D
1330-20-7	Xylene (total)	270	D

7/12/11

KEY-URS120 S47

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10824.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10830.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/11

KEY-URS120 S49

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10831.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2	J
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	130	

7/12/11

KEY-URS120 S50

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10832.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	3	J
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	140	

7/12/11

KEY-URS120 S51

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10833.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/14

KEY-URS120 S52

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-14I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10834.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/03/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	24	J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	2	J

7/12/11

KEY-URS120 S53

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-22

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10845.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/11
c

KEY-URS120 S54

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-23

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10846.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	14	J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	27	
1330-20-7	Xylene (total)	2	J

7/12/11

KEY-URS120 S55

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP11 0526

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10847.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	24	J
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	2	J

7/12/11

KEY-URS120 S56

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-009A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10848.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S57

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10850.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S58

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10851.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10852.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	54	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	7	

KEY-URS120 S60

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10853.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S61

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP11 0531

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10854.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S62

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 1\E10849.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: not dec. Date Analyzed: 06/04/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS120 S63

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60183.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

HIMW-13I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60184.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	45	
83-32-9	Acenaphthene	6	J
86-73-7	Fluorene	8	J
85-01-8	Phenanthrene	7	J
120-12-7	Anthracene	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

HIMW-13S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105963-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60188.D

Level: (low/med) LOW Date Received: 05/24/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

HIMW-15D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60189.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11
2

KEY-URS120 S68

1C

EPA SAMPLE NO.

HIMW-15I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60190.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	23	
83-32-9	Acenaphthene	5	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U J

(1) Cannot be separated from Diphenylamine

7/12/11 2

KEY-URS120 S69

1C

EPA SAMPLE NO.

HIMW-25

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60191.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	~~280~~ 530	E DJ
91-57-6	2-Methylnaphthalene	9	J
208-96-8	Acenaphthylene	26	J
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	3	J
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11

KEY-URS120 S70

1C

EPA SAMPLE NO.

HIMW-25DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C60207.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/06/11

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	530	D
91-57-6	2-Methylnaphthalene	100	U
208-96-8	Acenaphthylene	34	DJ
83-32-9	Acenaphthene	100	U
86-73-7	Fluorene	100	U
85-01-8	Phenanthrene	100	U
120-12-7	Anthracene	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U

(1) Cannot be separated from Diphenylamine

7/12/11

1C

EPA SAMPLE NO.

HIMW-24

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60192.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/03/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	~~460~~ 870	~~E~~ DJ
91-57-6	2-Methylnaphthalene	65	J
208-96-8	Acenaphthylene	48	J
83-32-9	Acenaphthene	17	J
86-73-7	Fluorene	3	J
85-01-8	Phenanthrene	15	J
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U J
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11

KEY-URS120 S72

1C

EPA SAMPLE NO.

HIMW-24DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105A44-004BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C60208.D

Level: (low/med) LOW Date Received: 05/25/11

% Moisture: Decanted: (Y/N) N Date Extracted: 05/27/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/06/11

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	870	D
91-57-6	2-Methylnaphthalene	65	DJ
208-96-8	Acenaphthylene	56	DJ
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U

(1) Cannot be separated from Diphenylamine

7/12/11

1C

EPA SAMPLE NO.

HIMW-3S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60230.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11 J

KEY-URS120 S74

1C

EPA SAMPLE NO.

HIMW-5D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60231.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND		Q
91-20-3	Naphthalene	~~90~~ 95	EDJ
91-57-6	2-Methylnaphthalene	50	J
208-96-8	Acenaphthylene	16	J
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	3	J
85-01-8	Phenanthrene	10	U J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U J

(1) Cannot be separated from Diphenylamine

7/12/11

2

KEY-URS120 S75

1C

EPA SAMPLE NO.

HIMW-5DDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C60248.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	95	D
91-57-6	2-Methylnaphthalene	52	D
208-96-8	Acenaphthylene	17	DJ
83-32-9	Acenaphthene	20	U
86-73-7	Fluorene	20	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenzo(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) Cannot be separated from Diphenylamine

7/12/4

KEY-URS120 S76

1C

EPA SAMPLE NO.

HIMW-5I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60232.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	~~920~~ 1600	~~E~~ DJ
91-57-6	2-Methylnaphthalene	~~380~~ 320	~~E~~
208-96-8	Acenaphthylene	~~130~~ 150	~~E~~
83-32-9	Acenaphthene	10	J
86-73-7	Fluorene	24	
85-01-8	Phenanthrene	14	
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U J
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11

KEY-URS120 S77

1C

EPA SAMPLE NO.

HIMW-5IDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C60249.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND	Q
91-20-3	Naphthalene	1600	D
91-57-6	2-Methylnaphthalene	320	DJ
208-96-8	Acenaphthylene	150	DJ
83-32-9	Acenaphthene	400	U
86-73-7	Fluorene	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

7/12/11
2

1C

EPA SAMPLE NO.

HIMW-14D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60233.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11
2

KEY-URS120 S79

1C

EPA SAMPLE NO.

HIMW-14I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60234.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	17	
83-32-9	Acenaphthene	14	
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	5	J
120-12-7	Anthracene	10	U J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11
2

KEY-URS120 S80

1C

EPA SAMPLE NO.

HIMW-22

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-006B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60235.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U J

(1) Cannot be separated from Diphenylamine

7/12/11 2

KEY-URS120 S81

1C

EPA SAMPLE NO.

HIMW-23

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-007B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60236.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U J
208-96-8	Acenaphthylene	6	J
83-32-9	Acenaphthene	1	J
86-73-7	Fluorene	2	J
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	U J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11
2

KEY-URS120 S82

1C

EPA SAMPLE NO.

DUP11 0526

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B49-008B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60237.D

Level: (low/med) LOW Date Received: 05/27/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/01/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/07/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	14	
83-32-9	Acenaphthene	12	
86-73-7	Fluorene	5	J
85-01-8	Phenanthrene	4	J
120-12-7	Anthracene	10	U J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11 E

KEY-URS120 S83

1C

EPA SAMPLE NO.

HIMW-3D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60263.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/03/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/08/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60264.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/03/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/08/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

HIMW-12I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60265.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/03/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/08/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	4	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	37	
83-32-9	Acenaphthene	39	
86-73-7	Fluorene	22	
85-01-8	Phenanthrene	6	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

HIMW-12S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60266.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/03/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/08/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

DUP11 0531

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS120

Matrix: (soil/water) WATER Lab Sample ID: 1105B86-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60267.D

Level: (low/med) LOW Date Received: 05/31/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/03/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/08/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72653.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S25

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72649.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72650.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S27

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72651.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S28

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72652.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S29

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72648.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS126 S30

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106191-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72656.D

Level: (low/med) LOW Date Received: 06/03/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

7/12/11

KEY-URS126 S31

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-20I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106191-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A72657.D

Level: (low/med) LOW Date Received: 06/03/11

% Moisture: not dec. Date Analyzed: 06/06/11

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	28	J
108-88-3	Toluene	1	J
100-41-4	Ethylbenzene	19	J
1330-20-7	Xylene (total)	150	J

7/12/11

KEY-URS126 S32

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60341.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS126 S34

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60344.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS126 S35

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-003B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60345.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-004B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60346.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	2	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	1	J
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS126 S37

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12D

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-005B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60347.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS126 S38

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106129-006B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60348.D

Level: (low/med) LOW Date Received: 06/02/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/07/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/10/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

KEY-URS126 S39

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106191-001B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60306.D

Level: (low/med) LOW Date Received: 06/03/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/06/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/09/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11

KEY-URS126 S40

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106191-002B

Sample wt/vol: 1000 (g/mL) ml Lab File ID: A\C60307.D

Level: (low/med) LOW Date Received: 06/03/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/06/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/09/11

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	~~240~~ 310	E DJ
91-57-6	2-Methylnaphthalene	50	J
208-96-8	Acenaphthylene	~~110~~ 120	E DJ
83-32-9	Acenaphthene	11	J
86-73-7	Fluorene	19	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	10	U J
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

7/12/11 JV

1C

EPA SAMPLE NO.

HIMW-20IDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: KEY-URS SAS NO.: _____ SDG No.: KEY-URS126

Matrix: (soil/water) WATER Lab Sample ID: 1106191-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C60321.D

Level: (low/med) LOW Date Received: 06/03/11

% Moisture: Decanted: (Y/N) N Date Extracted: 06/06/11

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 06/09/11

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	310	D
91-57-6	2-Methylnaphthalene	48	DJ
208-96-8	Acenaphthylene	120	D
83-32-9	Acenaphthene	12	DJ
86-73-7	Fluorene	19	DJ
85-01-8	Phenanthrene	18	DJ
120-12-7	Anthracene	50	U
206-44-0	Fluoranthene	50	U
129-00-0	Pyrene	50	U
56-55-3	Benzo(a)anthracene	50	U
218-01-9	Chrysene	50	U
205-99-2	Benzo(b)fluoranthene	50	U
207-08-9	Benzo(k)fluoranthene	50	U
50-32-8	Benzo(a)pyrene	50	U
193-39-5	Indeno(1,2,3-cd)pyrene	50	U
53-70-3	Dibenzo(a,h)anthracene	50	U
191-24-2	Benzo(g,h,i)perylene	50	U

(1) Cannot be separated from Diphenylamine

7/12/14
2

KEY-URS126 S42

ATTACHMENT B

SUPPORT DOCUMENTATION

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 5/24/11, 5/25/22, 5/27/11 & 5/31/11
SDG #: KEY-URS120

For Sample(s):

HIMW-13D	HIMW-25	HIMW-14D	HIMW-3D
HIMW-13I	HIMW-24	HIMW-14I	HIMW-3I
HIMW-13S	TRIP BLANK	HIMW-22	HIMW-12I
TB 052411	HIMW-3S	HIMW-23	HIMW-12S
HIMW-15D	HIMW-5D	DUP11 0526	DUP11 0531
HIMW-15I	HIMW-5I	TRIP BLANK	TRIP BLANK

The above sample(s) was/were analyzed for a select list of volatile organic analytes by EPA method 8260B.

All QC data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

No matrix spike/matrix spike duplicate was submitted. Lab fortified blanks were analyzed and indicate good method efficiency.

Samples HIMW-25 and HIMW-24 were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 24, 2011

****
* *
* *
****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 5/24/11, 5/25/11, 5/27/11 & 5/31/11
SDG #: KEY-URS120

For Sample(s):

HIMW-13D	HIMW-25	HIMW-14D	HIMW-3D
HIMW-13I	HIMW-24	HIMW-14I	HIMW-3I
HIMW-13S	HIMW-3S	HIMW-22	HIMW-12I
HIMW-15D	HIMW-5D	HIMW-23	HIMW-12S
HIMW-15I	HIMW-5I	DUP11 0526	DUP11 0531

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes by EPA method 8270C.

All QC data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

No matrix spike/matrix spiked duplicate was submitted. Lab fortified blanks were analyzed and indicate good method efficiency.

Samples HIMW-25, HIMW-24, HIMW-5D and HIMW-5I were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

The surrogate standard d 5 nitrobenzene had high surrogate recoveries in sample HIMW-5I. All surrogate recoveries were diluted out in the dilution of sample HIMW-5I.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 24, 2011

****
*
*
****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

JJ2OU

KEY-URS

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION.

H2M SDG NO: KEY-URS120

PROJECT NAME/NUMBER
NATIONAL GRID
HEMPSTEAD NY

SAMPLERS: (signature)/Client
D. SWAIN URS CORP

DELIVERABLES:

TURNAROUND TIME:
STANDARD

NOTES:

Project Contact: KEVIN CONNAKE

Phone Number: 716 856 5636.

PIS/Quote # 11176098.

Sample Container Description → BTEX, PAH'S

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
5/24/11	0940	GW	HIMW - 13S	4	✓	✓				1105963 -003	
5/24/11	1110	GW	HIMW - 13I	4	✓	✓				-002	
5/24/11	1245	GW	HIMW - 13D	4	✓	✓				-001	
5/19/11	~~TT~~	W	TRIP BLANK	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/24/11	1355		5/24/11	13:58
	5/24/11	15:00	M-Watt	5-24-11	1500
	Date	Time		Date	Time
	Date	Time		Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or (Chilled), Temp 7.6 ice
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or (N)
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

KEY-URS 120

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 5/24/2011 3:00:00 PM

Work Order Numbe 1105963 | RcptNo: 1 | Received by MelissaWatson

Completed by M-Watt | Reviewed by: JA

Completed Date: 5-24-11 | Reviewed Date: 5/27/11

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:	Samples were collected the same day and chilled.		
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To 7°
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: | SDG: KEY-URS120 | SAS:

Adjusted? | Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS120 S4

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

00230

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION **H2M SDG NO:** KEY-URS120

PROJECT NAME/NUMBER: NATIONAL GRID NCP HEMPSTEAD NY.

SAMPLERS: (Signature)/Client: D. SWAIN

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: KEVIN CONNAT

Phone Number: 716

PIS/Quote #: 11176098

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
5/25/11	0900	GW	HIMW-15I	4	/	/				11054A44-002	
5/25/11	1045	GW	HIMW-15D.	4	/	/				-001	
5/25/11	1300	GW	HIMW-22 25 (SA 5/26/11 CC)	4	/	/				-003	
5/25/11	1420	GW	HIMW-23 24	4	/	/				-004	
5/25/11	-	AQ	TRIP BLANK (SA 5/27/11)	2	/						

Sample Container Description: BTEX, PAH's

ANALYSIS REQUESTED

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/25/11	1512	S.Wall	5.25.11	15.12
S.Wall	5-25-11	16.32		5-25-11	16:32

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 4.1
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or N N/A
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

KEY-URS 120

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 5/25/2011 4:32:00 PM

Work Order Numbe 1105A44 | RcptNo: 1 | Received by Tamika Ricks

Completed by: | Reviewed by:

Completed Date: 5/25/11 | Reviewed Date: 5/27/11

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen
Are matrices correctly identified on Chain of custody?	Yes ☑	No	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:	Samples were collected the same day and chilled.		
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To 14.1°
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: | SDG: KEY-URS120 | SAS:

Adjusted? _____ Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS120 S11

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

35259

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS120

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD NY.

SAMPLERS: (signature)/Client: DSWAN URS CORP.

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: KEVIN CONNARE

Phone Number: 716 856 5636.

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: BTEX PAH'S.	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
5/26/11	0925	GW	HIMW 14I	4		/	/				1105B49-005	
5/26/11	1200	GW	DUP11 0526	4		/	/				-006	
5/26/11	1150	GW	HIMW 14D	4		/	/				-004	
5/26/11	1330	GW	HIMW 23	4		/	/				-007	
5/26/11	1445	GW	HIMW 22	4		/	/				-010	
5/27/11	0930	GW	HIMW 5D	4		/	/				-002	
5/27/11	0900	GW	HIMW 5I	4		/	/				-003	
5/27/11	1020	GW	HIMW 35	4		/	/				-001	
5/19/11			TRIP BLANK	2		/					-009	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/27/11	14.06	S.WOA	5-27-11	14.06
S.WOA	5-27-11	15.52		5/27/11	15:52
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered X Airbill#_____
2. Ambient or chilled, Temp 4.6
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N N/A
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

KEY-URS 120

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 5/27/2011 3:52:00 PM

Work Order Numbe 1105B49 | RcptNo: 1 | Received by Tamika Ricks

Completed by: [signature] | Reviewed by: [signature]

Completed Date: 5/27/11 | Reviewed Date: 6/1/11

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To 11.6°
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: | SDG: KEY-URS120 | SAS:

Adjusted? _____ Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS120 S18

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

00404

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION | **H2M SDG NO:**

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD NY

SAMPLERS: (signature)/Client: D SWAIN URS Corp.

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: KEVIN CONNARE

Phone Number: 716 856 5636.

PIS/Quote # 11176098.

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
5/31/11	0930	GW	HIMW3I	4	/	/				1105846-002	
5/31/11	1045	GW	HIMW3D	4	/	/				-001	
5/31/11	1235	GW	HIMW12S	4	/	/				-004	
5/31/11	1200	GW	DUP110531	4	/	/				-005	
5/31/11	1355	GW	HIMW12I	4	/	/				-003	
5/A/11		GW	TRIP BLANK	2	/						

ANALYSIS REQUESTED

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/31/11	15.02	S.Wall	5-31-11	15.02
S.Wall	5-31-11	15.52		5/31/11	15:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 4.6 °C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N N/A
3. COC record present & complete upon sample receipt: (Y) or N

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KEY-URS120-S24

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 6/2/11 & 6/3/11
SDG #: KEY-URS126

For Sample(s):

HIMW-5S
HIMW-8D
HIMW-8I
HIMW-8S
HIMW-12D
FB
HIMW-20S
HIMW-20I

The above sample(s) was/were analyzed for a select list of volatile organic analytes by EPA method 8260B.

All QC data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-5S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 27, 2011

****
* *
* *
****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLES RECEIVED: 6/2/11 & 6/3/11
SDG #: KEY-URS126

For Sample(s):

HIMW-5S
HIMW-8D
HIMW-8I
HIMW-8S
HIMW-12D
FB
HIMW-20S
HIMW-20I

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes by EPA method 8270C.

All QC data and calibrations met the requirements of the method unless discussed below, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-5S was analyzed as the matrix spike. All percent recoveries and RPDs were met. Lab fortified blanks were analyzed and indicate good method efficiency.

Sample HIMW-20I was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: June 27, 2011

****
* *
* *
****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

30402

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION

H2M SDG NO: KEY-URS126

PROJECT NAME/NUMBER: NATIONAL GRID, HEMPSTEAD NY

SAMPLERS: (signature)/Client: D. SWAIN URS CORRATION

DELIVERABLES: STANDARD

TURNAROUND TIME: STANDARD.

NOTES:

Project Contact: KEVIN CONNARE

Phone Number: 716 856 5636

PIS/Quote #: 11176098.

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
6/2/11	0950	GW	HIMW 8D	4	✓	✓				1106129-002	
6/2/11	1000	GW	F.B	4	✓	✓				-006	
6/2/11	1045	GW	HIMW8I	4	✓	✓				-003	
6/2/11	1210	GW	HIMW8S	4	✓	✓				-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/2/11	14.26	S. Wall	6-2-11	14.26
S. Wall	6.2.11	15.37	M Hall	6-2-11	1537

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or (chilled), Temp (6°C + 1 ice cube)
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or (N)
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL KEY-URS126-33 YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

36463

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION | **H2M SDG NO:** KEY-URS126

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD

SAMPLERS: (signature)/Client: D. SWAIN / URS CORP

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: KEVIN GINNARE

Phone Number: 716 856 5636

PIS/Quote #: 11176098

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: BTEX	Sample Container Description: PAH's	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
6/1/11	0740	GW	HIMW 5S	4	✓	✓						1106129-001	
6/1/11	0740	GW	HIMW 5S MS	4	✓	✓						-	
6/1/11	0740	GW	HIMW 5S MSD	4	✓	✓						-	
6/1/11	0910	GW	HIMW 12D	4	✓	✓						-005	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/2/11	14.26	S. Wall	6.2.11	14.26
S. Wall	6.2.11	15.37 / 14.26	M. Watt	6/2/11	1537
	Date	Time		Date	Time
	Date	Time		Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or (chilled), Temp 6°C / 11°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or (N)
3. COC record present & complete upon sample receipt: (Y) or N

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KEY-URS126 S4

Key-URS126

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 6/2/2011 3:37:00 PM

Work Order Numbe 1106129 | RcptNo: 1 | Received by MelissaWatson

Completed by M. Watt | Reviewed by: JA

Completed Date: 6-2-11 | Reviewed Date: 6/7/11

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	6 To 11 °
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: SDG: KEY-URS126 SAS:

Adjusted? _____ Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS126 S5

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

36461

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS CORPORATION | **H2M SDG NO:** KEY-URS126

PROJECT NAME/NUMBER: NATIONAL GRID HEMPSTEAD NY

SAMPLERS: (signature)/Client: D. SWAIN URS CORP

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: KEVIN CONNARE

Phone Number: 716 856 3696

PIS/Quote # 11176098

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
6/3/11	8:35	GW	HIMW 20S	4	BTEX PAHS	1	1				110691-W1	
6/3/11	09:45	GW	HIMW 20I	4		1	1				110691-W2	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/3/11	14.10	S. Weed	6-3-11	14.10
S. Weed	6-3-11	15.35		6/3/11	15:35

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or chilled, Temp 11°C on ice
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

KEY-URS126 STT

KEY-URS 126

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name KEY-URS | Date and Time Receive 6/3/2011 3:35:00 PM

Work Order Numbe 1106191 | RcptNo: 1 | Received by Tamika Ricks

Completed by: [signature] | Reviewed by: [signature]

Completed Date: 6/3/11 | Reviewed Date: 6/7/11

Carrier name H2M Pickup

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Presen ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:	Samples were collected the same day and chilled.		
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To 11°
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present ☑
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: | SDG: KEY-URS126 | SAS:

Adjusted? | Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section be

KEY-URS126 S12

APPENDIX B

OXYGEN SYSTEM OPERATION & MAINTENANCE MEASUREMENTS

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	4/12/2011
Time:	1240
Weather:	Rain
Outdoor Temperature:	~45° F
Inside Trailer Temperature:	~75° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	3,498	
Feed Air Pressure *	110	(psi)
Cycle Pressure *	50	(psi)
Oxygen Receiver Pressure *	70	(psi)
Oxygen Purity	96.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
(readings below are made from control panel)		
Delivery Air	120	(psi)
Element Outlet Temperature	144	(^oF)
Running Hours	3,537	(hours)
Loading Hours	3,506	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	55	28	OW-2-9S	75'	30	20	OW-2-10D	97.2'	50	28
OW-2-3	94.3'	85	28	OW-2-10S	75'	30	28	OW-2-11D	100.8'	60	32
OW-2-4	94.7'	50	35	OW-2-11S	76.5'	25	21	OW-2-12	94'	55	19
OW-2-5	95.3'	40	30	OW-2-13S	75'	25	19	OW-2-13D	97'	50	34
OW-2-6	95.7'	45	30	OW-2-15S	75'	35	19	OW-2-14	96.4'	85	28
OW-2-7	96'	50	30	OW-2-16S	75.5'	28	19	OW-2-15D	94.6'	40	30
OW-2-8	96.3'	45	30	OW-2-18S	74.5'	30	19	OW-2-16D	94.1'	80	38
OW-2-9D	96.7'	45	30	OW-2-20S	79'	30	22	OW-2-17	95'	50	28

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/12/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	70	31	OW-2-22S	76'	30	19	OW-2-26D	95'	50	38
OW-2-19	96.1'	30	30	OW-2-24S	77.8'	40	22	OW-2-27	93.5'	35	28
OW-2-20D	96.6'	30	31	OW-2-26S	74'	50	18	OW-2-28D	92.1'	30	28
OW-2-21	96.6'	40	29	OW-2-28S	76'	50	20	OW-2-29	92.2'	50	29
OW-2-22D	96.3'	40	28	OW-2-30S	67.8'	40	18	OW-2-30D	88'	30	27
OW-2-23	97.2'	60	27	OW-2-34	71'	40	19	OW-2-31	86'	50	39
OW-2-24D	97'	40	29	OW-2-35	69.2'	45	23	OW-2-32	84'	45	42
OW-2-25	96'	65	28	OW-2-36	64.8'	30	21	OW-2-33	82'	30	38

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	40	19	OW-2-45	61.1'	35	21	MP-2-1	29.07	15.62	0
OW-2-38	62.1'	30	18	OW-2-46	61'	40	20	MP-2-2	30.15	27.80	0
OW-2-39	60'	50	17	OW-2-47	60.5'	30	19	MP-2-3S	30.28	48.68	0.1
OW-2-40	61.7'	40	19					MP-2-3D	30.52	49.10	0.1
OW-2-41	61.7'	40	18					MP-2-4	19.08	36.90	0
OW-2-42	61.6'	40	18					MP-2-5	17.27	18.37	0
OW-2-43	61.4'	35	19								
OW-2-44R	60.6'	30	18								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/12/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Alarm Code 0102 occurred on Saturday, March 26, 2011 at 1200AM. The alarm condition was for the compressor motor tripping out the breaker when it restarts to charge the air tanks. On Monday, March 28, 2011 F&N troubleshot the problem and pulled and reset all of the power wires on the compressor contacts to ensure that they we making accurate contact. Upon completion of this wire test, the system was restarted and monitored over the course of the week and the system operated without faults. Total downtime associated with this alarm condition was approximately 60 hours.

On Tuesday, April 5, 2011, F&N performed the 6-month maintenace on all system components as specifed in the O&M manual.

Cleaned up leaves around shed and fence enclosure.

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	4/28/2011
Time:	1231
Weather:	Rain
Outdoor Temperature:	~54° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	3,781	
Feed Air Pressure *	79	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	55	(psi)
Oxygen Purity	96.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	100	(psi)
(readings below are made from control panel)		
Delivery Air	125	(psi)
Element Outlet Temperature	171	(^oF)
Running Hours	3,829	(hours)
Loading Hours	3,792	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	40	28	OW-2-9S	75'	30	20	OW-2-10D	97.2'	60	28
OW-2-3	94.3'	90	32	OW-2-10S	75'	30	28	OW-2-11D	100.8'	65	33
OW-2-4	94.7'	40	36	OW-2-11S	76.5'	25	21	OW-2-12	94'	45	21
OW-2-5	95.3'	50	30	OW-2-13S	75'	28	19	OW-2-13D	97'	90	27
OW-2-6	95.7'	50	31	OW-2-15S	75'	40	20	OW-2-14	96.4'	64	28
OW-2-7	96'	50	30	OW-2-16S	75.5'	30	20	OW-2-15D	94.6'	80	29
OW-2-8	96.3'	50	30	OW-2-18S	74.5'	30	19	OW-2-16D	94.1'	85	38
OW-2-9D	96.7'	50	30	OW-2-20S	79'	30	22	OW-2-17	95'	40	30

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/28/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	60	34	OW-2-22S	76'	20	19	OW-2-26D	95'	65	39
OW-2-19	96.1'	30	30	OW-2-24S	77.8'	30	29	OW-2-27	93.5'	45	29
OW-2-20D	96.6'	40	31	OW-2-26S	74'	35	19	OW-2-28D	92.1'	30	28
OW-2-21	96.6'	40	29	OW-2-28S	76'	30	21	OW-2-29	92.2'	45	28
OW-2-22D	96.3'	40	28	OW-2-30S	67.8'	15	18	OW-2-30D	88'	25	27
OW-2-23	97.2'	40	34	OW-2-34	71'	25	19	OW-2-31	86'	50	39
OW-2-24D	97'	35	29	OW-2-35	69.2'	20	30	OW-2-32	84'	50	40
OW-2-25	96'	50	28	OW-2-36	64.8'	30	19	OW-2-33	82'	40	37

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	30	21	MP-2-1	28.55	13.80	0
OW-2-38	62.1'	35	19	OW-2-46	61'	30	20	MP-2-2	29.61	33.39	0.1
OW-2-39	60'	30	18	OW-2-47	60.5'	25	20	MP-2-3S	29.71	39.41	0.1
OW-2-40	61.7'	25	20					MP-2-3D	29.93	39.52	0
OW-2-41	61.7'	25	19					MP-2-4	18.46	32.39	0
OW-2-42	61.6'	25	20					MP-2-5	16.63	5.23	0
OW-2-43	61.4'	20	20								
OW-2-44R	60.6'	30	20								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 4/28/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes X No
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	5/13/2011
Time:	1045
Weather:	Rain
Outdoor Temperature:	~67° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	4,101	
Feed Air Pressure *	85	(psi)
Cycle Pressure *	68	(psi)
Oxygen Receiver Pressure *	82	(psi)
Oxygen Purity	97.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	95	(psi)
(readings below are made from control panel)		
Delivery Air	125	(psi)
Element Outlet Temperature	171	(^oF)
Running Hours	4,152	(hours)
Loading Hours	4,113	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	70	33	OW-2-9S	75'	30	20	OW-2-10D	97.2'	25	28
OW-2-3	94.3'	90	29	OW-2-10S	75'	30	26	OW-2-11D	100.8'	50	32
OW-2-4	94.7'	50	36	OW-2-11S	76.5'	30	21	OW-2-12	94'	50	22
OW-2-5	95.3'	50	30	OW-2-13S	75'	25	20	OW-2-13D	97'	85	27
OW-2-6	95.7'	50	30	OW-2-15S	75'	35	19	OW-2-14	96.4'	90	28
OW-2-7	96'	40	29	OW-2-16S	75.5'	40	20	OW-2-15D	94.6'	60	28
OW-2-8	96.3'	55	30	OW-2-18S	74.5'	40	20	OW-2-16D	94.1'	70	38
OW-2-9D	96.7'	60	30	OW-2-20S	79'	45	21	OW-2-17	95'	35	30

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/13/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	70	33	OW-2-22S	76'	30	19	OW-2-26D	95'	60	39
OW-2-19	96.1'	35	31	OW-2-24S	77.8'	30	30	OW-2-27	93.5'	50	29
OW-2-20D	96.6'	30	31	OW-2-26S	74'	35	19	OW-2-28D	92.1'	35	27
OW-2-21	96.6'	40	30	OW-2-28S	76'	39	21	OW-2-29	92.2'	30	28
OW-2-22D	96.3'	30	29	OW-2-30S	67.8'	40	19	OW-2-30D	88'	40	27
OW-2-23	97.2'	50	29	OW-2-34	71'	30	19	OW-2-31	86'	25	39
OW-2-24D	97'	40	29	OW-2-35	69.2'	35	29	OW-2-32	84'	50	40
OW-2-25	96'	60	29	OW-2-36	64.8'	30	19	OW-2-33	82'	45	37

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	35	20	OW-2-45	61.1'	30	21	MP-2-1	28.44	25.49	0
OW-2-38	62.1'	35	19	OW-2-46	61'	30	20	MP-2-2	29.52	32.89	0
OW-2-39	60'	30	19	OW-2-47	60.5'	25	20	MP-2-3S	29.62	49.12	0
OW-2-40	61.7'	25	20					MP-2-3D	29.86	49.21	0
OW-2-41	61.7'	35	19					MP-2-4	18.4	39.73	0
OW-2-42	61.6'	45	21					MP-2-5	16.63	14.35	0
OW-2-43	61.4'	50	20								
OW-2-44R	60.6'	30	20								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/13/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism Finding rocks, stick and wood thrown at shed from park. No damage ha been observed.
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	5/26/2011
Time:	1150
Weather:	Sunny
Outdoor Temperature:	~80° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	4,389	
Feed Air Pressure *	85	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	85	(psi)
Oxygen Purity	95.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	110	(psi)
(readings below are made from control panel)		
Delivery Air	105	(psi)
Element Outlet Temperature	171	(^{o}F)
Running Hours	4,441	(hours)
Loading Hours	4,401	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	55	31	OW-2-9S	75'	30	20	OW-2-10D	97.2'	40	28
OW-2-3	94.3'	90	29	OW-2-10S	75'	30	29	OW-2-11D	100.8'	30	32
OW-2-4	94.7'	55	36	OW-2-11S	76.5'	30	21	OW-2-12	94'	35	22
OW-2-5	95.3'	50	30	OW-2-13S	75'	40	20	OW-2-13D	97'	45	40
OW-2-6	95.7'	50	31	OW-2-15S	75'	35	19	OW-2-14	96.4'	55	30
OW-2-7	96'	50	30	OW-2-16S	75.5'	30	20	OW-2-15D	94.6'	60	31
OW-2-8	96.3'	50	31	OW-2-18S	74.5'	30	19	OW-2-16D	94.1'	60	37
OW-2-9D	96.7'	50	31	OW-2-20S	79'	35	23	OW-2-17	95'	40	30

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/26/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	60	30	OW-2-22S	76'	50	20	OW-2-26D	95'	50	36
OW-2-19	96.1'	40	30	OW-2-24S	77.8'	45	23	OW-2-27	93.5'	30	29
OW-2-20D	96.6'	45	31	OW-2-26S	74'	60	19	OW-2-28D	92.1'	30	29
OW-2-21	96.6'	40	29	OW-2-28S	76'	30	21	OW-2-29	92.2'	30	28
OW-2-22D	96.3'	40	29	OW-2-30S	67.8'	30	18	OW-2-30D	88'	30	27
OW-2-23	97.2'	50	33	OW-2-34	71'	35	20	OW-2-31	86'	40	31
OW-2-24D	97'	40	29	OW-2-35	69.2'	50	27	OW-2-32	84'	50	38
OW-2-25	96'	50	28	OW-2-36	64.8'	35	21	OW-2-33	82'	30	36

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	30	21	MP-2-1	28.20	14.20	0
OW-2-38	62.1'	28	19	OW-2-46	61'	30	21	MP-2-2	29.26	31.75	0
OW-2-39	60'	20	18	OW-2-47	60.5'	30	19	MP-2-3S	29.35	43.64	0
OW-2-40	61.7'	20	20					MP-2-3D	29.61	44.41	0
OW-2-41	61.7'	20	20					MP-2-4	18.13	45.41	0
OW-2-42	61.6'	30	20					MP-2-5	16.31	10.32	0
OW-2-43	61.4'	25	19								
OW-2-44R	60.6'	30	19								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/26/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) X Normal (green) High (orange)
3) Oil added Yes X No
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes X No
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Raked out fence areas of leaves and garbage. Baged up and transported to roll off container in Intersection Street Staging Yard.

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	6/10/2011
Time:	1140
Weather:	Sunny
Outdoor Temperature:	~78° F
Inside Trailer Temperature:	~71° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	4,724	
Feed Air Pressure *	70	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	100	(psi)
Oxygen Purity	98.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	90	(psi)
(readings below are made from control panel)		
Delivery Air	85	(psi)
Element Outlet Temperature	172	(^{o}F)
Running Hours	4,778	(hours)
Loading Hours	4,737	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	70	28	OW-2-9S	75'	25	20	OW-2-10D	97.2'	80	24
OW-2-3	94.3'	90	38	OW-2-10S	75'	30	27	OW-2-11D	100.8'	40	32
OW-2-4	94.7'	70	37	OW-2-11S	76.5'	30	22	OW-2-12	94'	35	22
OW-2-5	95.3'	50	31	OW-2-13S	75'	40	20	OW-2-13D	97'	30	32
OW-2-6	95.7'	50	31	OW-2-15S	75'	60	19	OW-2-14	96.4'	50	29
OW-2-7	96'	50	30	OW-2-16S	75.5'	40	19	OW-2-15D	94.6'	70	30
OW-2-8	96.3'	60	30	OW-2-18S	74.5'	50	19	OW-2-16D	94.1'	80	37
OW-2-9D	96.7'	50	30	OW-2-20S	79'	55	22	OW-2-17	95'	30	30

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/10/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	60	32	OW-2-22S	76'	20	20	OW-2-26D	95'	35	35
OW-2-19	96.1'	35	30	OW-2-24S	77.8'	25	22	OW-2-27	93.5'	30	28
OW-2-20D	96.6'	40	31	OW-2-26S	74'	30	20	OW-2-28D	92.1'	30	28
OW-2-21	96.6'	40	29	OW-2-28S	76'	25	22	OW-2-29	92.2'	25	29
OW-2-22D	96.3'	40	28	OW-2-30S	67.8'	20	18	OW-2-30D	88'	30	27
OW-2-23	97.2'	45	36	OW-2-34	71'	30	20	OW-2-31	86'	30	37
OW-2-24D	97'	30	29	OW-2-35	69.2'	40	36	OW-2-32	84'	40	39
OW-2-25	96'	50	31	OW-2-36	64.8'	30	20	OW-2-33	82'	40	32

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	30	20	OW-2-45	61.1'	35	20	MP-2-1	28.43	12.51	38.7
OW-2-38	62.1'	25	19	OW-2-46	61'	30	19	MP-2-2	29.48	7.21	0
OW-2-39	60'	30	18	OW-2-47	60.5'	30	19	MP-2-3S	29.60	8.68	0
OW-2-40	61.7'	20	20					MP-2-3D	29.83	11.91	0
OW-2-41	61.7'	20	20					MP-2-4	18.35	11.05	1.4
OW-2-42	61.6'	30	20					MP-2-5	16.58	8.46	73.8
OW-2-43	61.4'	30	20								
OW-2-44R	60.6'	30	20								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/10/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Buildup of sticks, rocks wood and general garbage thrown inside fence enclosure. Bagged up and transported to roll off container in Intersection Street Staging Yard.

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	6/24/2011
Time:	1114
Weather:	Rain
Outdoor Temperature:	~70° F
Inside Trailer Temperature:	~72° F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	5,051	
Feed Air Pressure *	54	(psi)
Cycle Pressure *	58	(psi)
Oxygen Receiver Pressure *	105	(psi)
Oxygen Purity	94.9	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	79	(psi)
(readings below are made from control panel)		
Delivery Air	102	(psi)
Element Outlet Temperature	169	(^oF)
Running Hours	5,106	(hours)
Loading Hours	5,064	(hours)

* maximum reading during loading cycle

O_2 Injection System #2

Injection Bank A				Injection Bank B				Injection Bank C			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-2	90.2'	70	27	OW-2-9S	75'	40	20	OW-2-10D	97.2'	40	28
OW-2-3	94.3'	90	19	OW-2-10S	75'	40	29	OW-2-11D	100.8'	45	31
OW-2-4	94.7'	70	33	OW-2-11S	76.5'	40	21	OW-2-12	94'	50	22
OW-2-5	95.3'	50	30	OW-2-13S	75'	60	19	OW-2-13D	97'	55	27
OW-2-6	95.7'	50	31	OW-2-15S	75'	60	21	OW-2-14	96.4'	50	27
OW-2-7	96'	50	30	OW-2-16S	75.5'	40	20	OW-2-15D	94.6'	40	29
OW-2-8	96.3'	50	30	OW-2-18S	74.5'	40	19	OW-2-16D	94.1'	30	29
OW-2-9D	96.7'	50	30	OW-2-20S	79'	40	23	OW-2-17	95'	60	29

Comments: All injection point flows were adjusted to ~30 scfh at Injection Bank B and to ~50 scfh at Injection Banks A & C after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/24/2011

O_2 Injection System #2

Injection Bank D				Injection Bank E				Injection Bank F			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-2-18D	95.5'	80	29	OW-2-22S	76'	60	19	OW-2-26D	95'	50	34
OW-2-19	96.1'	50	30	OW-2-24S	77.8'	60	22	OW-2-27	93.5'	40	29
OW-2-20D	96.6'	50	32	OW-2-26S	74'	50	18	OW-2-28D	92.1'	40	28
OW-2-21	96.6'	40	29	OW-2-28S	76'	40	21	OW-2-29	92.2'	35	28
OW-2-22D	96.3'	40	29	OW-2-30S	67.8'	35	17	OW-2-30D	88'	40	27
OW-2-23	97.2'	55	33	OW-2-34	71'	40	20	OW-2-31	86'	50	35
OW-2-24D	97'	40	29	OW-2-35	69.2'	40	32	OW-2-32	84'	50	39
OW-2-25	96'	50	29	OW-2-36	64.8'	30	20	OW-2-33	82'	40	37

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Injection Bank G				Injection Bank H				Monitoring Points Log			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	DTW	DO (mg/L)	PID (ppm)
OW-2-37	62.8'	40	20	OW-2-45	61.1'	30	20	MP-2-1	28.54	15.18	214.4
OW-2-38	62.1'	40	19	OW-2-46	61'	40	19	MP-2-2	29.61	21.12	0
OW-2-39	60'	50	18	OW-2-47	60.5'	40	19	MP-2-3S	29.71	12.13	7.1
OW-2-40	61.7'	40	20					MP-2-3D	29.97	15.79	10.2
OW-2-41	61.7'	45	19					MP-2-4	18.47	9.41	149.4
OW-2-42	61.6'	35	19					MP-2-5	16.70	11.20	157.1
OW-2-43	61.4'	30	20								
OW-2-44R	60.6'	30	19								

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. CNL = Could not locate due to snow and ice.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #2

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/24/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) Normal (green) X High (orange)
3) Oil added Yes No X
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Met with Pat Van Rossem and installed signs on shed doors at both systems.

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	5/20/2011
Time:	1320
Weather:	Sunny
Outdoor Temperature:	~65°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	124	
Feed Air Pressure *	110	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	50	(psi)
Oxygen Purity	91.2	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	95	(psi)
(readings below are made from control panel)		
Delivery Air	125	(psi)
Element Outlet Temperature	176	(^{o}F)
Running Hours	135	(hours)
Loading Hours	91	(hours)

* maximum reading during loading cycle

O_2 Injection System #1

Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	30	OW-1-5S	67.3	25	18	OW-1-9D	88.5	50	27
OW-1-2	96.5	35	31	OW-1-6S	67.0	30	18	OW-1-10D	87.2	50	27
OW-1-3	96.3	OFF	OFF	OW-1-7S	66.9	35	17	OW-1-11D	86.1	55	30
OW-1-4	95.0	30	31	OW-1-8S	66.7	30	18	OW-1-12D	85.3	50	30
OW-1-5D	93.9	35	30	OW-1-9S	66.0	40	19	OW-1-13D	84.7	60	29
OW-1-6D	92.4	35	29	OW-1-10S	54.6	35	15	OW-1-14D	84.1	60	30
OW-1-7D	91.1	30	29	OW-1-11S	54.1	30	16	OW-1-15D	83.3	30	29
OW-1-8D	89.6	40	29	OW-1-12S	53.6	30	17	OW-1-16D	82.5	OFF	OFF

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. Injection points OW-1-3 and OW-1-16D did not indicate pressure on or flow during the O&M event and appear to be leaking. A separate visit will be conducted to investigate these injection points.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/20/2011

O_2 Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	14	OW-1-17D	79.5	35	16	OW-1-21S	49.3	40	12
OW-1-14S	52.7	20	15	OW-1-18D	78.3	40	26	OW-1-22S	49.3	40	12
OW-1-15S	52.2	25	14	OW-1-19D	78.9	35	27	OW-1-23S	48.8	40	12
OW-1-16SR	51.8	40	26	OW-1-20D	79.5	45	28	OW-1-24S	48.4	40	12
OW-1-17S	50.7	45	24	OW-1-21D	79.5	30	28	OW-1-25S	48.8	30	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	20	27	OW-1-26SR	48.3	35	13
OW-1-19S	49.7	OFF	OFF	OW-1-23D	78.7	40	27	OW-1-27S	48.3	40	13
OW-1-20S	49.3	25	14	OW-1-24D	78.2	30	28	OW-1-28S	48.3	40	13

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings. Injection point OW-1-19S did not indicate pressure on or flow during the O&M event and appears to be leaking. A separate visit will be conducted to investigate this injection point.

O_2 Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	27	OW-1-29S	48.5	35	13	OW-1-33D	83.2	35	29
OW-1-26D	78.1	30	29	OW-1-30S	48.8	30	13	OW-1-34D	84.5	30	29
OW-1-27D	77.9	55	34	OW-1-31S	49.3	30	13	OW-1-35D	85.0	60	27
OW-1-28D	78.0	40	27	OW-1-32S	49.3	25	12	OW-1-36D	85.0	35	29
OW-1-29D	78.4	25	26	OW-1-33S	49.7	30	13	OW-1-37D	84.0	35	29
OW-1-30D	79.0	50	40	OW-1-34S	50.1	35	12	OW-1-38D	82.0	50	34
OW-1-31D	80.5	40	27	OW-1-35S	50.3	40	13	OW-1-39D	78.0	40	28
OW-1-32D	81.6	50	28	OW-1-36S	50.3	20	13	OW-1-40D	76.0	50	28

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/20/2011

O_2 Injection System #1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	40	22	OW-1-43	67.4	40	19
OW-1-38S	50.6	20	13	OW-1-42D	71.0	35	21	OW-1-44	66.6	35	18
OW-1-39S	50.7	40	12	OW-1-45	65.7	45	19	OW-1-51R	60.6	45	18
OW-1-40S	51.1	30	12	OW-1-46	64.3	40	18	OW-1-52	59.3	30	17
OW-1-41S	51.5	30	13	OW-1-47	63.4	50	18	OW-1-53	60.0	35	17
OW-1-42S	51.3	40	12	OW-1-48	62.5	55	18	OW-1-54	60.0	45	17
				OW-1-49	61.5	40	17				
				OW-1-50	61.0	40	17				

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Monitoring Points Log				Monitoring Points Log							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	25.17	33.32	0.0	MP-1-5	NA	NA	NA				
MP-1-1S	25.29	34.87	0.0	MP-1-6	17.20	20.87	0.0				
MP-1-2D	19.44	47.14	0.0	MP-1-7	20.50	0.61	0.0				
MP-1-2S	19.71	29.27	0.0	MP-1-8	21.47	2.67	0.0				
MP-1-3D	17.47	4.61	0.0								
MP-1-3S	17.46	7.74	0.0								
MP-1-4D	20.12	39.79	0.0								
MP-1-4S	19.94	7.02	0.0								

Comments:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/20/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ Normal (green) X High (orange) ____
3) Oil added Yes ____ No X
4) Oil changed Yes ____ No X
5) Oil filter changed Yes ____ No X
6) Air filter Changed Yes ____ No X
7) Oil separator changed Yes ____ No X
8) Terminal strips checked Yes X No ____

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No X
2) Coalescing changed Yes ____ No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No ____
2) Abnormal conditions observed (e.g. vandalism) ____
3) Other major activities completed ____
4) Supplies needed ____
5) Visitors ____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Found tire tracks running thru newly seeded areas at top of access road. Areas were raked out and reseeded.

Action Items:

Need to adjust discharge hoses from auto drains that feed into waste container as they are leaking water.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	5/27/2011
Time:	1320
Weather:	Sunny
Outdoor Temperature:	~80°F
Inside Trailer Temperature:	~70°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	219.9	
Feed Air Pressure *	95	(psi)
Cycle Pressure *	70	(psi)
Oxygen Receiver Pressure *	90	(psi)
Oxygen Purity	95.6	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	100	(psi)
(readings below are made from control panel)		
Delivery Air	118	(psi)
Element Outlet Temperature	176	(^{o}F)
Running Hours	242	(hours)
Loading Hours	161	(hours)

* maximum reading during loading cycle

O_2 Injection System #1

Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	31	OW-1-5S	67.3	30	18	OW-1-9D	88.5	35	28
OW-1-2	96.5	30	32	OW-1-6S	67.0	35	18	OW-1-10D	87.2	35	28
OW-1-3	96.3	30	31	OW-1-7S	66.9	40	18	OW-1-11D	86.1	35	30
OW-1-4	95.0	40	31	OW-1-8S	66.7	35	18	OW-1-12D	85.3	30	29
OW-1-5D	93.9	35	30	OW-1-9S	66.0	30	17	OW-1-13D	84.7	20	28
OW-1-6D	92.4	40	30	OW-1-10S	54.6	30	15	OW-1-14D	84.1	35	30
OW-1-7D	91.1	30	29	OW-1-11S	54.1	30	15	OW-1-15D	83.3	30	29
OW-1-8D	89.6	30	29	OW-1-12S	53.6	30	15	OW-1-16D	82.5	50	16

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/27/2011

O_2 Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	35	13	OW-1-17D	79.5	40	14	OW-1-21S	49.3	30	12
OW-1-14S	52.7	45	14	OW-1-18D	78.3	30	27	OW-1-22S	49.3	35	12
OW-1-15S	52.2	40	13	OW-1-19D	78.9	25	28	OW-1-23S	48.8	25	12
OW-1-16SR	51.8	40	24	OW-1-20D	79.5	30	28	OW-1-24S	48.4	30	13
OW-1-17S	50.7	30	24	OW-1-21D	79.5	30	27	OW-1-25S	48.8	30	13
OW-1-18S	50.2	30	13	OW-1-22D	79.5	30	27	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	35	13	OW-1-23D	78.7	30	27	OW-1-27S	48.3	30	13
OW-1-20S	49.3	45	12	OW-1-24D	78.2	30	27	OW-1-28S	48.3	35	13

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	28	OW-1-29S	48.5	25	12	OW-1-33D	83.2	30	30
OW-1-26D	78.1	40	35	OW-1-30S	48.8	25	12	OW-1-34D	84.5	30	30
OW-1-27D	77.9	45	40	OW-1-31S	49.3	30	13	OW-1-35D	85.0	50	28
OW-1-28D	78.0	35	37	OW-1-32S	49.3	30	12	OW-1-36D	85.0	35	29
OW-1-29D	78.4	30	37	OW-1-33S	49.7	25	12	OW-1-37D	84.0	20	29
OW-1-30D	79.0	35	40	OW-1-34S	50.1	25	12	OW-1-38D	82.0	40	37
OW-1-31D	80.5	30	30	OW-1-35S	50.3	25	12	OW-1-39D	78.0	30	28
OW-1-32D	81.6	30	28	OW-1-36S	50.3	25	12	OW-1-40D	76.0	50	30

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/27/2011

O_2 Injection System #1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	35	12	OW-1-41D	73.6	25	24	OW-1-43	67.4	30	19
OW-1-38S	50.6	30	12	OW-1-42D	71.0	25	23	OW-1-44	66.6	30	18
OW-1-39S	50.7	35	12	OW-1-45	65.7	25	20	OW-1-51R	60.6	30	17
OW-1-40S	51.1	30	13	OW-1-46	64.3	25	18	OW-1-52	59.3	40	16
OW-1-41S	51.5	30	13	OW-1-47	63.4	30	18	OW-1-53	60.0	30	16
OW-1-42S	51.3	30	12	OW-1-48	62.5	30	18	OW-1-54	60.0	25	16
				OW-1-49	61.5	30	18				
				OW-1-50	61.0	40	18				

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Monitoring Points Log				Monitoring Points Log							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	24.97	26.39	0.0	MP-1-5	NA	NA	NA				
MP-1-1S	25.10	17.23	0.0	MP-1-6	19.25	9.48	0.0				
MP-1-2D	19.39	25.24	0.0	MP-1-7	20.49	1.65	0.0				
MP-1-2S	19.72	13.41	0.0	MP-1-8	21.53	5.21	0.0				
MP-1-3D	17.48	9.04	0.0								
MP-1-3S	17.50	7.68	0.0								
MP-1-4D	20.04	48.14	0.0								
MP-1-4S	20.01	6.12	0.0								

Comments: DO readings were collected at the following depths: MP-1-1S (96 feet), MP-1-1D (66 feet), MP-1-2S (81 feet), MP-1-2D (46 feet), MP-1-3S (79 feet), MP-1-3D (49 feet), MP-1-4S (83 feet), MP-1-4D (53 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

Monitoing point MP-1-5 is covered by construction materials and not accessible.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 5/27/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) ____ Normal (green) X High (orange) ____
3) Oil added Yes ____ No X
4) Oil changed Yes ____ No X
5) Oil filter changed Yes ____ No X
6) Air filter Changed Yes ____ No X
7) Oil separator changed Yes ____ No X
8) Terminal strips checked Yes X No ____

AS-80 O_2 Generator

1) Prefilter changed Yes ____ No X
2) Coalescing changed Yes ____ No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No ____
2) Abnormal conditions observed (e.g. vandalism) ____
3) Other major activities completed ____
4) Supplies needed ____
5) Visitors ____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items:

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date:	6/23/2011
Time:	1225
Weather:	Rain
Outdoor Temperature:	~68°F
Inside Trailer Temperature:	~72°F
Performed By:	Mike Ryan

O_2 Generator (AirSep)

Hours	589.4	
Feed Air Pressure *	70	(psi)
Cycle Pressure *	60	(psi)
Oxygen Receiver Pressure *	110	(psi)
Oxygen Purity	94.7	(percent)

* maximum reading during loading cycle

Compressor (Kaesar Rotary Screw)

Compressor Tank *	120	(psi)
(readings below are made from control panel)		
Delivery Air	112	(psi)
Element Outlet Temperature	138	(^{o}F)
Running Hours	737	(hours)
Loading Hours	529	(hours)

* maximum reading during loading cycle

O_2 Injection System #1

Injection Bank 1				Injection Bank 2				Injection Bank 3			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-1	95.5	30	28	OW-1-5S	67.3	40	18	OW-1-9D	88.5	38	27
OW-1-2	96.5	30	32	OW-1-6S	67.0	40	18	OW-1-10D	87.2	38	28
OW-1-3	96.3	35	32	OW-1-7S	66.9	40	18	OW-1-11D	86.1	35	30
OW-1-4	95.0	40	31	OW-1-8S	66.7	35	19	OW-1-12D	85.3	40	29
OW-1-5D	93.9	40	30	OW-1-9S	66.0	38	19	OW-1-13D	84.7	40	29
OW-1-6D	92.4	40	29	OW-1-10S	54.6	40	14	OW-1-14D	84.1	35	30
OW-1-7D	91.1	35	29	OW-1-11S	54.1	40	16	OW-1-15D	83.3	40	29
OW-1-8D	89.6	40	29	OW-1-12S	53.6	30	16	OW-1-16D	82.5	35	16

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/23/2011

O_2 Injection System #1

Injection Bank 4				Injection Bank 5				Injection Bank 6			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-13S	53.1	30	27	OW-1-17D	79.5	40	12	OW-1-21S	49.3	30	11
OW-1-14S	52.7	30	32	OW-1-18D	78.3	40	12	OW-1-22S	49.3	40	12
OW-1-15S	52.2	40	35	OW-1-19D	78.9	40	12	OW-1-23S	48.8	35	12
OW-1-16SR	51.8	30	38	OW-1-20D	79.5	35	12	OW-1-24S	48.4	35	12
OW-1-17S	50.7	40	37	OW-1-21D	79.5	30	12	OW-1-25S	48.8	30	13
OW-1-18S	50.2	40	40	OW-1-22D	79.5	30	12	OW-1-26SR	48.3	30	13
OW-1-19S	49.7	40	27	OW-1-23D	78.7	35	12	OW-1-27S	48.3	35	13
OW-1-20S	49.3	40	28	OW-1-24D	78.2	40	13	OW-1-28S	48.3	30	13

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #1

Injection Bank 7				Injection Bank 8				Injection Bank 9			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-25D	78.1	30	27	OW-1-29S	48.5	30	12	OW-1-33D	83.2	35	30
OW-1-26D	78.1	50	33	OW-1-30S	48.8	40	12	OW-1-34D	84.5	35	29
OW-1-27D	77.9	90	36	OW-1-31S	49.3	30	12	OW-1-35D	85.0	50	30
OW-1-28D	78.0	35	38	OW-1-32S	49.3	30	12	OW-1-36D	85.0	30	30
OW-1-29D	78.4	30	37	OW-1-33S	49.7	30	13	OW-1-37D	84.0	30	29
OW-1-30D	79.0	80	40	OW-1-34S	50.1	30	12	OW-1-38D	82.0	50	35
OW-1-31D	80.5	55	28	OW-1-35S	50.3	30	13	OW-1-39D	78.0	30	27
OW-1-32D	81.6	30	28	OW-1-36S	50.3	30	12	OW-1-40D	76.0	45	30

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/23/2011

O_2 Injection System #1

Injection Bank 10				Injection Bank 11				Injection Bank 12			
ID	Depth	scfh	psi	ID	Depth	scfh	psi	ID	Depth	scfh	psi
OW-1-37S	50.5	30	12	OW-1-41D	73.6	35	24	OW-1-43	67.4	25	20
OW-1-38S	50.6	30	12	OW-1-42D	71.0	40	22	OW-1-44	66.6	25	18
OW-1-39S	50.7	40	12	OW-1-45	65.7	40	19	OW-1-51R	60.6	35	17
OW-1-40S	51.1	30	13	OW-1-46	64.3	25	18	OW-1-52	59.3	30	13
OW-1-41S	51.5	35	12	OW-1-47	63.4	30	18	OW-1-53	60.0	30	17
OW-1-42S	51.3	30	13	OW-1-48	62.5	30	18	OW-1-54	60.0	85	17
				OW-1-49	61.5	30	17				
				OW-1-50	61.0	30	17				

Comments: All injection point flows were adjusted to ~30 scfh after collecting readings.

O_2 Injection System #2

Monitoring Points Log				Monitoring Points Log							
ID	DTW	DO (mg/L)	PID (ppm)	ID	DTW	DO (mg/L)	PID (ppm)				
MP-1-1D	25.27	9.39	1.6	MP-1-5	25.03	10.39	104.2				
MP-1-1S	25.49	8.51	3.0	MP-1-6	17.53	9.20	41.2				
MP-1-2D	19.72	21.97	2.8	MP-1-7	20.85	1.07	7.2				
MP-1-2S	19.97	12.03	5.4	MP-1-8	21.82	21.06	11.4				
MP-1-3D	17.77	47.52	8.5								
MP-1-3S	17.78	21.14	3.3								
MP-1-4D	20.46	20.36	54.5								
MP-1-4S	20.29	7.16	279.7								

Comments: DO readings were collected at the following depths: MP-1-1S (96 feet), MP-1-1D (66 feet), MP-1-2S (81 feet), MP-1-2D (46 feet), MP-1-3S (79 feet), MP-1-3D (49 feet), MP-1-4S (83 feet), MP-1-4D (53 feet), MP-1-5 (78 feet), MP-1-6 (61 feet), MP-1-7 (64 feet) and MP-1-8 (58 feet).

OXYGEN INJECTION OPERATION MAINTENANCE LOG SHEET

SYSTEM #1

Hempstead Intersection Street
Former MGP Site
Nassau County, New York

Date: 6/23/2011

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes X No
   * Unload system, wait until Delivery Air Pressure is less than 9 psi
2) Oil Level with system unloaded
   Low (red) X Normal (green) High (orange)
3) Oil added Yes X No
4) Oil changed Yes No X
5) Oil filter changed Yes No X
6) Air filter Changed Yes No X
7) Oil separator changed Yes No X
8) Terminal strips checked Yes X No

AS-80 O_2 Generator

1) Prefilter changed Yes No X
2) Coalescing changed Yes No X

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
   Yes X No
2) Abnormal conditions observed (e.g. vandalism)
3) Other major activities completed
4) Supplies needed
5) Visitors

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items: