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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

Villages of Hempstead & Garden City
Nassau County, New York

Prepared for:

National Grid
175 East Old Country Road
Hicksville, New York 11801

Prepared by:

URS Corporation - New York
77 Goodell Street
Buffalo, New York 14203

URS

April 2010

GROUNDWATER SAMPLING AND NAPL MONITORING/RECOVERY REPORT FOR THE FIRST QUARTER OF 2010 (JANUARY- MARCH)

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

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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 first quarter (January, February, and March) of 2010.

Groundwater monitoring and sampling was conducted on January 5 to 26, 2010. This included measuring the depth to groundwater and NAPL thickness in 67 wells. Groundwater samples were collected from 16 wells and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs).

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

- The general direction of groundwater flow in shallow, intermediate, and deep water-bearing zones was south at an average gradient of approximately 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 28 wells during the first quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells ranged from approximately 7 to 18 gallons per event. Approximately 69 gallons of NAPL were recovered during the first quarter of 2010. Approximately 488 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the first quarter 2010 data and the previous data the concentrations of dissolved phase total BTEX and total PAHs remained stable in the site monitoring wells.

1.0 INTRODUCTION

This groundwater sampling and NAPL monitoring/recovery report describes field activities, presents field measurements, NAPL recovery volumes, and 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 first quarter of 2010:

- Measured the depth to groundwater and NAPL thickness in accessible monitoring wells (January 5-26, 2010).
- Collected groundwater samples from 16 monitoring wells for laboratory analysis (January 5 to 17, 2010).
- Recovered NAPL from monitoring wells and piezometers (January 10, January 26, February 8, February 20, March 7, and March 20, 2010).

Quarterly groundwater monitoring and bimonthly recovery of NAPL was initiated in April 2007. Separate reports have been issued for quarterly activities performed in 2007, 2008, and 2009, and annual reports were issued that encompassed the last three quarters of 2007 and all four quarters of 2008 and 2009.

2.0 FIELD ACTIVITIES

The field activities performed by URS are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 67 monitoring wells.
- Collection of groundwater samples from 16 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.

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 an oil/water interface probe and a weighted cotton string coated with oil indicator paste.

2.2 NAPL Recovery

NAPL was recovered from 22 wells during 6 events from January to March 2010 (Table 3). All measured NAPL consisted of dense non-aqueous phase liquid (DNAPL) located at the bottom of the wells. The DNAPL was recovered using a Waterra inertial lift pump. The quantity of the recovered NAPL was estimated based on the volume contained inside the well prior to pumping.

2.3 Ground Water 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), 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 (USEPA Method 8260B) and PAHs (USEPA Method 8270C) (Table 4).

3.0 RESULTS

3.1 Dissolved-Phase Plume

The extent of the dissolved-phase plume is shown on Figure 3. 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 January 2010, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from "not detected" (deep well, HIMW-15D) to 11 µg/L (intermediate well, HIMW-15I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from "not detected" to 3,047 µg/L.

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 on Figures 4, 5, and 6, respectively. The figures indicate that the direction of groundwater flow within the well field was south at an average gradient of approximately 0.002 ft/ft.

DNAPL was detected in 28 wells during the first quarter 2010 (Table 3). Figure 7 illustrates the thickness of DNAPL that was measured on January 26, 2010. Figures 8A – 8AF provide cumulative NAPL recovery and NAPL thickness plots for the period December 2003 to March 2010. 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 Figure 7.

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 Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports, December 2002. An electronic copy of the DUSR is included as Attachment 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 69 gallons of NAPL were recovered from 22 wells (Table 3). The volume of NAPL recovered varied from approximately 7 to 18 gallons per event. Approximately 488 gallons of NAPL have been recovered since April 2007.

4.0 SUMMARY

Following is a summary of the first quarter 2010 groundwater sampling and NAPL monitoring/recovery data presented in this report.

- The general direction of groundwater flow in the shallow, intermediate, and deep water-bearing zones was south at an average gradient of 0.002 ft/ft.
- The dissolved-phase plume extended approximately 3,600 feet south of the site boundary.
- DNAPL was detected in 28 wells during the first quarter of 2010. The wells were located on site or within the parking lot immediately south of the site.
- The volume of NAPL recovered from the site wells varied from approximately 7 to 18 gallons per event. Approximately 69 gallons of NAPL were recovered during the first quarter of 2010. Approximately 488 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the first quarter 2010 data and the previous data the concentrations of total BTEX and total PAHs remained stable in the site monitoring wells.

TABLES

Table 1

Hempstead Intersection Street Former MGP Site
Summary of Field Activities for the First Quarter 2010

Well ID	Monitoring & Sampling (January 5-26, 2010)			NAPL Monitoring and Recovery					
	Groundwater Level	NAPL Thickness	Water Quality	March 20, 2010	March 7, 2010	Feb. 20, 2010	Feb. 8, 2010	Jan. 26, 2010	Jan. 10, 2010
HIMW-001S	X	X				O		X	
HIMW-001I	X	X		X		O	X	X	X
HIMW-001D									
HIMW-002S									
HIMW-002I									
HIMW-002D									
HIMW-003S									
HIMW-003I									
HIMW-003D									
HIMW-004S	X	X							
HIMW-004I									
HIMW-004D									
HIMW-005S	X	X	X						
HIMW-005I	X	X	X						
HIMW-005D			X						
HIMW-006S	X	X		X	X	O	X	X	X
HIMW-006I	X	X				O		X	
HIMW-006D									
HIMW-007S	X	X		X	X	O	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						
HIMW-009S									
HIMW-009I									
HIMW-009D									
HIMW-010S									
HIMW-010I									
HIMW-010D									
HIMW-011S	X	X						X	
HIMW-011I	X	X						X	
HIMW-011D									
HIMW-012S	X	X	X						
HIMW-012I	X	X	X						
HIMW-012D	X	X	X						
HIMW-013S									
HIMW-013I	X	X	X						
HIMW-013D	X	X	X						
HIMW-014I	X	X	X						
HIMW-014D									
HIMW-015I	X	X	X						
HIMW-015D	X	X	X						
HIMW-016S	X	X		X	X	X	X	X	X
HIMW-016I	X	X		X	X	X	X	X	X
HIMW-017S	X	X		X	X	X	X	X	X

Table 1

Hempstead Intersection Street Former MGP Site
Summary of Field Activities for the First Quarter 2010

Well ID	Monitoring & Sampling (January 5-26, 2010)			NAPL Monitoring and Recovery					
	Groundwater Level	NAPL Thickness	Water Quality	March 20, 2010	March 7, 2010	Feb. 20, 2010	Feb. 8, 2010	Jan. 26, 2010	Jan. 10, 2010
HIMW-018S	X	X				O	X	X	
HIMW-018I	X	X				X		X	
HIMW-019S	X	X				X	X	X	
HIMW-019I	X	X				X		X	
HIMW-020S	X	X	X						
HIMW-020I	X	X	X						
HIMW-21	X	X			X		X	X	
PZ-02									
PZ-03									
PZ-08	X	X		X	X	O	X	X	X
IPR-01	X	X							
IPR-02	X	X		X		O		X	X
IPR-03	X	X							
IPR-04	X	X							
IPR-05	X	X				O		X	
IPR-06	X	X		X	X	O	X	X	X
IPR-07	X	X							
IPR-08	X	X							
IPR-09	X	X				X		X	
IPR-10	X	X							
IPR-11	X	X							
IPR-12A	X	X				X		X	
IPR-12B	X	X							
IPR-13	X	X							
IPR-14	X	X		X				X	
IPR-15	X	X		X		X		X	
IPR-16	X	X		X		X	X	X	
IPR-17	X	X		X		X		X	
IPR-18	X	X		X		X		X	
IPR-19S						X			
IPR-19D	X	X		X				X	
IPR-20	X	X		X	X	X	X	X	
IPR-21	X	X		X	X	X	X	X	X
IPR-22	X	X		X	X	X	X	X	X
IPR-23	X	X		X					
IPR-24	X	X		X		X	X	X	
IPR-25	X	X		X	X	O	X	X	X
IPR-26	X	X						X	
IPR-27	X	X						X	
IPR-28	X	X							
IPR-29	X	X		X	X	X	X	X	
IPR-30	X	X							
OSMW-01	X	X							
OSMW-02	X	X							
OSMW-03	X	X							

Notes:

1 Field marked with "X" indicates that the activity was performed.
2 Field marked with "O" indicates that only NAPL monitoring was performed (no product recovery due to snow).
3 Blank field indicates that the activity was not performed.

Table 2
Groundwater and NAPL Measurements
First Quarter 2010
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 (2)	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-001S	1/26/2010	71.61	ND	25.62	40.85	40.9	0	0.01	45.99
HIMW-001I	1/26/2010	71.68	ND	25.81	85.45	85.9	0	0.40	45.87
HIMW-001D	NM	71.95	ND	NM	ND	129.1	0	0.00	NM
HIMW-002S	NM	73.82	ND	NM	ND	42.4	0	0.00	NM
HIMW-002I	NM	78.87	ND	NM	ND	92.9	0	0.00	NM
HIMW-002D	NM	74.13	ND	NM	ND	119.0	0	0.00	NM
HIMW-003S	NM	65.00	ND	NM	ND	34.8	0	0.00	NM
HIMW-003I	NM	64.94	ND	NM	ND	87.1	0	0.00	NM
HIMW-003D	NM	65.26	ND	NM	ND	145.5	0	0.00	NM
HIMW-004S	1/13/2010	72.74	ND	27.74	ND	41.7	0	0.00	45.00
HIMW-004I	NM	72.78	ND	NM	ND	90.6	0	0.00	NM
HIMW-004D	NM	72.65	ND	NM	ND	180.5	0	0.00	NM
HIMW-005S	1/17/2010	67.19	ND	22.08	ND	39.1	0	0.00	45.11
HIMW-005I	1/10/2010	67.22	ND	22.50	ND	92.3	0	0.00	44.72
HIMW-005D	NM	67.22	ND	NM	ND	139.0	0	0.00	NM
HIMW-006S	1/26/2010	68.25	ND	22.72	32.35	36.9	0	4.55	45.53
HIMW-006I	1/26/2010	67.88	ND	22.46	82.17	82.2	0	0.01	45.42
HIMW-006D	NM	67.77	ND	NM	ND	120.0	0	0.00	NM
HIMW-007S	1/26/2010	70.47	ND	24.91	39.54	40.7	0	1.20	45.56
HIMW-007I	1/26/2010	70.10	ND	24.88	ND	90.6	0	0.00	45.22
HIMW-007D	1/26/2010	70.40	ND	24.82	ND	117.7	0	0.00	45.58
HIMW-008S	1/12/2010	65.04	ND	20.34	ND	37.1	0	0.00	44.70
HIMW-008I	1/12/2010	65.14	ND	20.47	ND	75.1	0	0.00	44.67
HIMW-008D	NM	64.93	ND	NM	ND	114.8	0	0.00	NM
HIMW-009S	NM	70.03	ND	NM	ND	39.6	0	0.00	NM
HIMW-009I	NM	69.93	ND	NM	ND	80.5	0	0.00	NM
HIMW-009D	NM	69.96	ND	NM	ND	NM	0	0.00	NM
HIMW-010S	NM	71.60	ND	NM	ND	40.3	0	0.00	NM
HIMW-010I	NM	71.47	ND	NM	ND	91.8	0	0.00	NM
HIMW-010D	NM	71.44	ND	NM	ND	136.0	0	0.00	NM
HIMW-011S	1/26/2010	71.62	ND	25.68	ND	41.6	0	0.00	45.94
HIMW-011I	1/26/2010	71.43	ND	25.53	ND	94.5	0	0.00	45.90
HIMW-011D	NM	71.39	ND	NM	ND	123.6	0	0.00	NM
HIMW-012S	1/7/2010	61.58	ND	18.00	ND	33.5	0	0.00	43.58
HIMW-012I	1/7/2010	61.59	ND	17.87	ND	75.0	0	0.00	43.72
HIMW-012D	1/6/2010	61.82	ND	19.70	ND	128.5	0	0.00	42.12
HIMW-013S	NM	72.83	ND	NM	ND	49.2	0	0.00	NM
HIMW-013I	1/6/2010	72.60	ND	30.98	ND	82.6	0	0.00	41.62
HIMW-013D	1/6/2010	72.53	ND	30.97	ND	122.5	0	0.00	41.56
HIMW-014I	1/5/2010	71.71	ND	30.14	ND	96.9	0	0.00	41.57
HIMW-014D	NM	71.59	ND	NM	ND	152.0	0	0.00	NM
HIMW-015I	1/5/2010	64.18	ND	25.34	ND	93.1	0	0.00	38.84
HIMW-015D	1/5/2010	63.96	ND	26.69	ND	155.0	0	0.00	37.27
HIMW-016S	1/24/2010	67.45	ND	22.18	29.11	34.4	0	5.30	45.27
HIMW-016I	1/24/2010	67.50	ND	22.29	76.96	82.7	0	5.70	45.21
HIMW-017S	1/24/2010	65.96	ND	20.99	33.55	36.7	0	3.15	44.97
HIMW-018S	1/26/2010	69.76	ND	24.03	41.42	42.1	0	0.70	45.73
HIMW-018I	1/26/2010	69.70	ND	25.96	ND	71.2	0	0.00	43.74
HIMW-019S	1/26/2010	70.95	ND	24.82	38.58	39.4	0	0.80	46.13
HIMW-019I	1/26/2010	71.27	ND	25.08	ND	68.9	0	0.00	46.19
HIMW-020S	1/13/2010	70.43	ND	27.21	ND	35.0	0	0.00	43.22
HIMW-020I	1/8/2010	70.30	ND	26.02	ND	73.0	0	0.00	44.28

Table 2
Groundwater and NAPL Measurements
First Quarter 2010
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 (2)	Corrected Potentiometric Head (1)
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-21	1/24/2010	NM	ND	20.58	NM	NM	0	1.20	NM
PZ-02	NM	72.96	ND	NM	ND	35.3	0	0.00	NM
PZ-03	NM	64.58	ND	NM	ND	29.5	0	0.00	NM
PZ-08	1/26/2010	70.51	ND	24.71	34.30	35.5	0	1.20	45.80
IPR-01	1/26/2010	70.30	ND	24.25	ND	41.9	0	0.00	46.05
IPR-02	1/26/2010	68.84	ND	22.86	70.15	70.3	0	0.10	45.98
IPR-03	1/26/2010	69.16	ND	23.19	ND	44.7	0	0.00	45.97
IPR-04	1/26/2010	69.23	ND	23.36	ND	84.4	0	0.00	45.87
IPR-05	1/26/2010	70.39	ND	24.55	50.72	52.1	0	1.40	45.84
IPR-06	1/26/2010	70.79	ND	25.01	54.25	55.4	0	1.15	45.78
IPR-07	1/26/2010	69.73	ND	24.87	ND	38.0	0	0.00	44.86
IPR-08	1/26/2010	70.51	ND	24.88	ND	40.3	0	0.00	45.63
IPR-09	1/26/2010	70.00	ND	24.37	ND	45.0	0	0.00	45.63
IPR-10	1/26/2010	70.80	ND	25.09	ND	44.8	0	0.00	45.71
IPR-11	1/26/2010	68.29	ND	22.78	ND	44.6	0	0.00	45.51
IPR-12A	1/26/2010	70.14	ND	24.50	ND	38.1	0	0.00	45.64
IPR-12B	1/26/2010	69.56	ND	23.99	ND	45.2	0	0.00	45.57
IPR-13	1/26/2010	70.77	ND	25.08	ND	44.4	0	0.00	45.69
IPR-14	1/24/2010	66.93	ND	21.53	ND	44.4	0	0.00	45.40
IPR-15	1/24/2010	67.93	ND	22.52	44.39	44.4	0	0.01	45.41
IPR-16	1/24/2010	69.49	ND	24.02	48.10	49.1	0	0.95	45.47
IPR-17	1/24/2010	70.60	ND	25.10	54.10	54.1	0	0.01	45.50
IPR-18	1/24/2010	66.87	ND	21.59	ND	50.0	0	0.00	45.28
IPR-19S	NM	67.68	ND	NM	ND	45.1	0	0.00	NM
IPR-19D	1/24/2010	67.96	ND	22.70	ND	89.9	0	0.00	45.26
IPR-20	1/24/2010	66.70	ND	21.52	44.80	45.4	0	0.60	45.18
IPR-21	1/24/2010	67.67	ND	22.47	44.16	45.0	0	0.80	45.20
IPR-22	1/24/2010	66.33	ND	21.31	44.15	45.4	0	1.25	45.02
IPR-23	1/24/2010	66.67	ND	20.58	ND	45.4	0	0.00	46.09
IPR-24	1/24/2010	65.88	ND	20.91	43.75	44.4	0	0.60	44.97
IPR-25	1/26/2010	70.56	ND	24.62	43.70	44.5	0	0.80	45.94
IPR-26	1/26/2010	NM	ND	24.22	NM	NM	0	0.01	NM
IPR-27	1/26/2010	NM	ND	24.97	NM	NM	0	0.00	NM
IPR-28	1/26/2010	NM	ND	22.47	NM	NM	0	0.00	NM
IPR-29	1/26/2010	NM	ND	20.85	NM	NM	0	2.15	NM
IPR-30	1/26/2010	NM	ND	21.88	NM	NM	0	0.00	NM
IPR-31	NM	NM	ND	NM	NM	NM	0	0.00	NM
OSMW-01	1/26/2010	71.12	ND	25.03	ND	42.2	0	0.00	46.09
OSMW-02	1/26/2010	71.59	ND	25.79	ND	45.2	0	0.00	45.80
OSMW-03	1/26/2010	71.39	ND	25.68	ND	44.7	0	0.00	45.71

Notes:

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

(2) DNAPL thicknesses measured on 1/26/2010

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
First Quarter of 2010
Hempstead Intersection Street Former MGP Site

Well ID	March 20, 2010			March 7, 2010			February 20, 2010			February 8, 2010			January 26, 2010			January 10, 2010		
	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)	Thickness of LNAPL	Thickness of DNAPL	Volume Removed (1)
	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]	[ft]	[ft]	[gal]
HIMW-01S	NI	NI	0.00	NI	NI	0.00	0	0.40	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
HIMW-01I	0	0.40	0.07	NI	NI	0.00	0	0.30	0.00	0	0.35	0.06	0	0.40	0.07	0	0.63	0.10
HIMW-06S	0	0.90	0.15	0	6.20	1.01	0	1.10	0.00	0	5.20	0.85	0	4.55	0.74	0	4.05	0.66
HIMW-06I	NI	NI	0.00	NI	NI	0.00	0	0.35	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
HIMW-07S	0	0.60	0.10	0	2.05	0.33	0	1.55	0.00	0	1.05	0.17	0	1.20	0.20	0	0.70	0.11
HIMW-07I	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-07D	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11S	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-11I	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-16S	0	6.00	0.98	0	6.19	1.01	0	5.10	0.83	0	6.00	0.98	0	5.30	0.87	0	6.10	1.00
HIMW-16I	0	8.00	1.31	0	6.61	1.08	0	2.80	0.46	0	5.50	0.90	0	5.70	0.93	0	5.20	0.85
HIMW-17S	0	0.60	0.10	0	3.20	0.52	0	1.65	0.27	0	1.85	0.30	0	3.15	0.51	0	2.70	0.44
HIMW-18S	NI	NI	0.00	NI	NI	0.00	0	0.45	0.00	0	0.60	0.10	0	0.70	0.11	NI	NI	0.00
HIMW-18I	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-19S	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	0	trace	0.00	0	0.80	0.13	NI	NI	0.00
HIMW-19I	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
HIMW-21	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	0.35	0.51	0	1.20	1.76	NI	NI	0.00
PZ-08	0	0.40	0.07	0	1.30	0.21	0	1.30	0.00	0	1.65	0.27	0	1.20	0.20	0	1.30	0.21
IPR-02	0	0.20	0.29	NI	NI	0.00	0	0.35	0.00	NI	NI	0.00	0	0.10	0.15	0	0.40	0.59
IPR-05	NI	NI	0.00	NI	NI	0.00	0	1.75	0.00	NI	NI	0.00	0	1.40	0.06	NI	NI	0.00
IPR-06	0	0.40	0.59	0	0.90	1.32	0	0.50	0.00	0	0.55	0.81	0	1.15	1.69	0	1.90	2.79
IPR-09	NI	NI	0.00	NI	NI	0.00	0	1.10	1.62	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-12A	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-14	0	0.00	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-15	0	0.00	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-16	0	trace	0.00	NI	NI	0.00	0	0.05	0.07	0	0.40	0.54	0	0.95	1.28	NI	NI	0.00
IPR-17	0	0.40	0.54	NI	NI	0.00	0	trace	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-18	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-19D	0	trace	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-20	0	trace	0.00	0	trace	0.00	0	0.75	1.10	0	0.30	0.44	0	0.60	0.88	NI	NI	0.00
IPR-21	0	0.50	0.73	0	0.60	0.88	0	0.80	1.18	0	0.85	1.25	0	0.80	1.18	0	1.95	2.86
IPR-22	0	0.30	0.44	0	1.00	1.47	0	1.30	1.91	0	0.90	1.32	0	1.25	1.84	0	2.30	3.38
IPR-23	0	trace	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00
IPR-24	0	trace	0.00	NI	NI	0.00	0	trace	0.00	0	0.55	0.81	0	0.60	0.88	NI	NI	0.00
IPR-25	0	0.60	0.88	0	2.20	3.23	0	0.70	0.00	0	0.55	0.81	0	0.80	1.18	0	0.80	1.18
IPR-26	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	trace	0.00	NI	NI	0.00
IPR-27	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	NI	NI	0.00	0	0.00	0.00	NI	NI	0.00
IPR-29	0	0.50	0.73	0	trace	0.00	0	0.55	0.81	0	0.30	0.44	0	2.15	3.16	NI	NI	0.00
	Volume Removed		**6.97**	Volume Removed		**11.07**	Volume Removed		**8.24**	Volume Removed		**10.55**	Volume Removed		**17.80**	Volume Removed		**14.17**

Total volume recovered during the first quarter 2010: **68.80 gal**

Total volume of NAPL recovered since April 2007: **487.8 gal**

No product recovery due to excessive snow cover

Notes:

NI - well not included in the product recovery program during this round

NA - No Access

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 HIMW (unless noted) and PZ monitoring wells are 2-inch diameter: Vol = 0.163 gal / lft of well screen.

All IPR monitoring wells (unless noted) and HIMW-21are 6-inch diameter: Vol = 1.469 gal / lft of well screen.

Monitoring wells IPR-16 and IPR-17 are 5.75-inch diameter: Vol = 1.349 gal / lft of well screen.

Monitoring well IPR-05 and IPR-12A are 1-inch diameter: Vol = 0.041 gal / lft of well screen.

Table 4

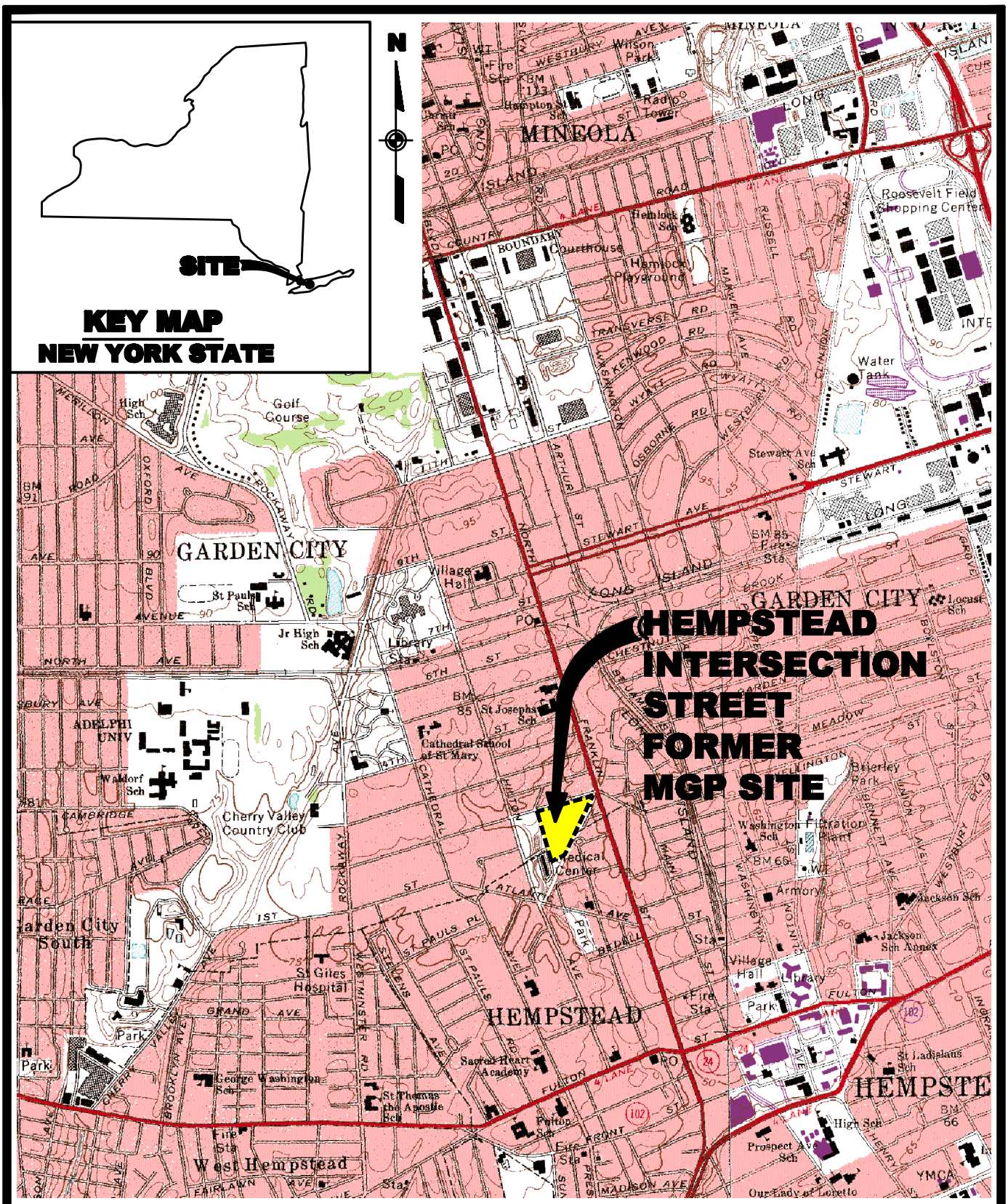
Hempstead Intersection Street Former MGP Site
Dissolved-Phase Concentrations of
Total BTEX Compounds and Total PAH Compounds
for the First Quarter 2010

Well ID	First Quarter 2010 (January 5-17, 2010) Concentrations	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D		
HIMW-003I		
HIMW-003S		
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	108	1,722
HIMW-005I	166	3,047
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	14
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	40	124
HIMW-012S	ND	ND
HIMW-013D	5	18
HIMW-013I	206	85
HIMW-013S		
HIMW-014D		
HIMW-014I	41	26
HIMW-015D	ND	ND
HIMW-015I	9	11
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I	176	221
HIMW-020S	ND	ND
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

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

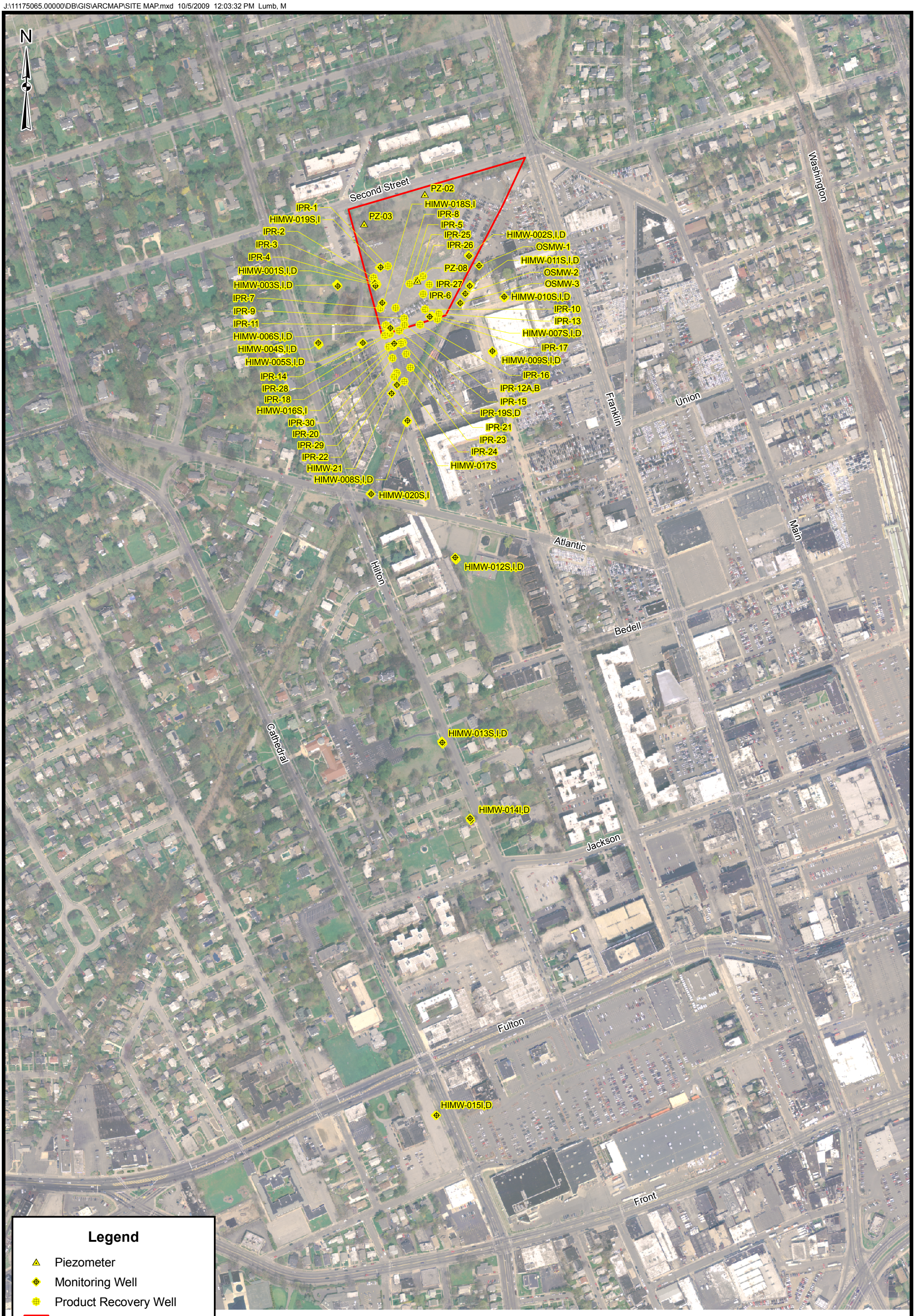
URS Corporation

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 10/5/2009 12:03:32 PM Lumb, M



URS

HEMPSTEAD/GARDEN CITY, NY
SITE MAP

FIGURE 2

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\FIRST QUARTER 2010\FIGURE 3.dwg 3/30/10 - 5 RAL

DGP-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-15I,D

DEPTH	TOT. BTEX	TOT. PAHs
80-90	5-111 (9)	ND-273 (11)
141.5-151.5	ND-94 (ND)	ND-1 (ND)

HISB-102(2) (1/8/09)

DEPTH	TOT. BTEX	TOT. PAHs
30-34	423	859
40-44	464	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	38	30
90-94	124	98

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-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 (2/09)

DEPTH	TOT. BTEX	TOT. PAHs
25-35	ND (ND)	ND (ND)
63-73	176-224 (176)	96-221 (221)

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

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

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
80.5-90.5	ND-13	ND
133-143	ND-8.2	ND-30

HIMW-12S,I,D

DEPTH	TOT. BTEX	TOT. PAHs
22-32	ND-11 (ND)	ND-4 (ND)
63-73	29.2-256 (40)	65-527 (124)
117-127	ND-6 (ND)	ND-2 (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-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
70-80	ND-206 (206)	58-156 (85)
110-120	2.8-30 (5)	ND-21 (18)

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

HISB-109 (12/10/08)

DEPTH	TOT. BTEX	TOT. PAHs
30-34	ND	ND
40-44	ND	ND
50-54	8	ND
60-64	19	ND
70-74	28	ND
80-84	31	2
90-94	ND	ND

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	158-439 (166)	1,454-5,337 (3,047)
130-140	ND-185.1 (108)	ND-1,722 (1,722)

HIMW-14I,D

DEPTH	TOT. BTEX	TOT. PAHs
85-95	41-273 (41)	26-288 (26)
140-150	ND-15	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

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)

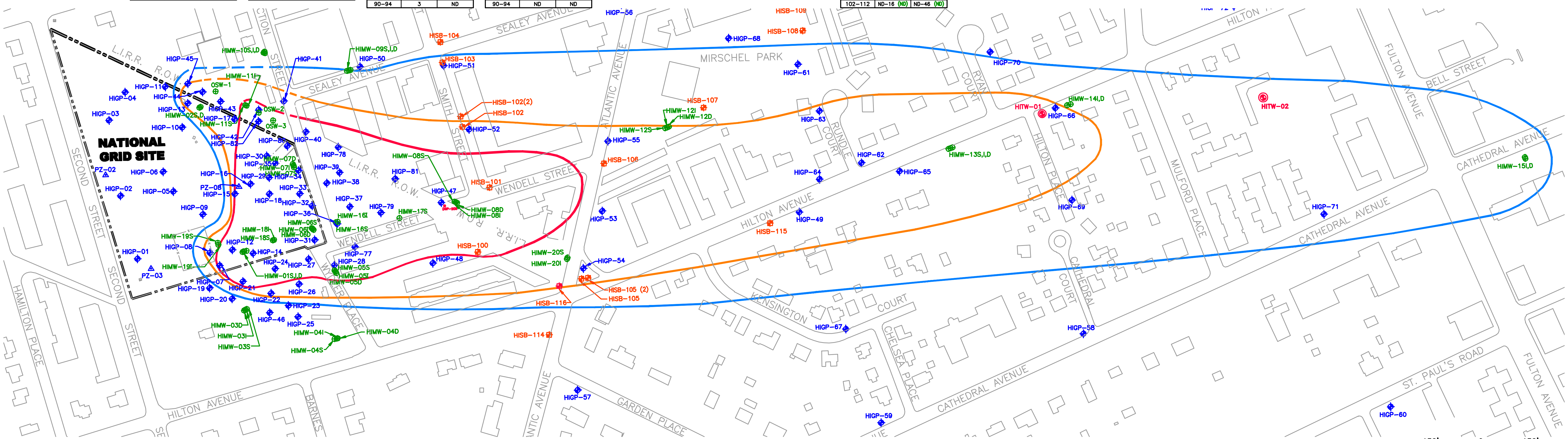
DEPTH	TOT. BTEX	TOT. PAHs
33-37	ND	1
60-64	373	338
90-94	3	ND

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 (14)
63-73	ND-8.6 (ND)	ND-251 (ND)
102-112	ND-16 (ND)	ND-46 (ND)



150' 0 150'
SCALE IN FEET

LEGEND:

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

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

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 (JANUARY 2010 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.

URS Corporation

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

EXTENT OF DISSOLVED-PHASE PLUME AND GROUNDWATER ANALYTICAL RESULTS

FIGURE 3

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\JAN 2010\FIGURE 4.dwg 4/6/10 - 3 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-19S, 46.13
HIMW-01S, 45.99
IPR-8, 45.63
IPR-9, 45.63
HIMW-03S, NM
HIMW-18S, 45.73
IPR-7, 44.86
IPR-12A, 45.64
IPR-11, 45.51
HIMW-06S, 45.53
IPR-14, 45.40
HIMW-04S, 45.00
HIMW-05S, 45.11
HIMW-016S, 45.27
IPR-20, 45.18
IPR-1, 46.05
IPR-3, 45.97
IPR-25, 45.94
HIMW-02S, NM
OSMW-1, 46.09
P-08, 45.80
HIMW-11S, 45.94
IPR-10, 45.71
HIMW-10S, NM
OSMW-2, 45.80
OSMW-3, 45.71
IPR-13, 45.69
HIMW-07S, 45.56
IPR-12B, 45.57
IPR-15, NM
IPR-19S, NM
HIMW-09S, NM
IPR-21, 45.20
IPR-22, 45.02
IPR-23, 46.09
IPR-24, 44.97
HIMW-17S, 44.97
HIMW-8S, 44.70
HIMW-20S, 43.22
HIMW-12S, 43.58
HIMW-13S, NM
46
45
44

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

LEGEND:

- MONITORING WELL
- IPR WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- 44 POTENTIOMETRIC SURFACE CONTOUR
- FORMER MGP SITE BOUNDARY
- HIMW-8S, 44.70 LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)

300' 0 300'
SCALE IN FEET

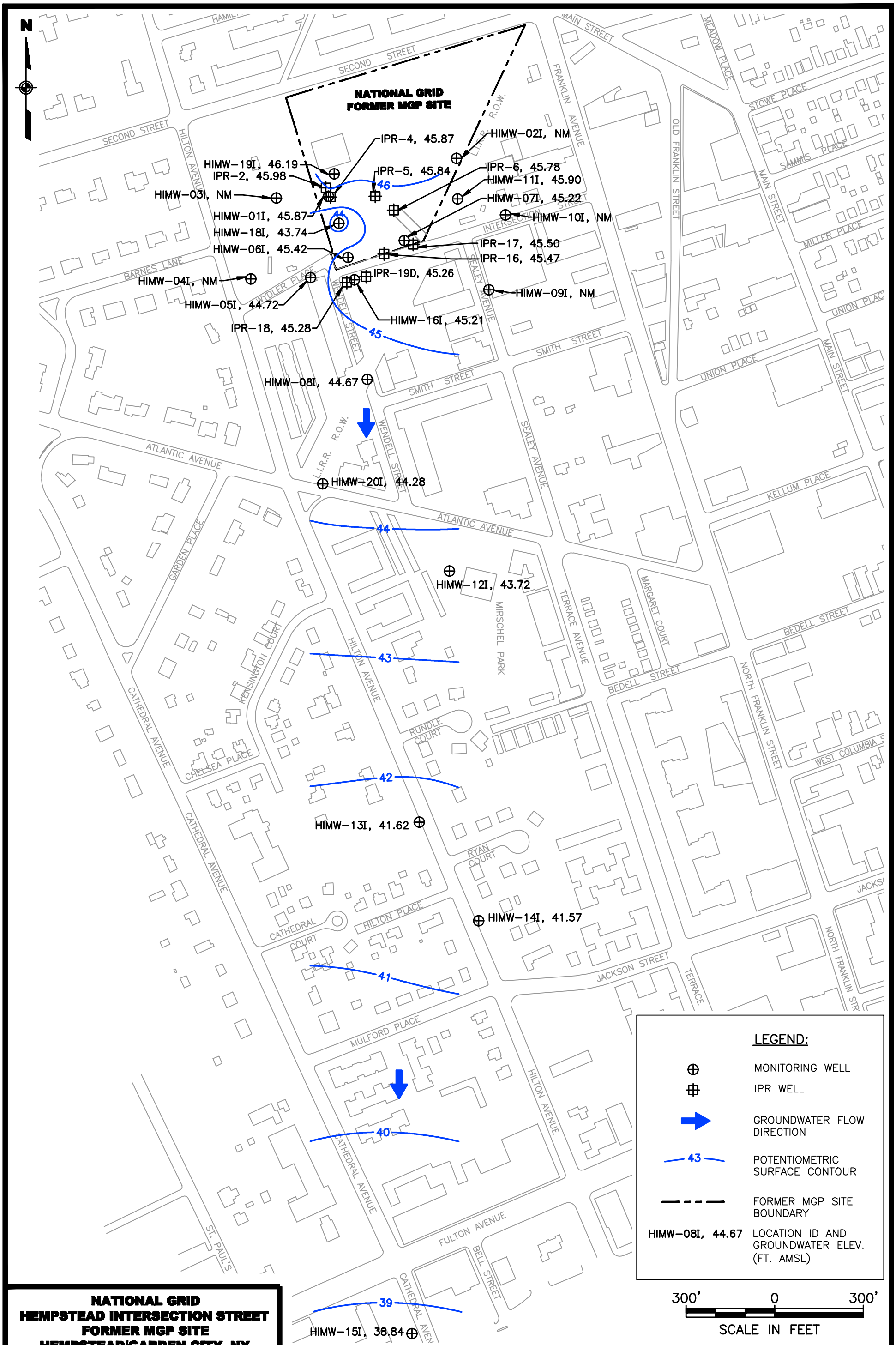
NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
JANUARY 2010

FIGURE 4

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\JAN 2010\FIGURE 5.dwg 4/6/10 - 3 RAL



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

URS Corporation

HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR INTERMEDIATE GROUNDWATER
JANUARY 2010

FIGURE 5

J:\11175065.00000\CAD\DRAFT\TASK2\HEMPSTEAD\SITE-WIDE REMEDY\GROUNDWATER TREATMENT\JAN 2010\FIGURE 6.dwg 4/6/10 - 4 RAL

N

NATIONAL GRID
FORMER MGP SITE

HIMW-02D, NM
HIMW-03D, NM
HIMW-11D, NM
HIMW-06D, NM
HIMW-10D, NM
HIMW-05D, NM
HIMW-07D, 45.58
HIMW-04D, NM
HIMW-09D, NM
HIMW-8D, NM
HIMW-12D, 42.12
HIMW-13D, 41.56
HIMW-14D, NM
HIMW-15D, 37.27

45
44
43
42
41
40
39
38

SECOND STREET
HILTON AVENUE
L.I.R.R. R.O.W.
FRANKLIN AVENUE
MAIN STREET
MEADOW PLACE
STOWE PLACE
SAMMS PLACE
OLD FRANKLIN STREET
INTERSECTION STREET
MILLER PLACE
BARNES LANE
WYDLER PLACE
WENDELL STREET
SEALEY AVENUE
SMITH STREET
UNION PLACE
ATLANTIC AVENUE
GARDEN PLACE
KENSINGTON COURT
CATHEDRAL AVENUE
CHELSEA PLACE
KELLUM PLACE
MARGARET COURT
TERRACE AVENUE
MIRSCHEL PARK
BEDELL STREET
NORTH FRANKLIN STREET
WEST COLUMBIA
RUNDLE COURT
RYAN COURT
HILTON PLACE
CATHEDRAL COURT
JACKSON STREET
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, 42.12 — LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)

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
JANUARY 2010

FIGURE 6

INSET

SEE INSET

N

HIMW-19 IPR-1 PZ-08 OSMW-1 IPR-2 IPR-26 IPR-3 IPR-5 HIMW-01 IPR-4 IPR-27 HIMW-11 IPR-25 IPR-6 OSMW-2 HIMW-18 OSMW-3 IPR-8 IPR-7 IPR-10 IPR-13 IPR-9 HIMW-07 IPR-17 IPR-11 IPR-16 HIMW-06 IPR-28 IPR-15 IPR-12 IPR-14 HIMW-05 HIMW-04 IPR-19 IPR-18 HIMW-16 IPR-30 IPR-21 IPR-20 IPR-22 IPR-23 IPR-29 HIMW-17 IPR-24 HIMW-21 HIMW-08

HIMW-19 IPR-1 IPR-10 IPR-7 IPR-24 HIMW-08

75 0 75 Feet

HIMW-20 Atlantic HIMW-12 Hilton HIMW-13 Cathedral HIMW-14 Fulton HIMW-15

LOCID	BTEX (ug\L)	PAH (ug/L)	DNAPL (ft)	LNAPL (ft)
HIMW-01I			0.40	
HIMW-01S			trace	
HIMW-03D				
HIMW-03I				
HIMW-03S				
HIMW-05D	108	1722		
HIMW-05I	166	3047		
HIMW-05S				
HIMW-06I			trace	
HIMW-06S			4.55	
HIMW-07D				
HIMW-07I				
HIMW-07S			1.20	
HIMW-08D				
HIMW-08I				
HIMW-08S		14		
HIMW-11I				
HIMW-11S				
HIMW-12D				
HIMW-12I	40	124		
HIMW-12S				
HIMW-13D	5	18		
HIMW-13I	206	85		
HIMW-13S				
HIMW-14D				
HIMW-14I	41	26		
HIMW-15D				
HIMW-15I	9	11		
HIMW-16I			5.70	
HIMW-16S			5.30	
HIMW-17S			3.15	
HIMW-18I				
HIMW-18S			0.70	
HIMW-19I				
HIMW-19S			0.80	
HIMW-20I	176	221		
HIMW-20S				
HIMW-21			1.20	
IPR-2			0.10	
IPR-5			1.40	
IPR-6			1.15	
IPR-12A				
IPR-15			trace	
IPR-16			0.95	
IPR-17			trace	
IPR-20			0.60	
IPR-21			0.80	
IPR-22			1.25	
IPR-24			0.60	
IPR-25			0.80	
IPR-26			trace	
IPR-27				
IPR-28				
IPR-29			2.15	
IPR-30				
PZ-08			1.20	

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
ug/L - Micrograms per Liter
ft - Feet of Product Thickness

400 0 400 Feet

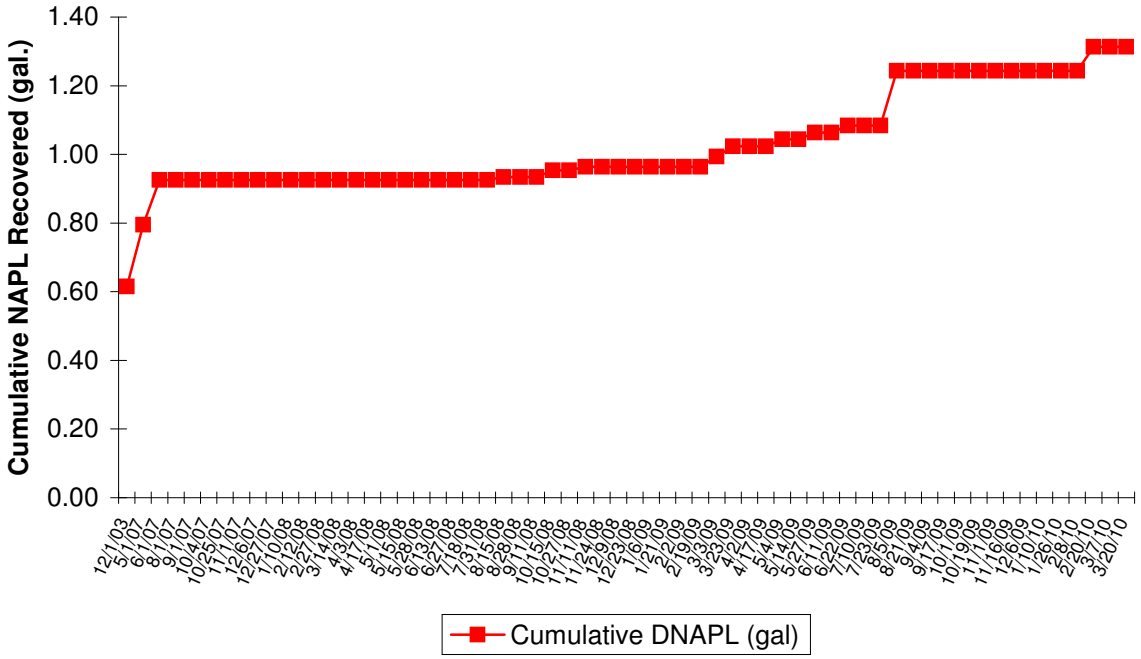
URS

HEMPSTEAD/GARDEN CITY, NY
TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS AND FREE PRODUCT THICKNESS
FIRST QUARTER 2010

FIGURE 7

J:\11175065.00000\DBG\S\ARCMAP\0110 BTEXPAH-NAPL.mxd 4/2/2010 MDL

FIGURE 8A
Well HIMW-01S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



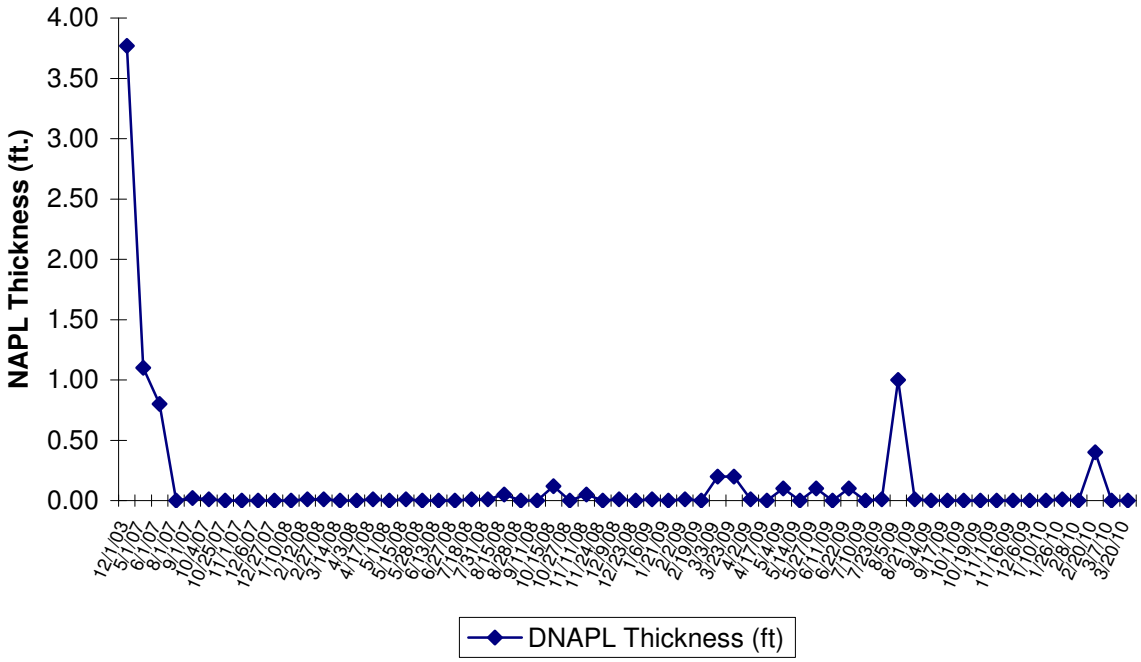
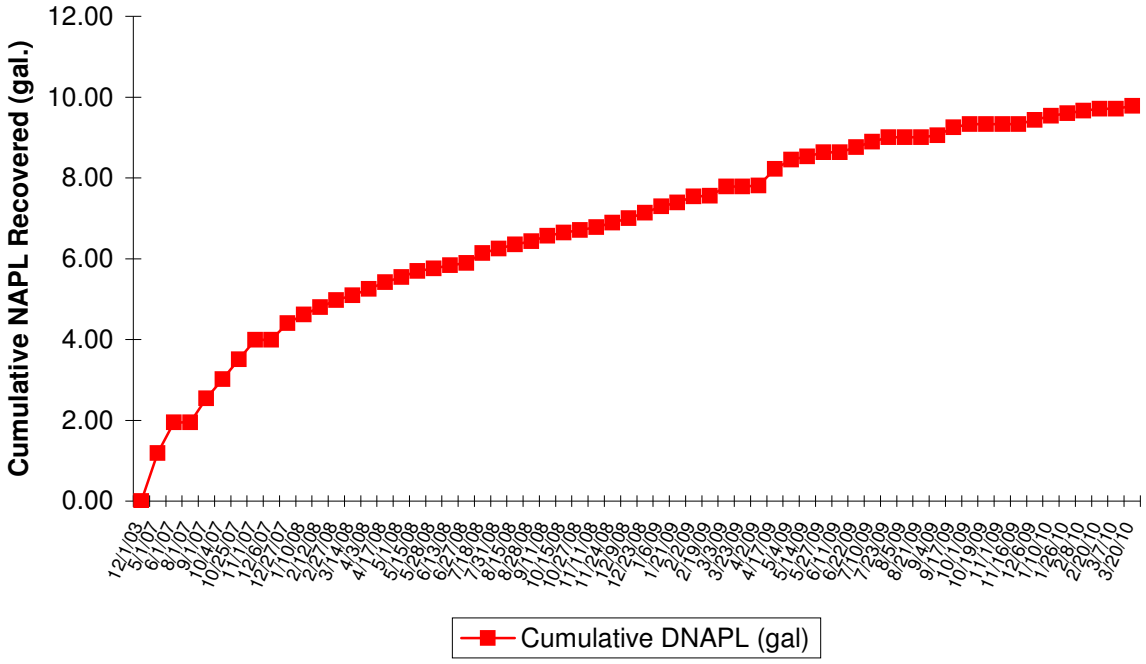


FIGURE 8B
Well HIMW-01I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



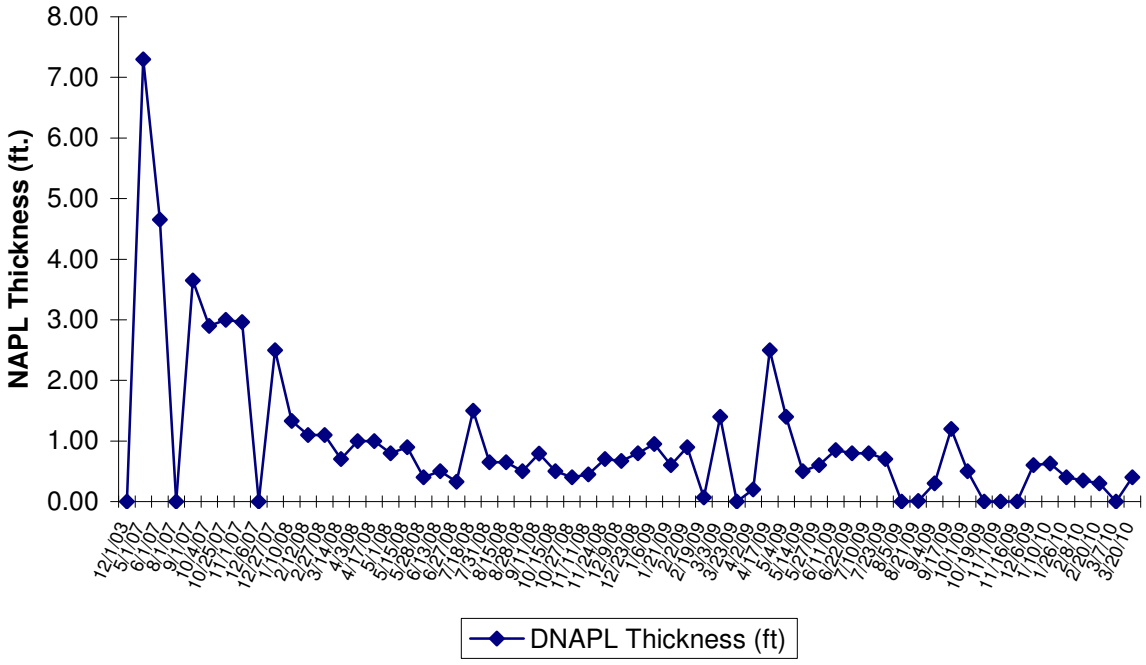
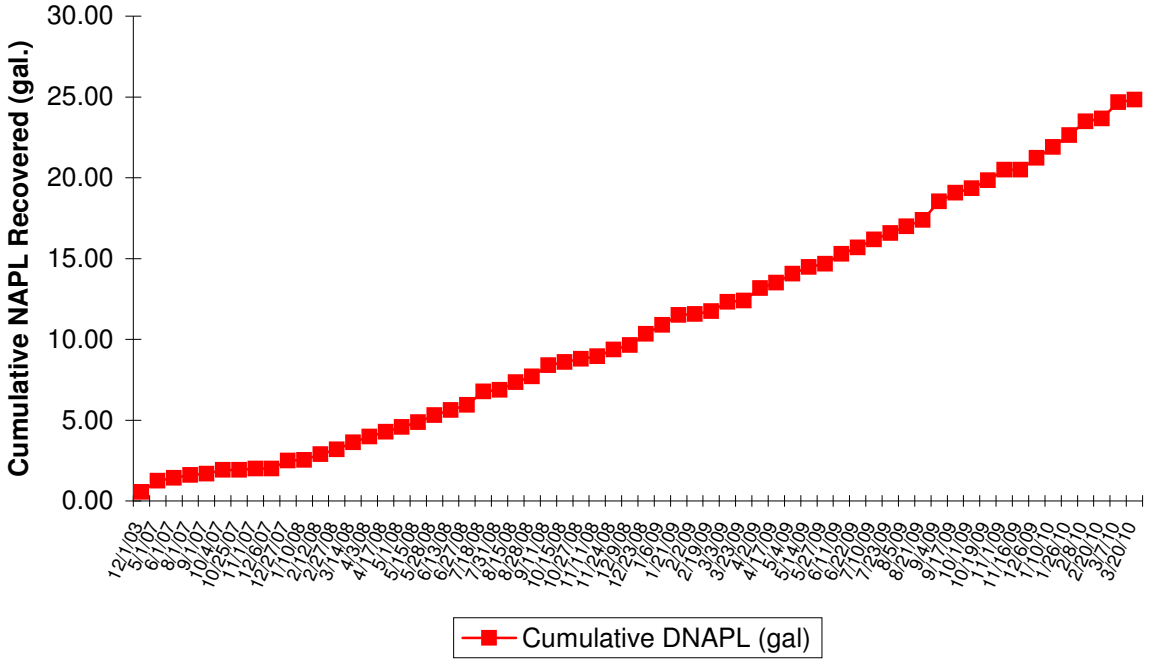


FIGURE 8C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



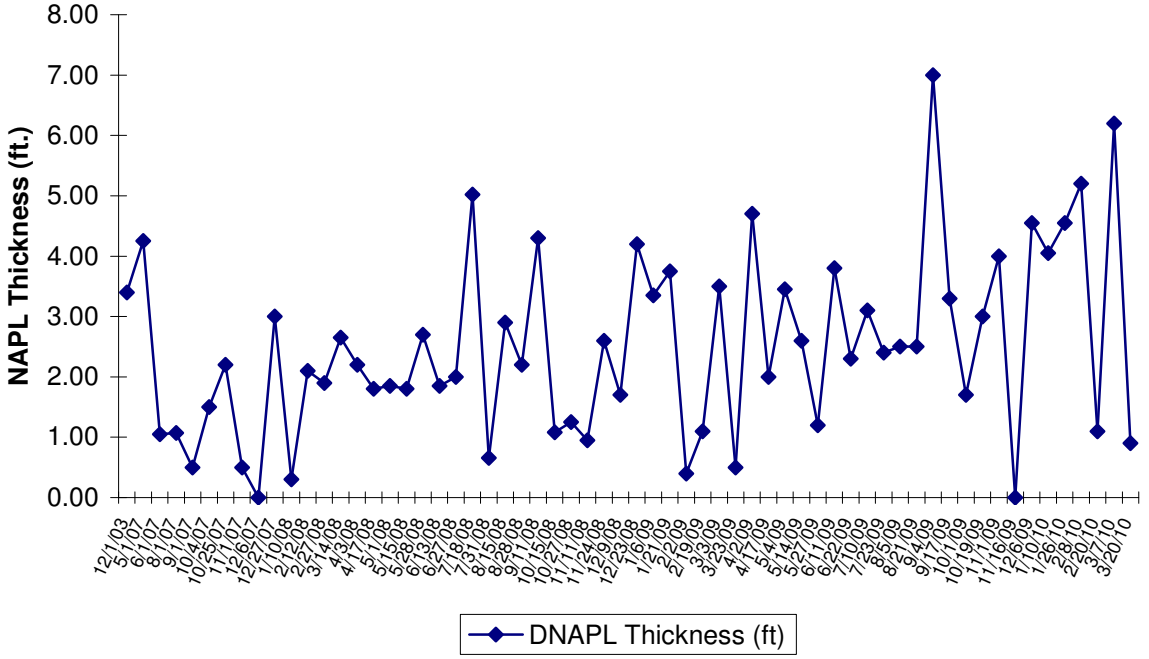
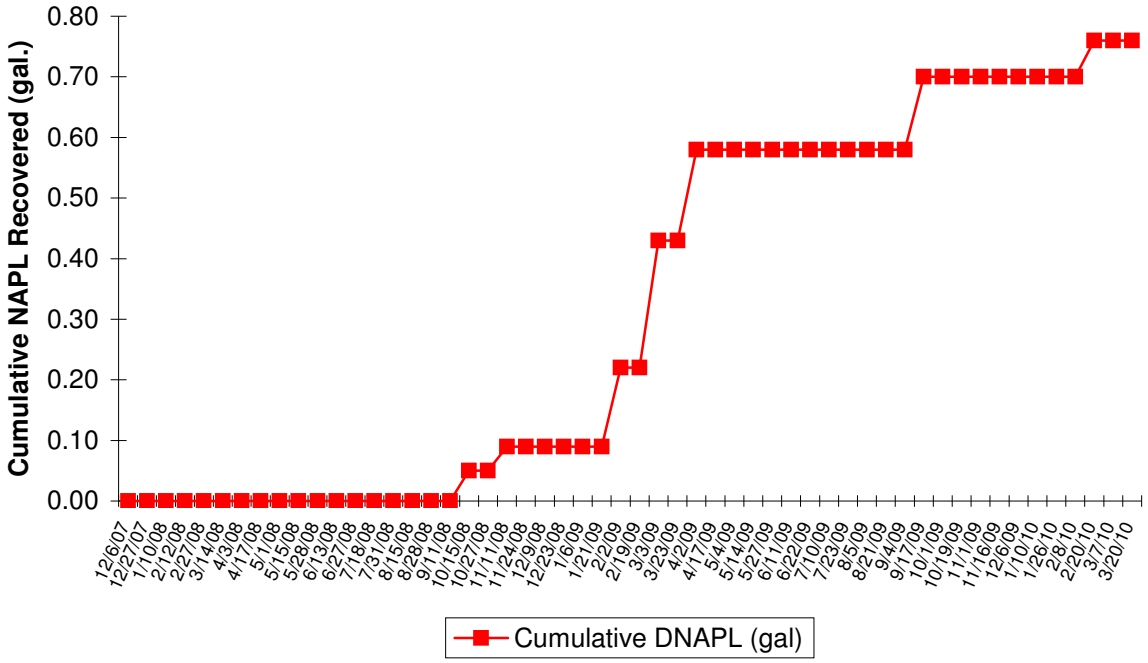


FIGURE 8D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



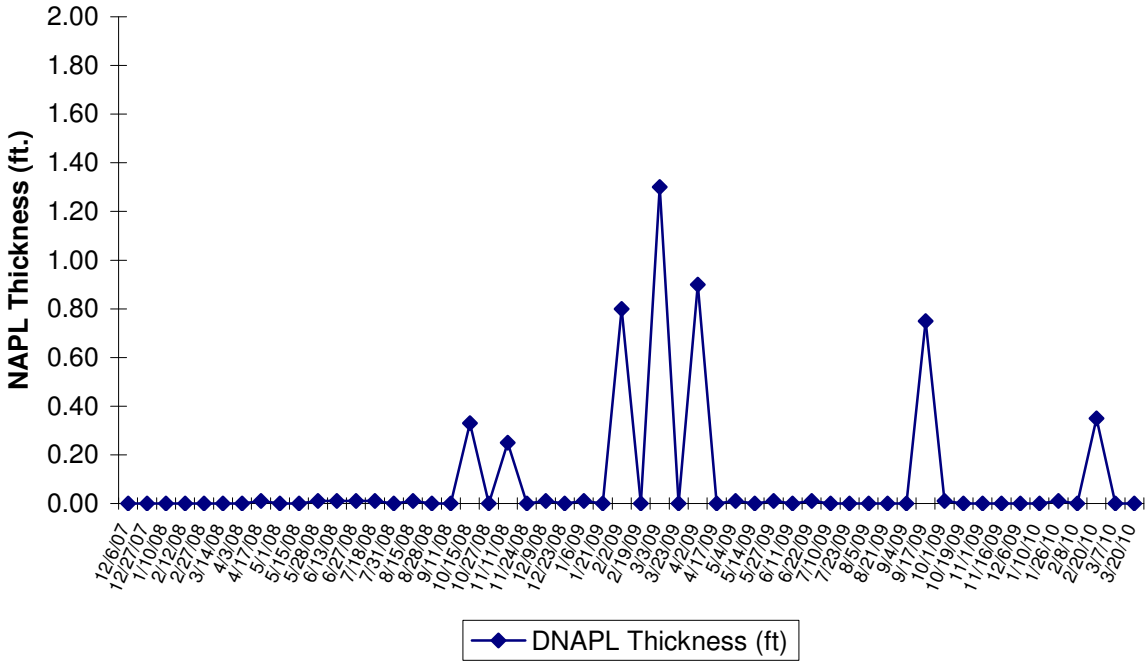
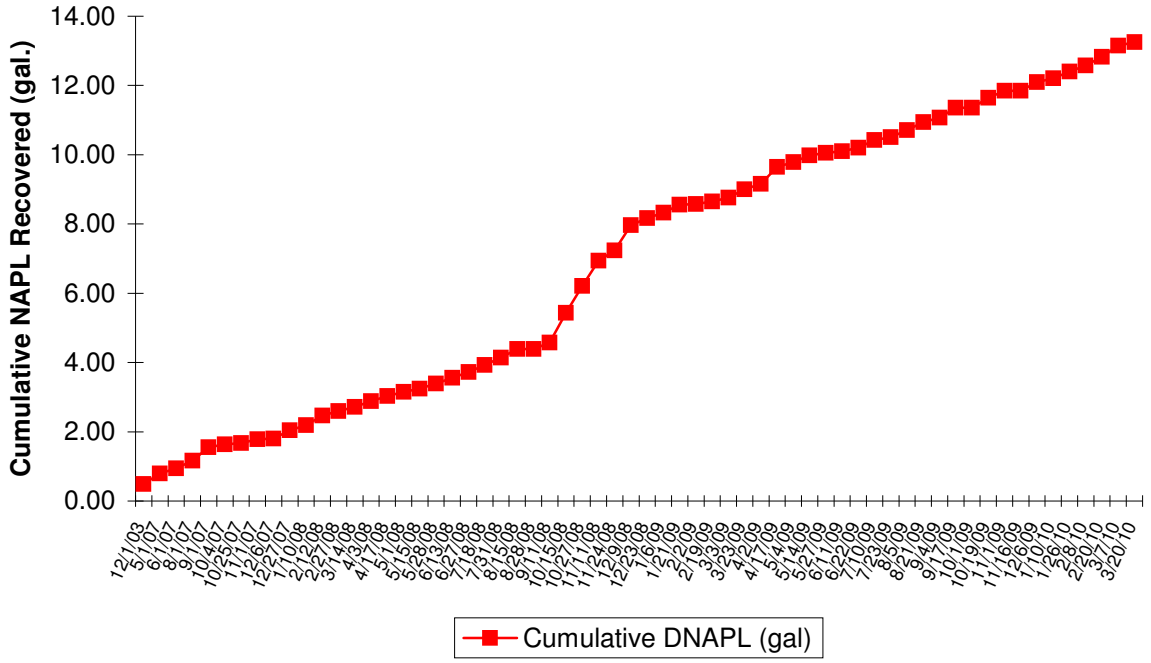


FIGURE 8E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



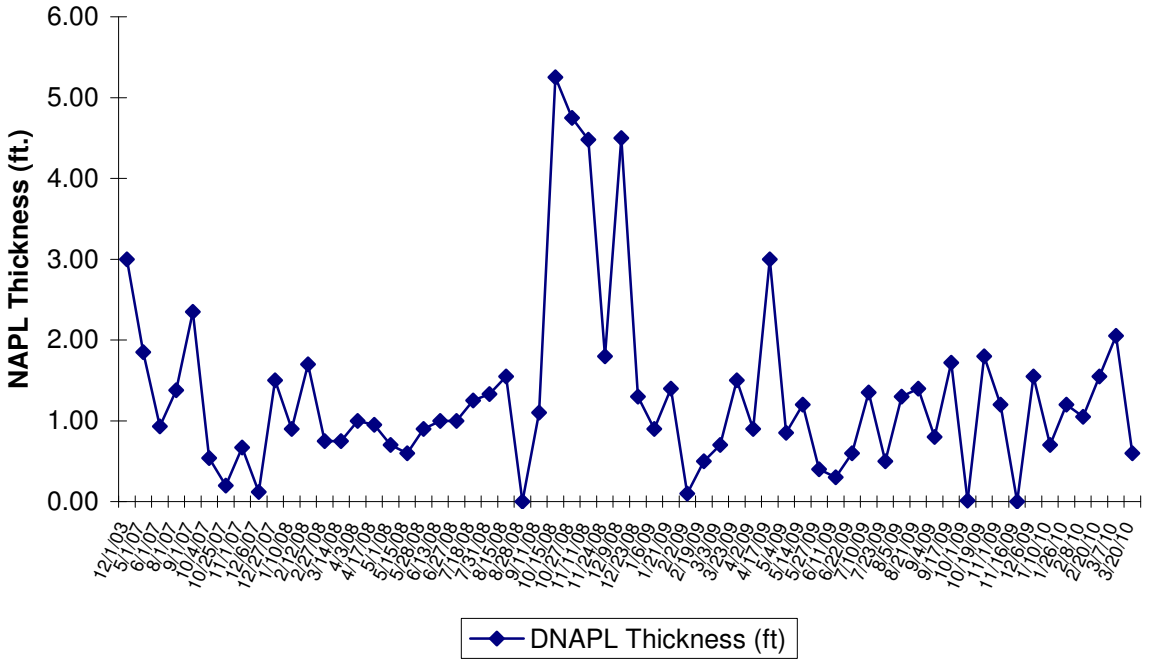
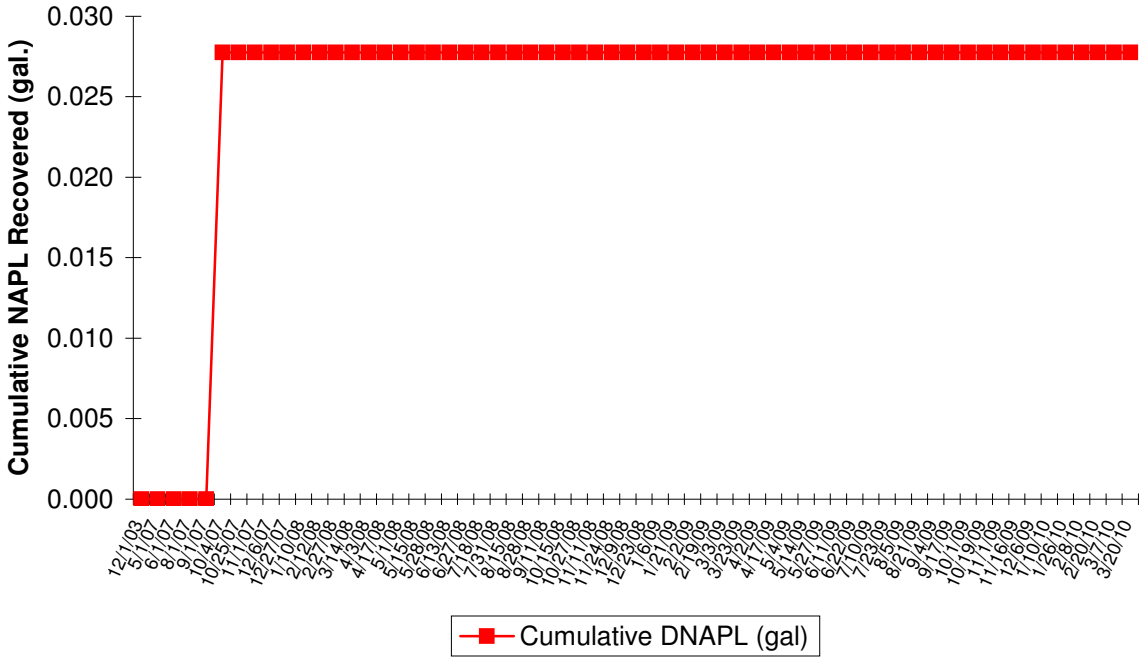


FIGURE 8F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



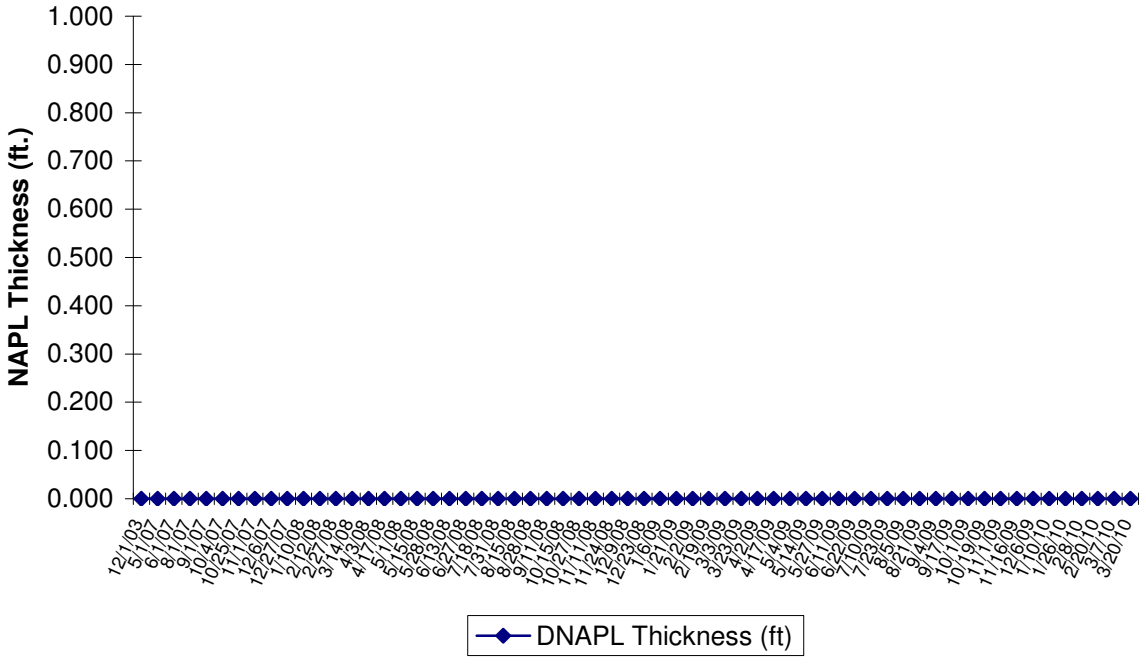
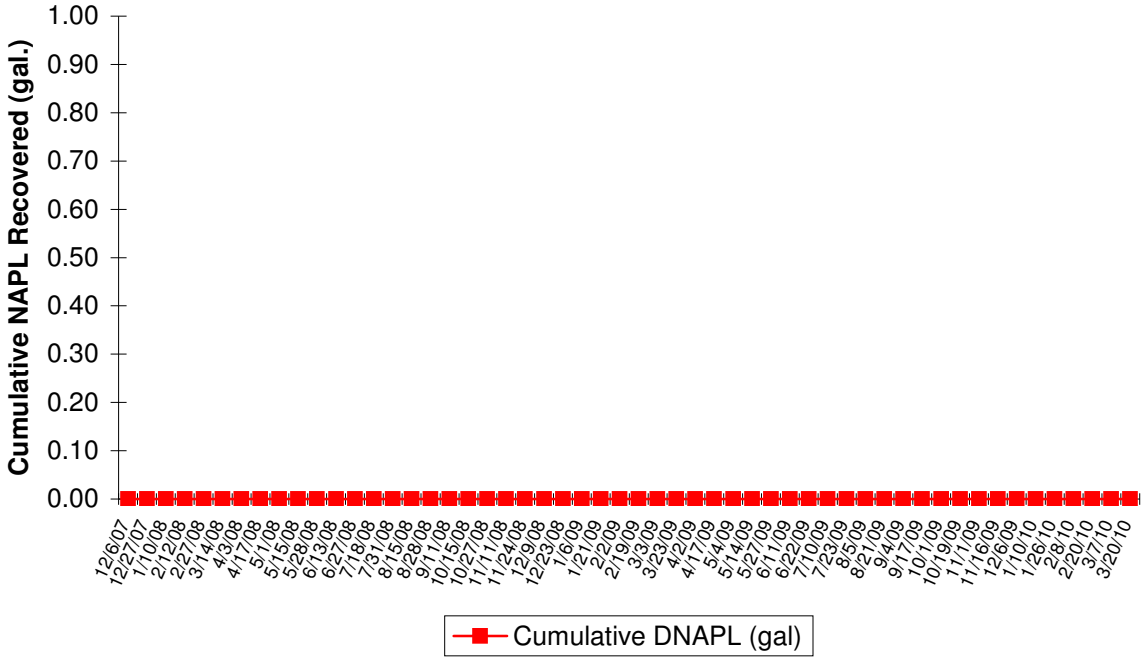


FIGURE 8G
Well HIMW-11I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



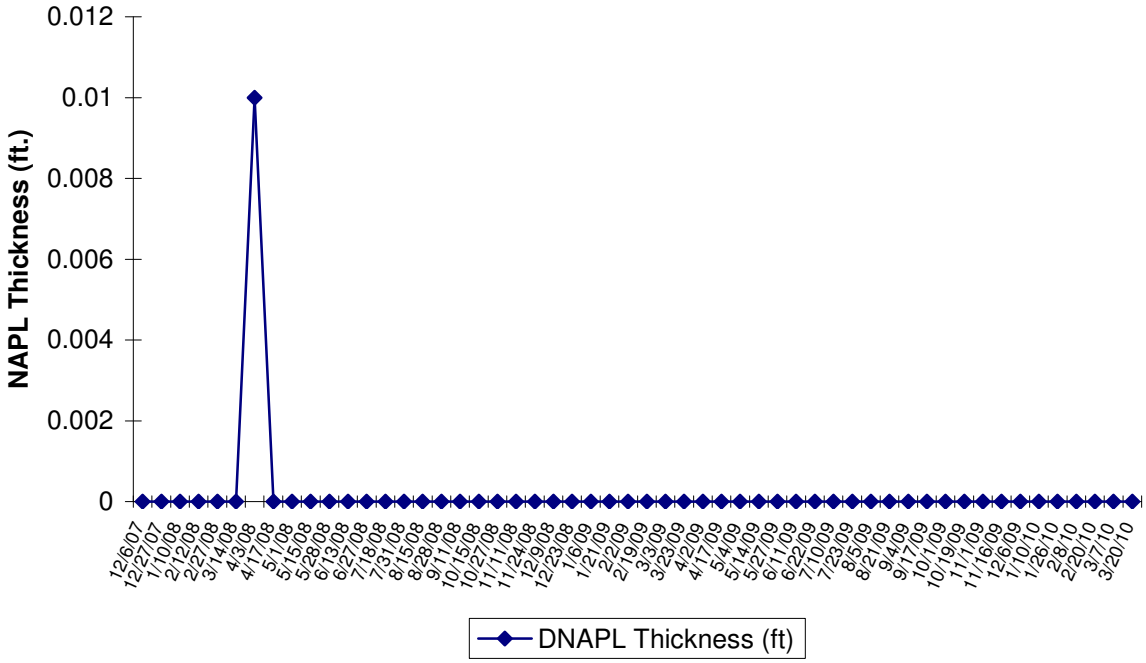
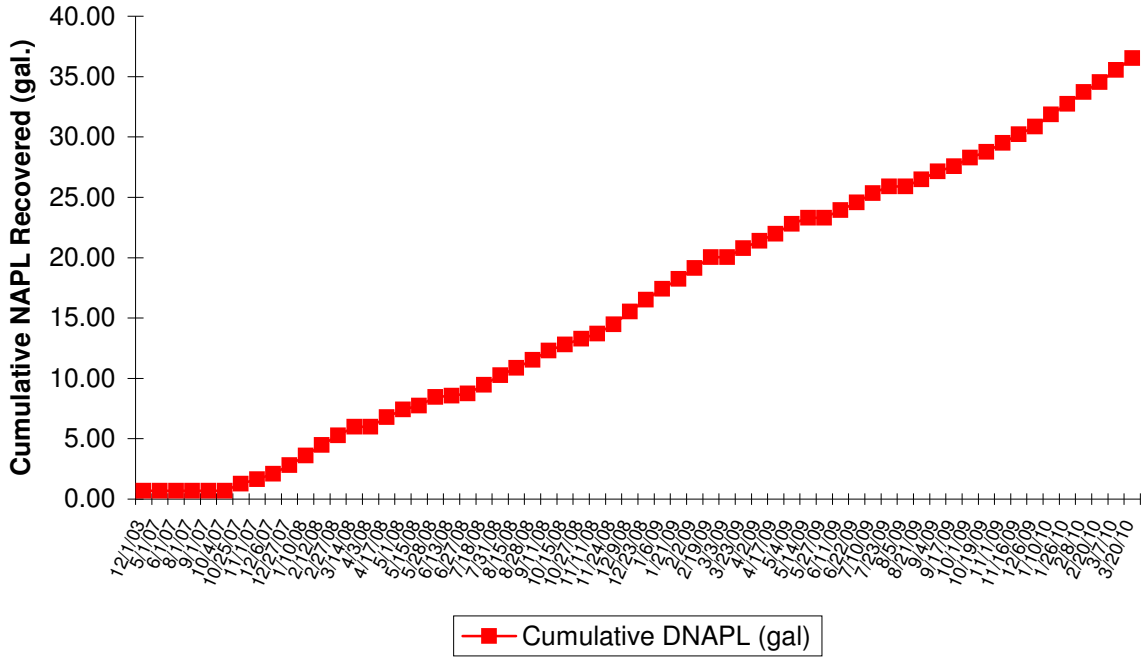


FIGURE 8H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



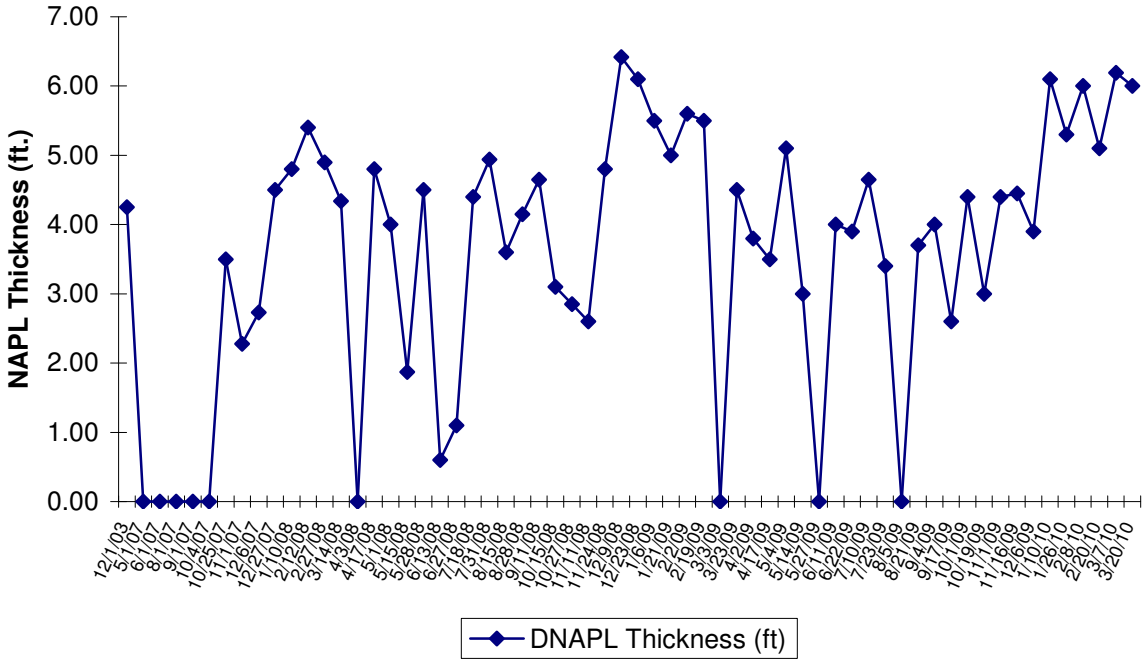
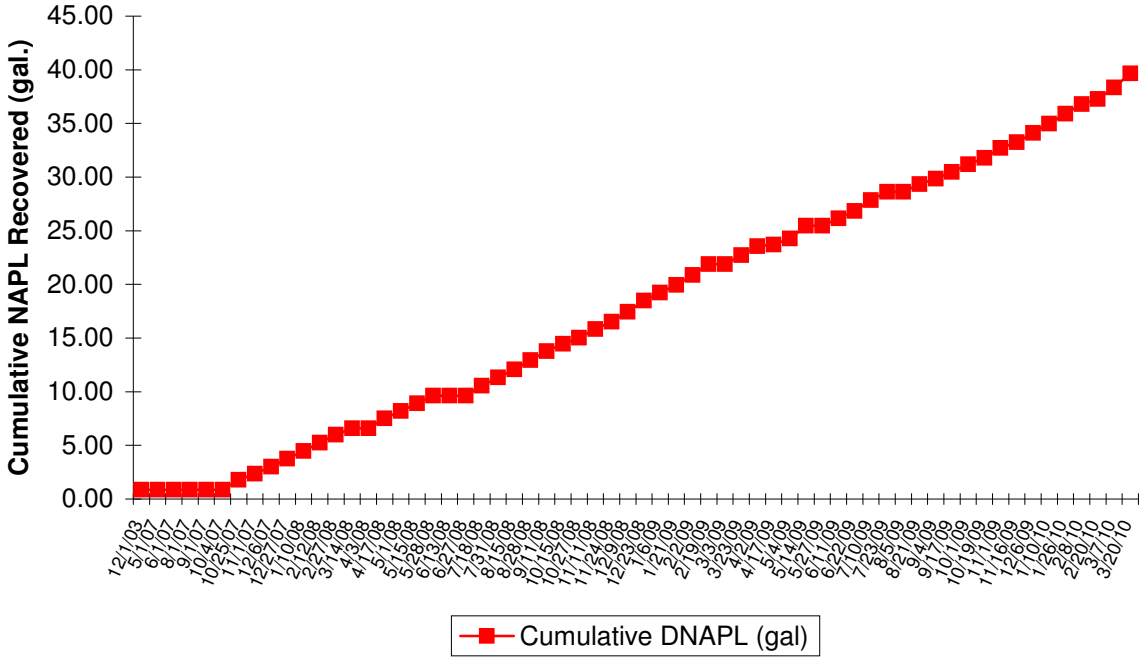


FIGURE 8I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



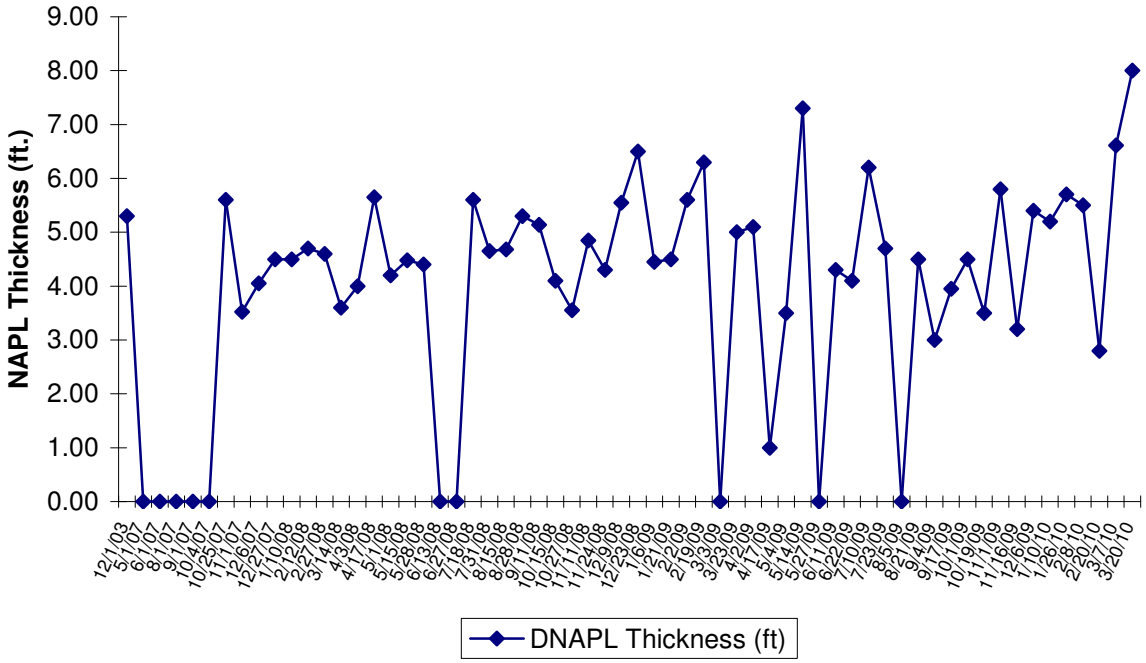
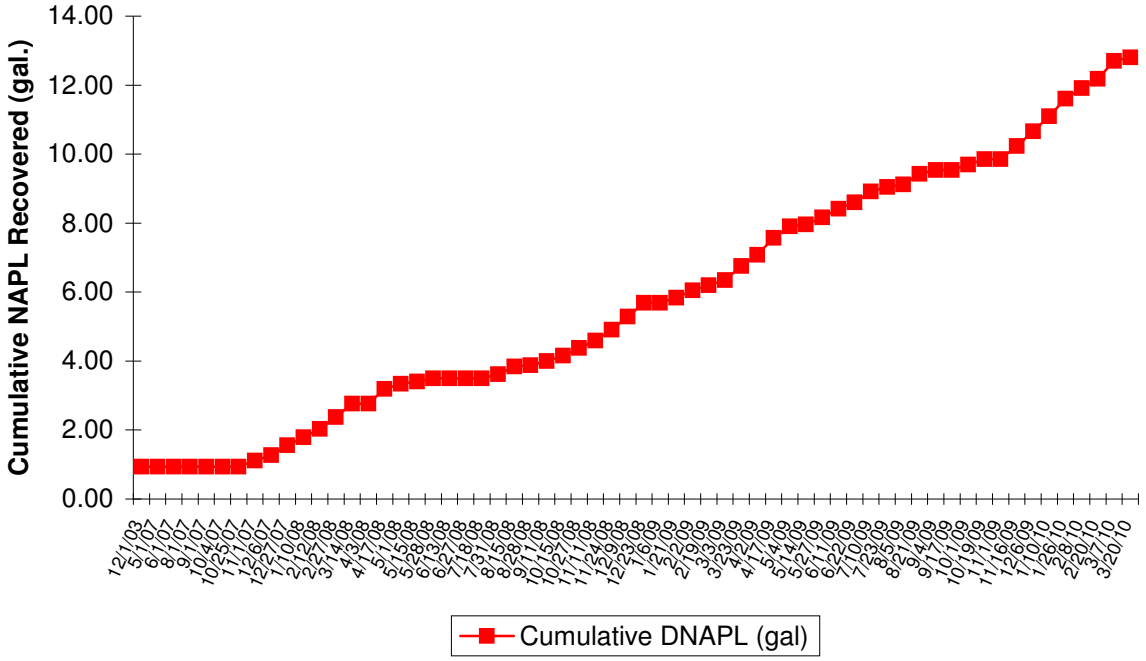


FIGURE 8J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



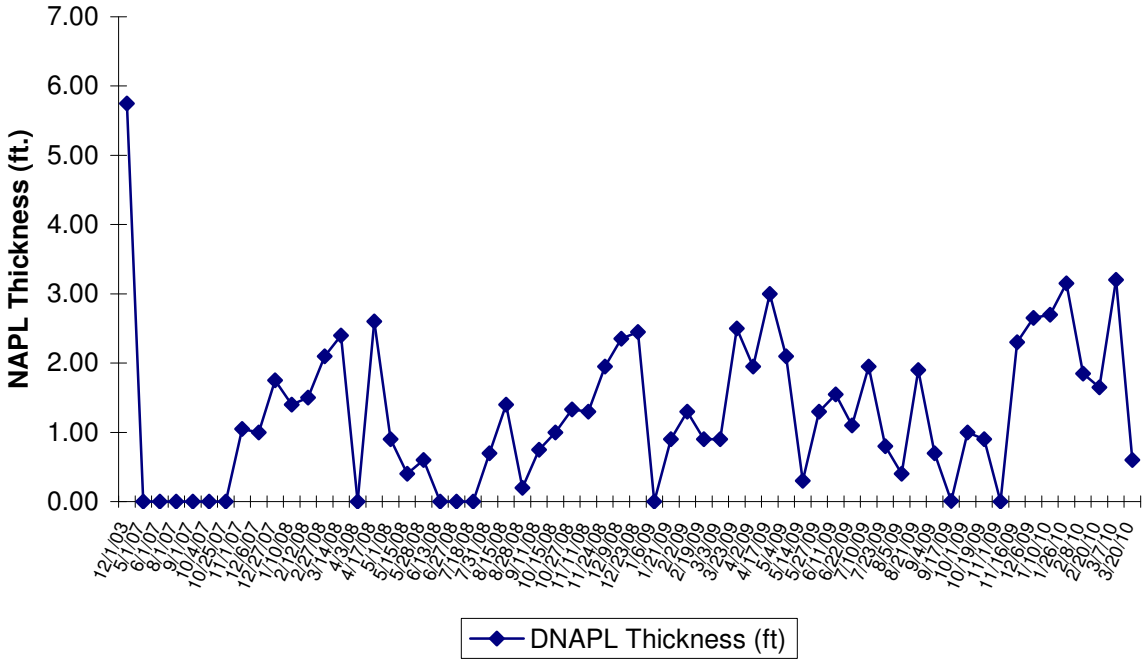
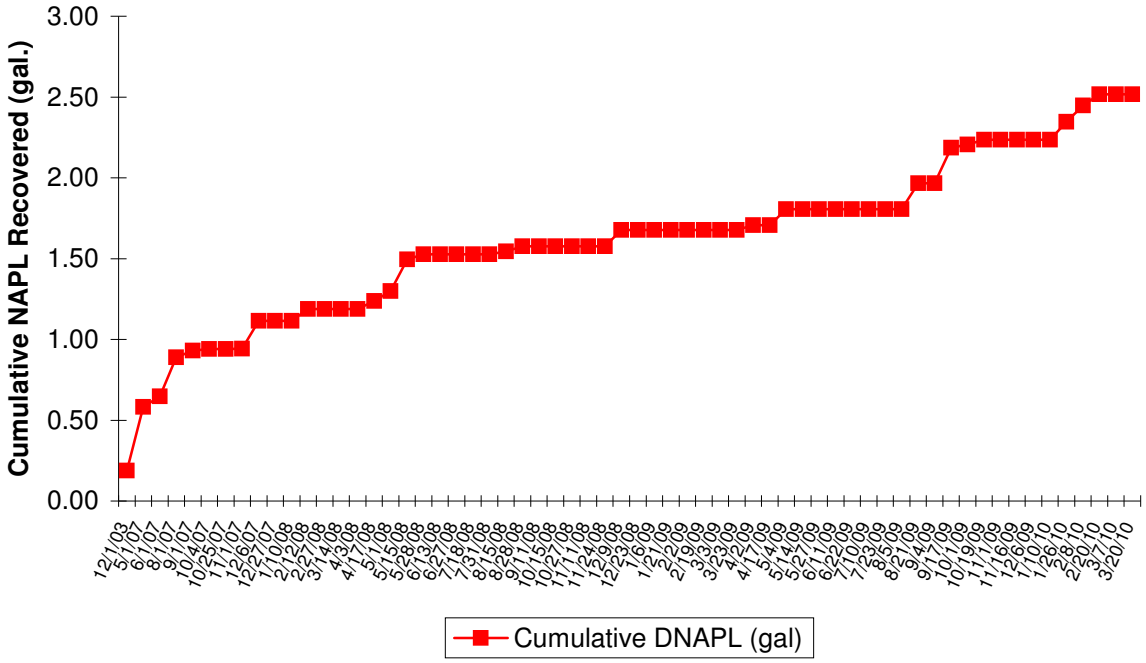


FIGURE 8K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



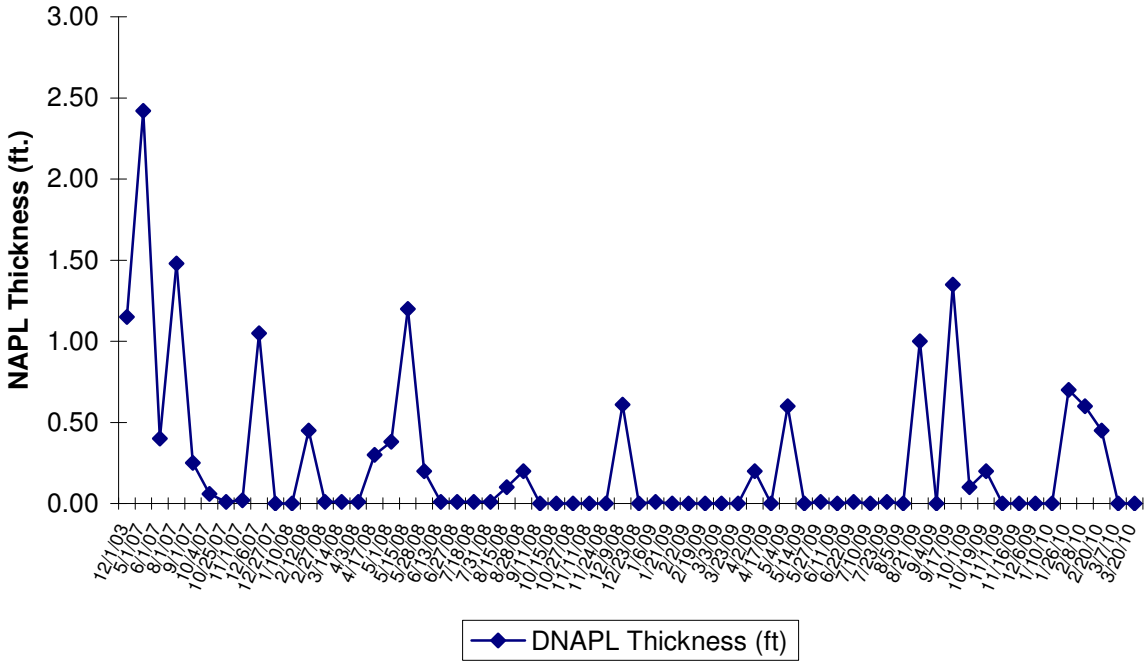
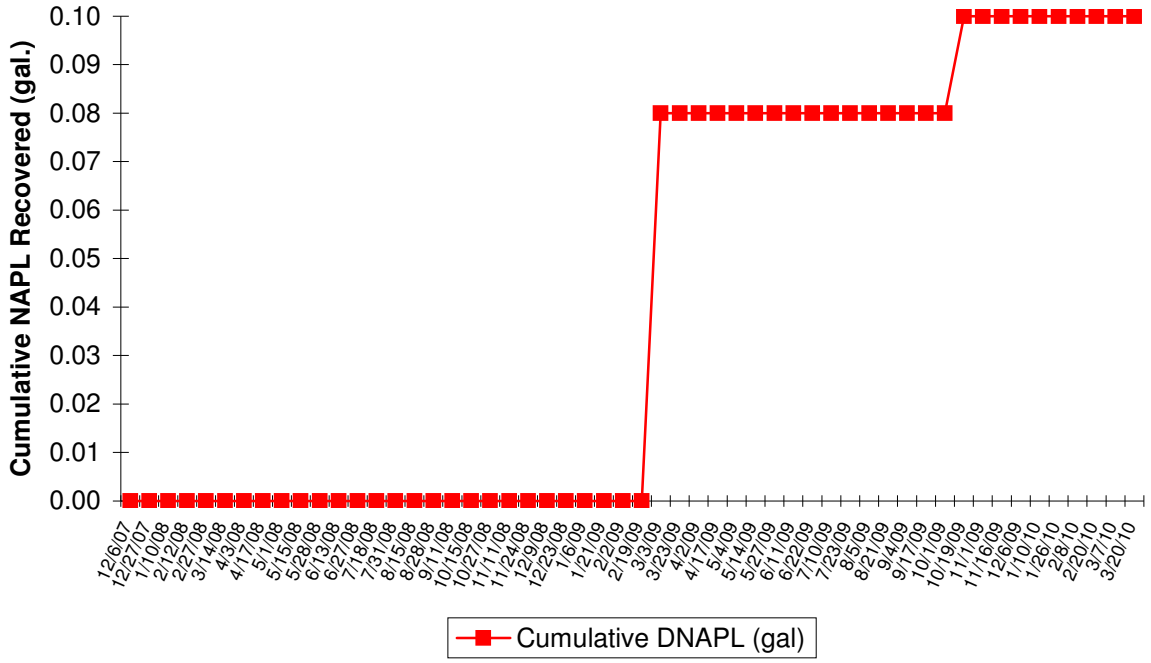


FIGURE 8L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



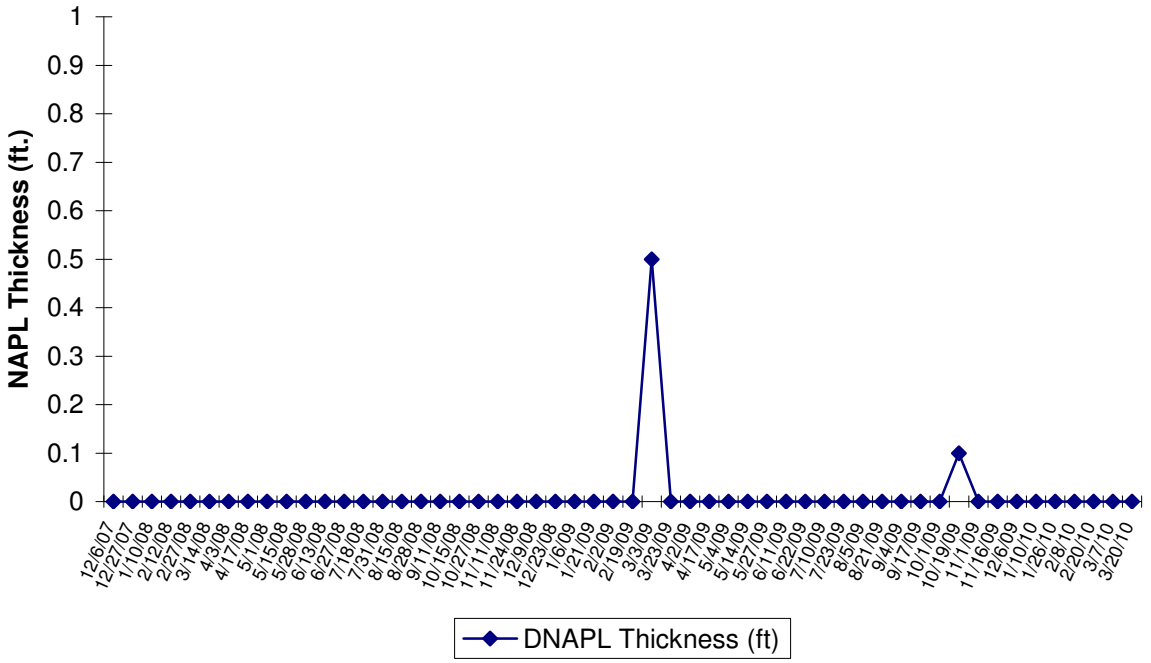
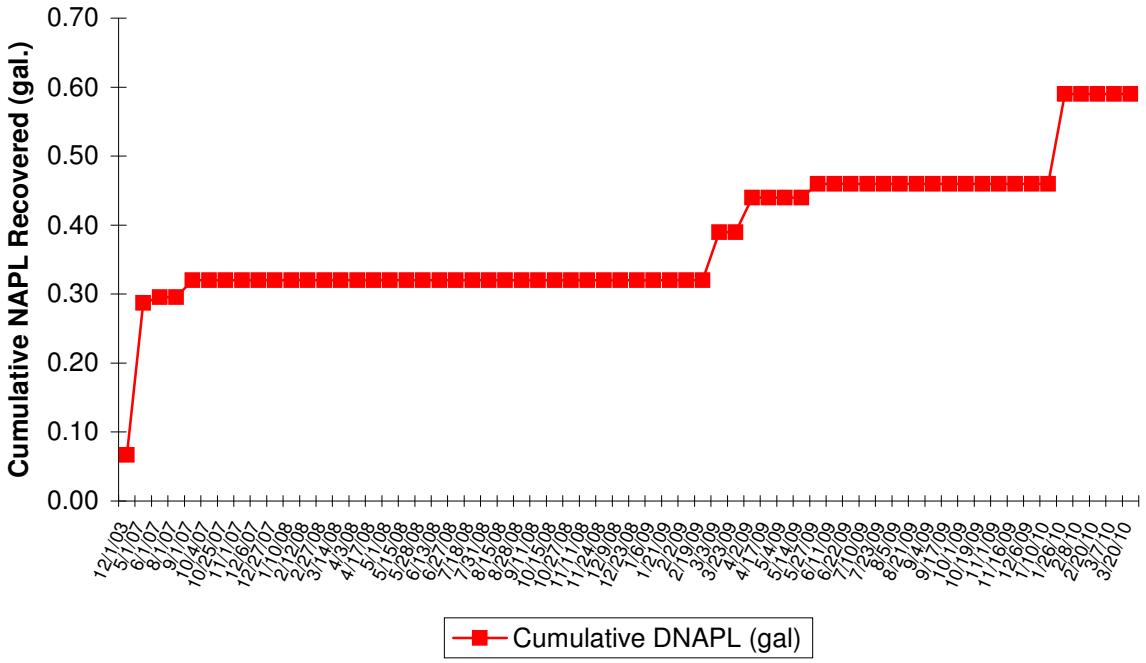


FIGURE 8M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



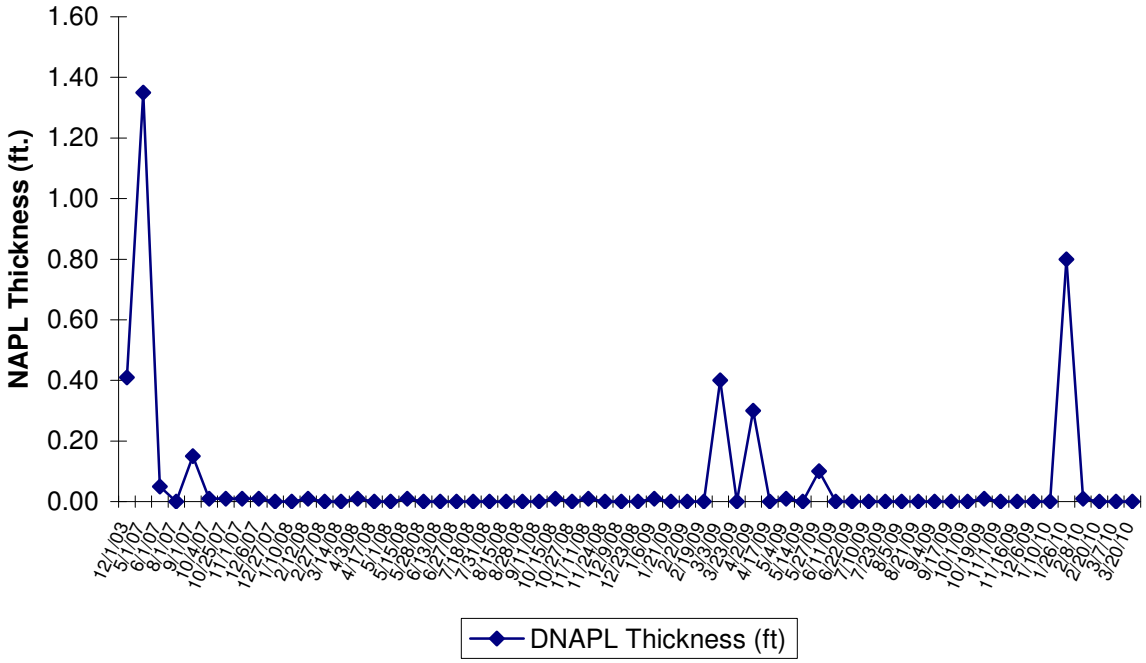
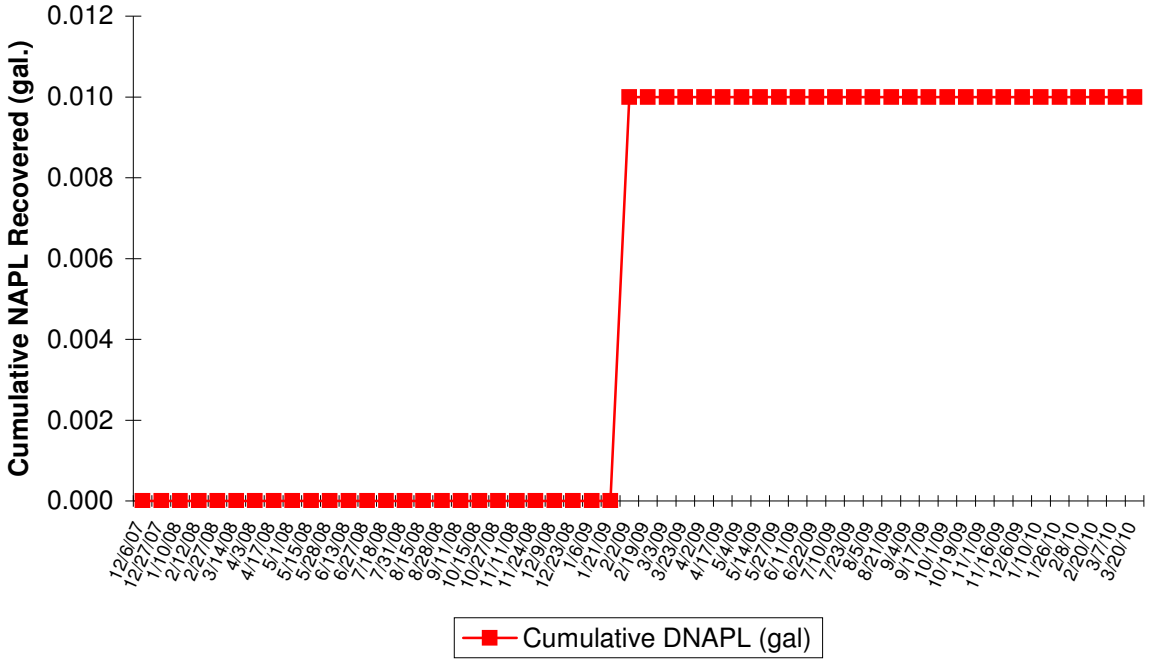


FIGURE 8N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



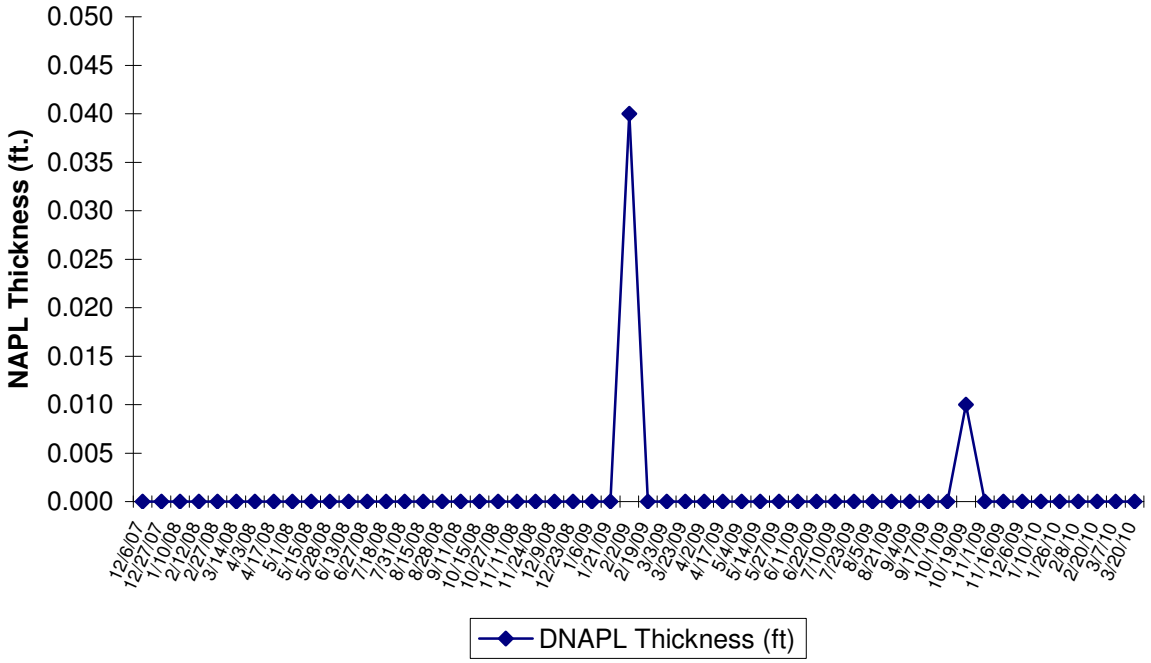
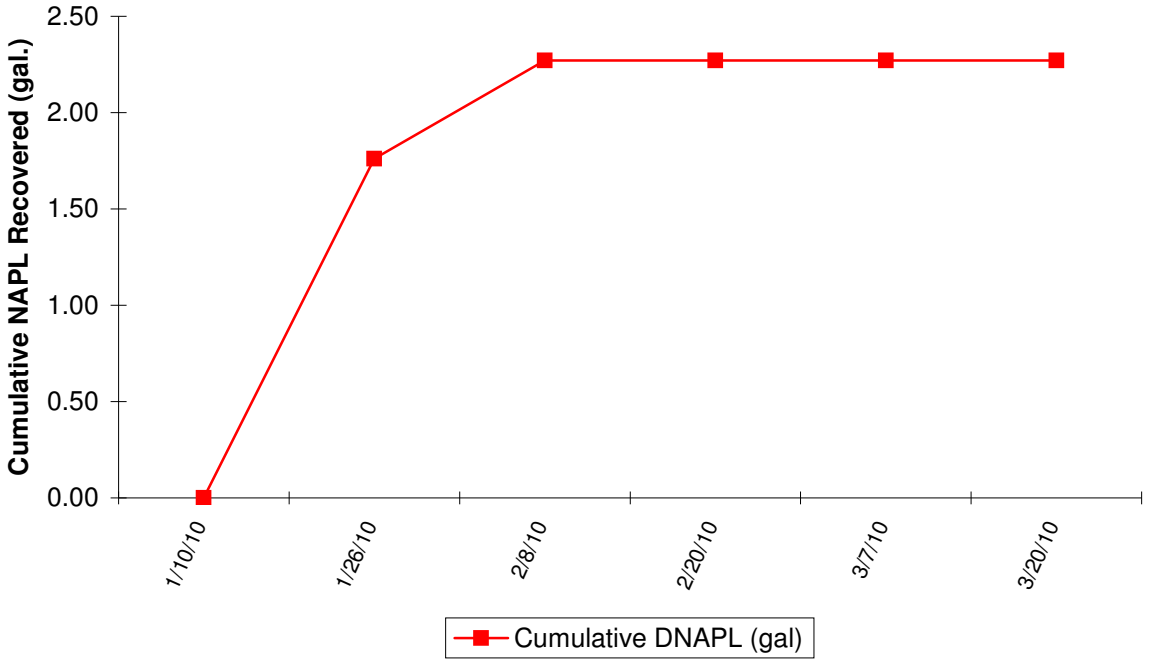


FIGURE 8O
Well HIMW-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



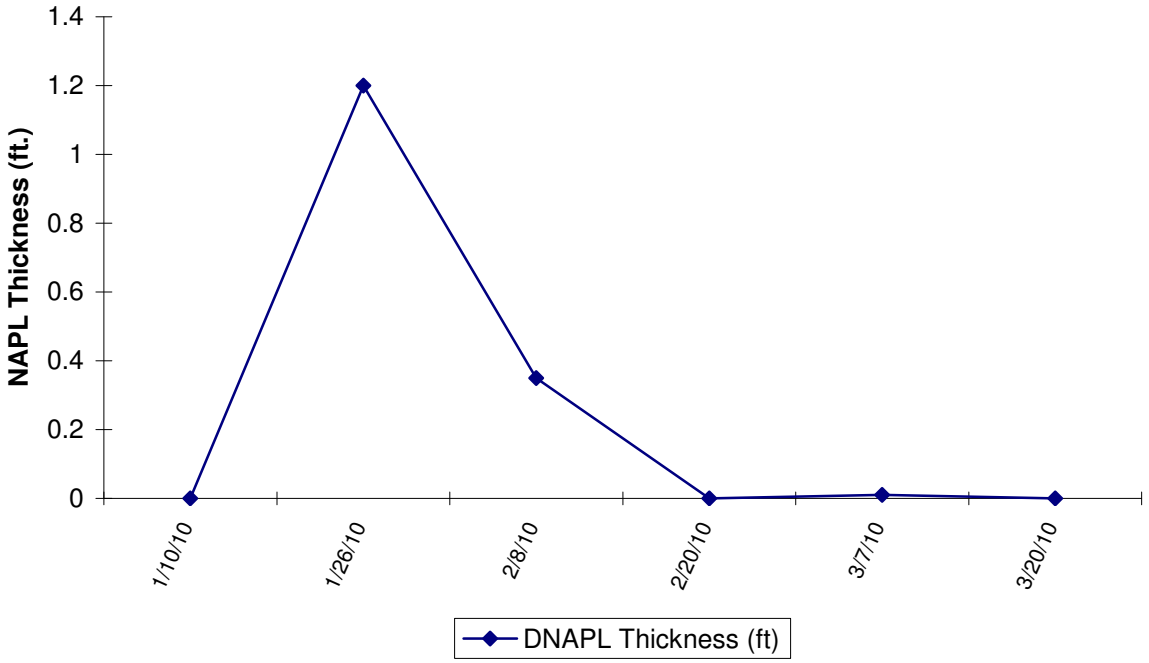
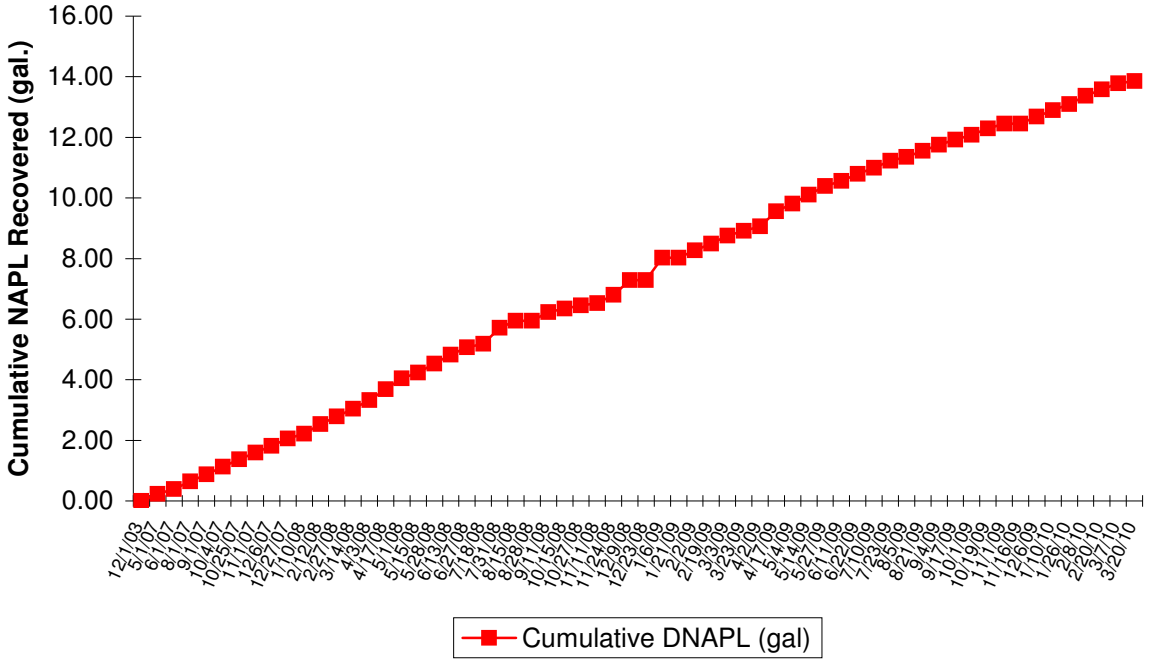


FIGURE 8P
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



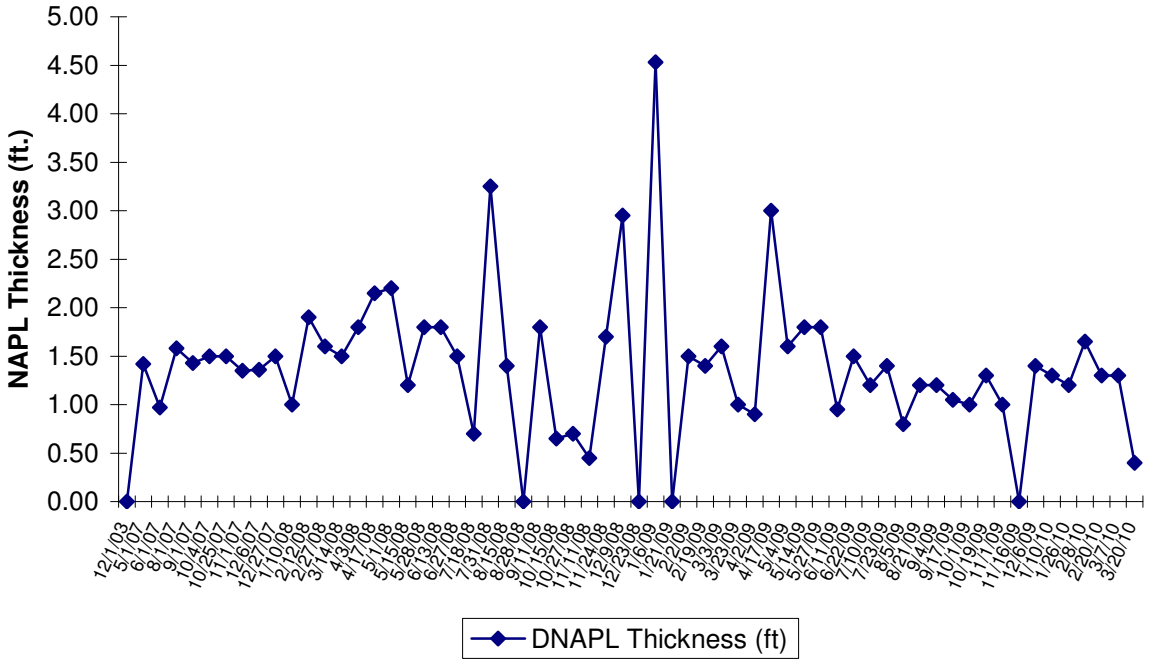
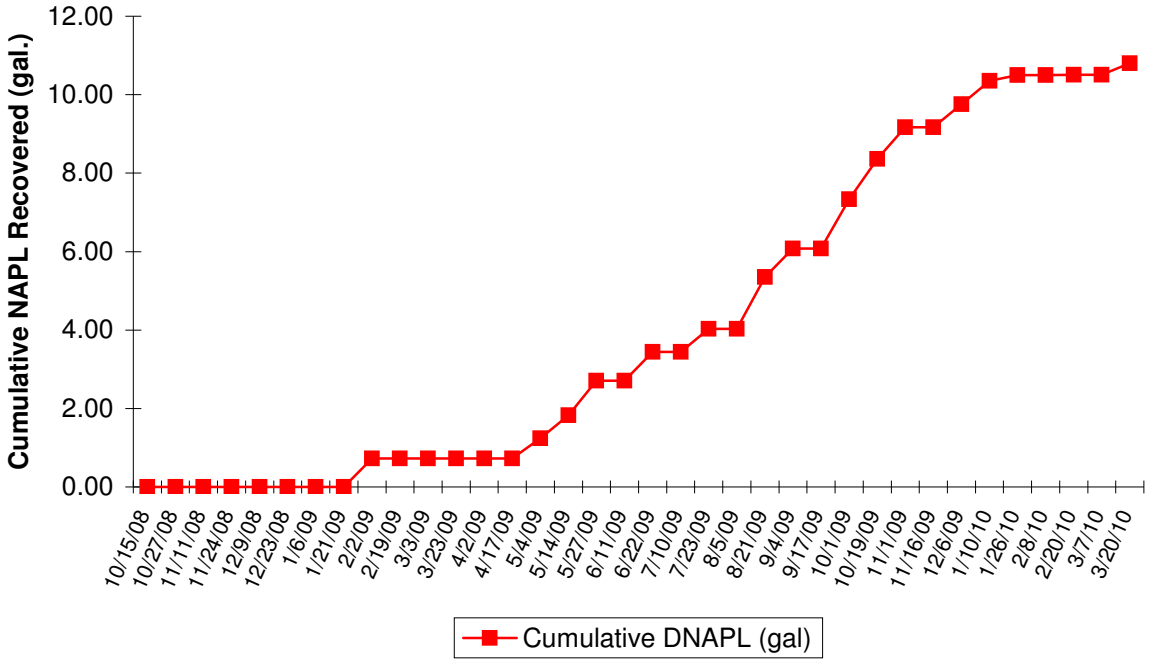


FIGURE 8Q
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



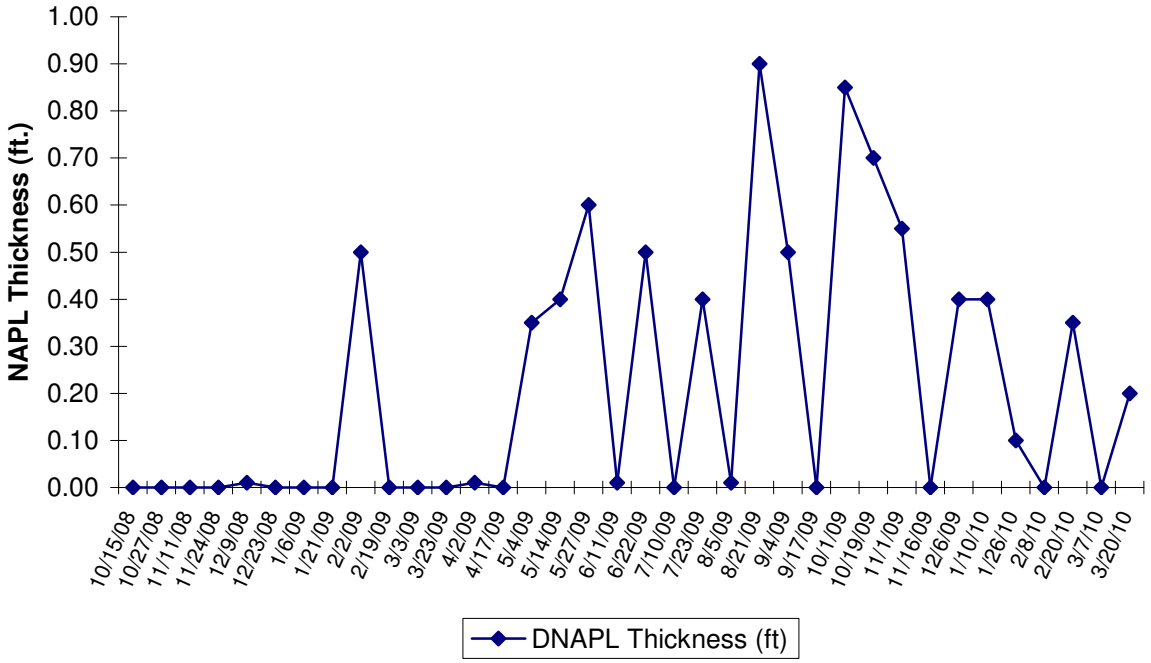
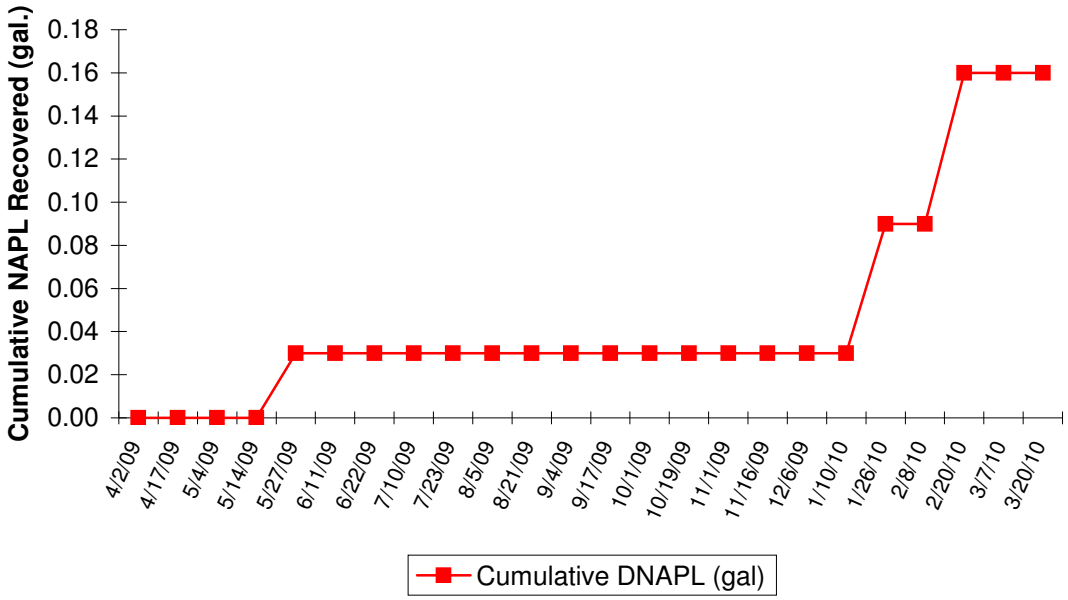


FIGURE 8R
Well IPR-05 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



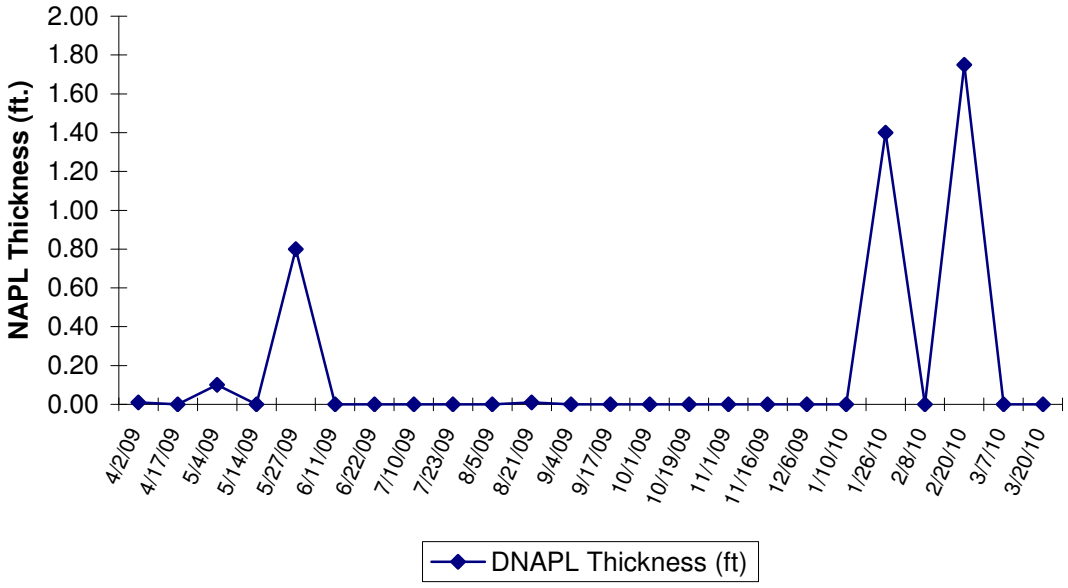
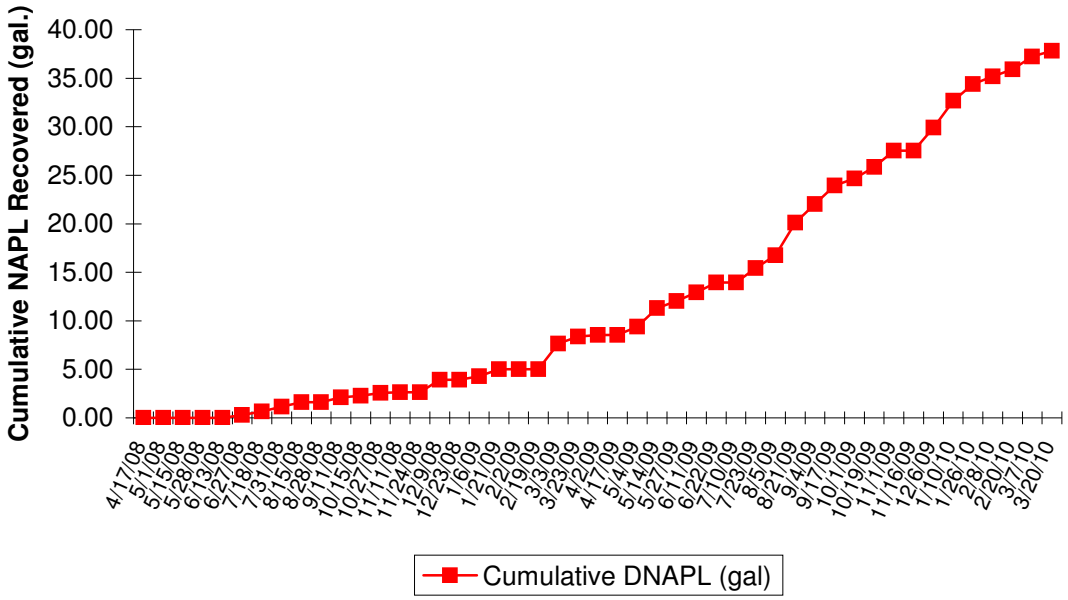


FIGURE 8S
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



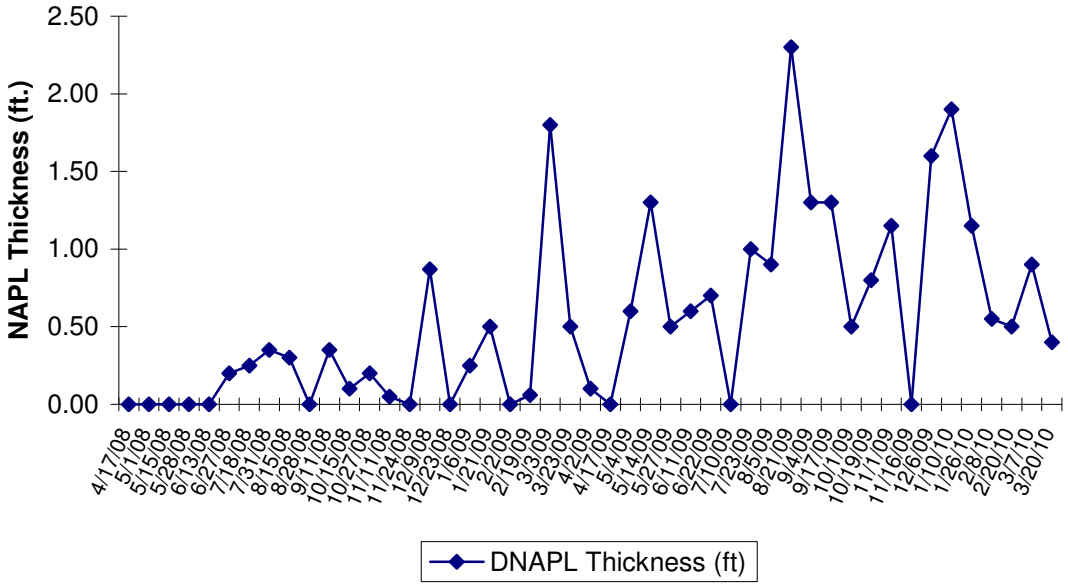
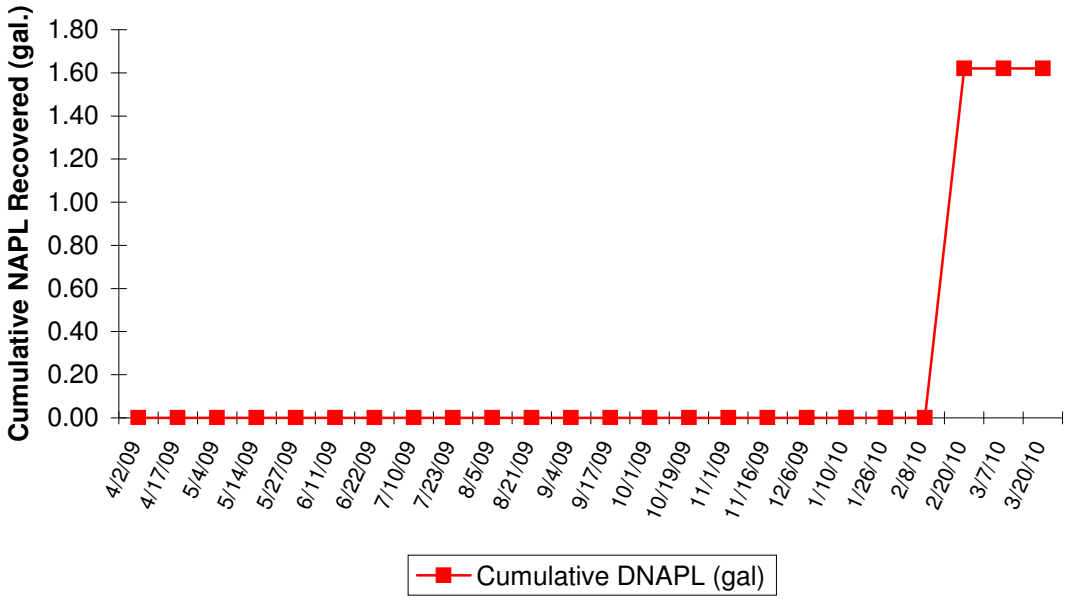


FIGURE 8T
Well IPR-09 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



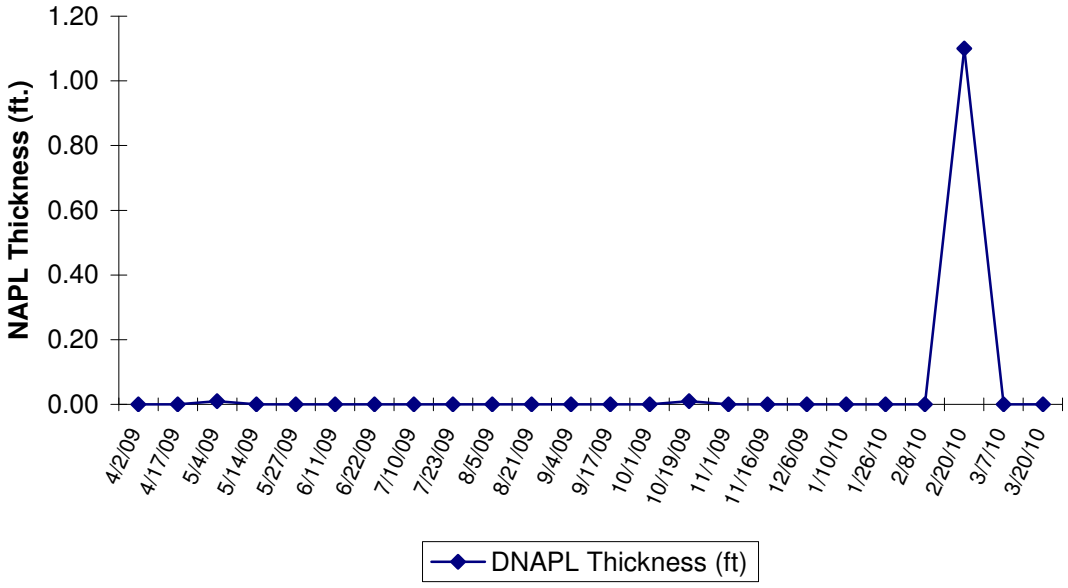
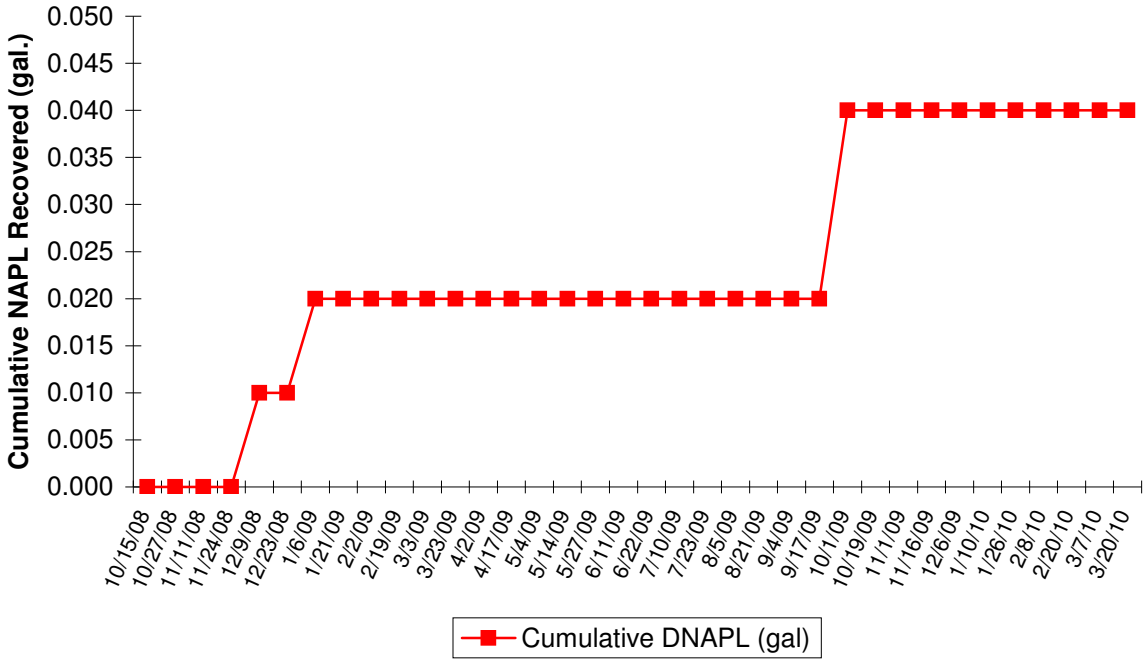


FIGURE 8U
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



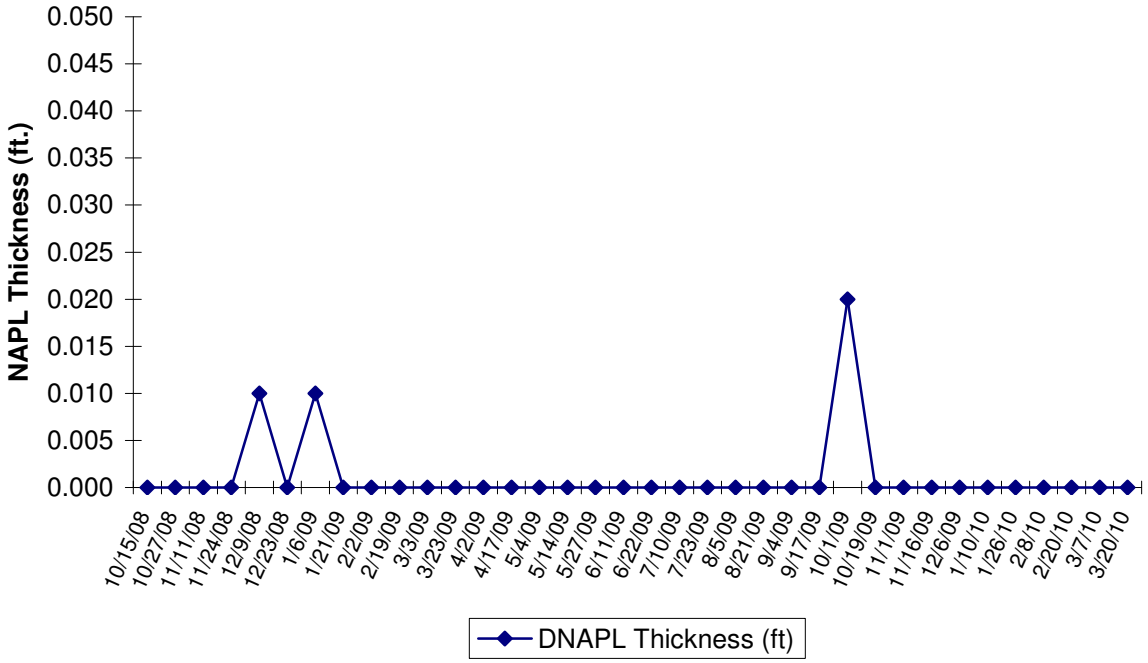
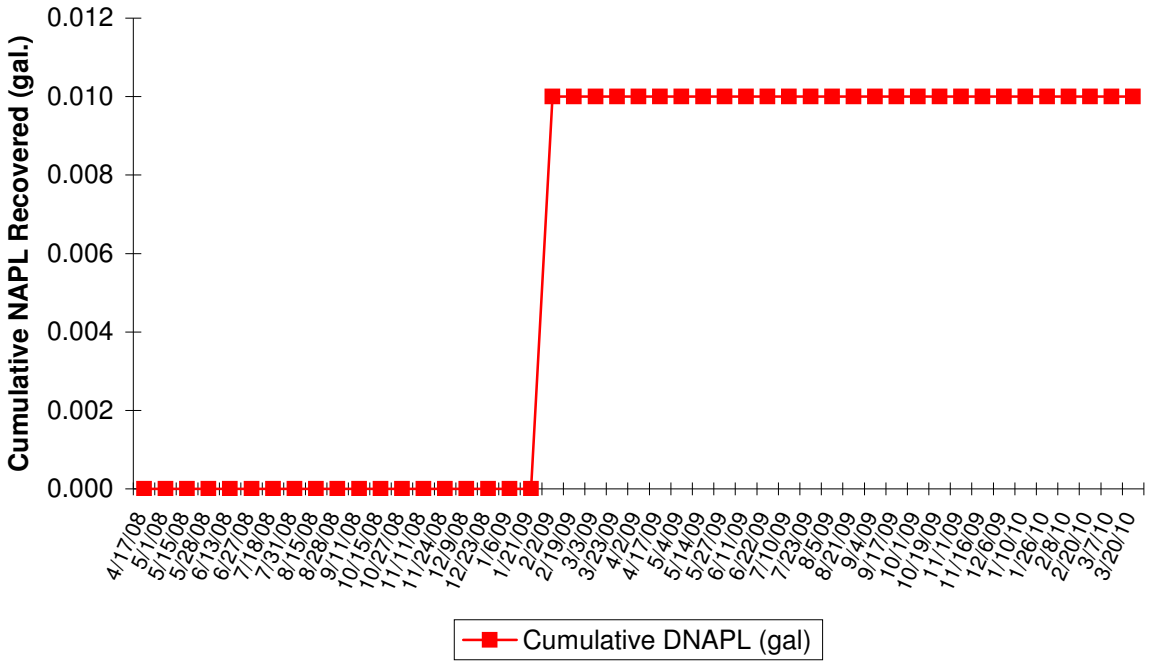


FIGURE 8V
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



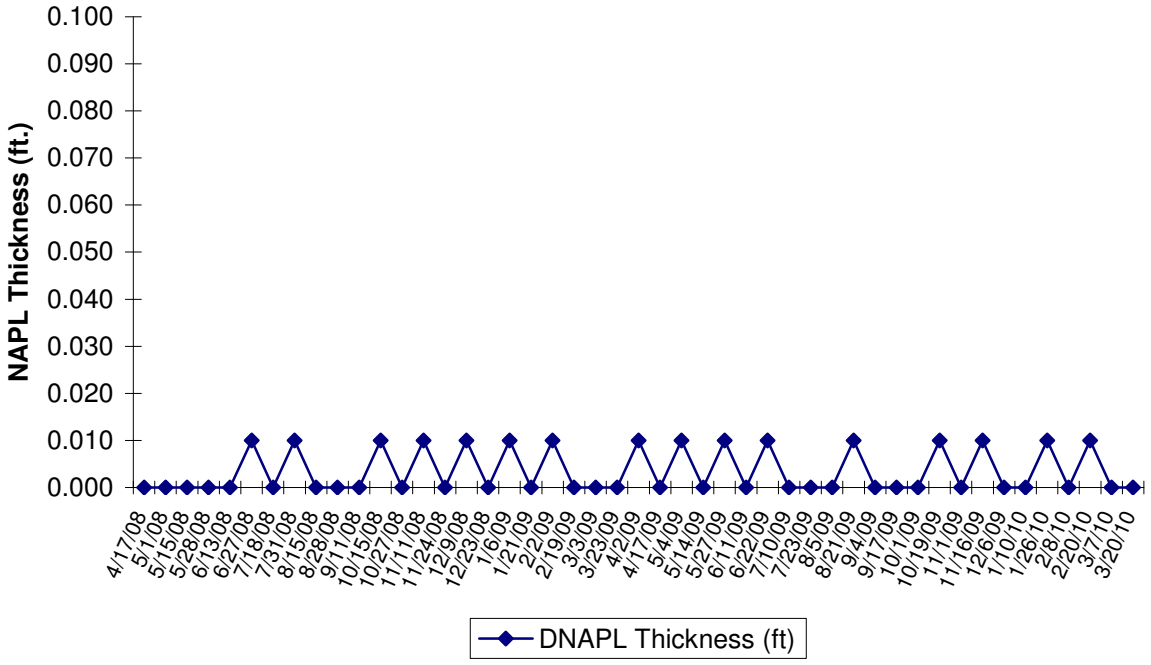
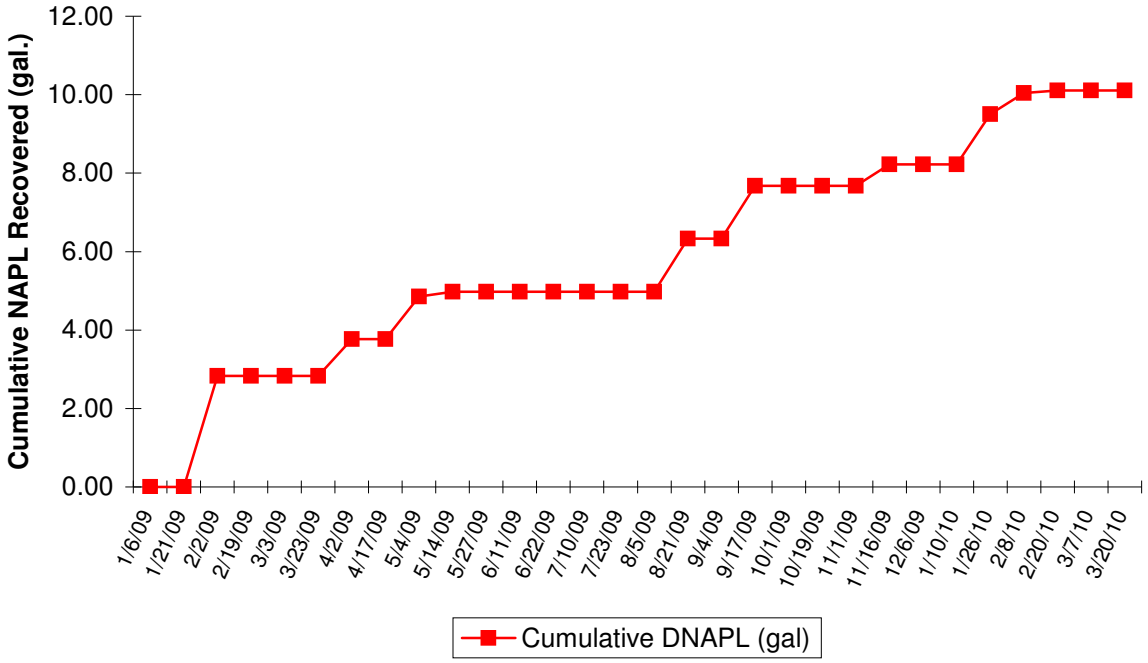


FIGURE 8W
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



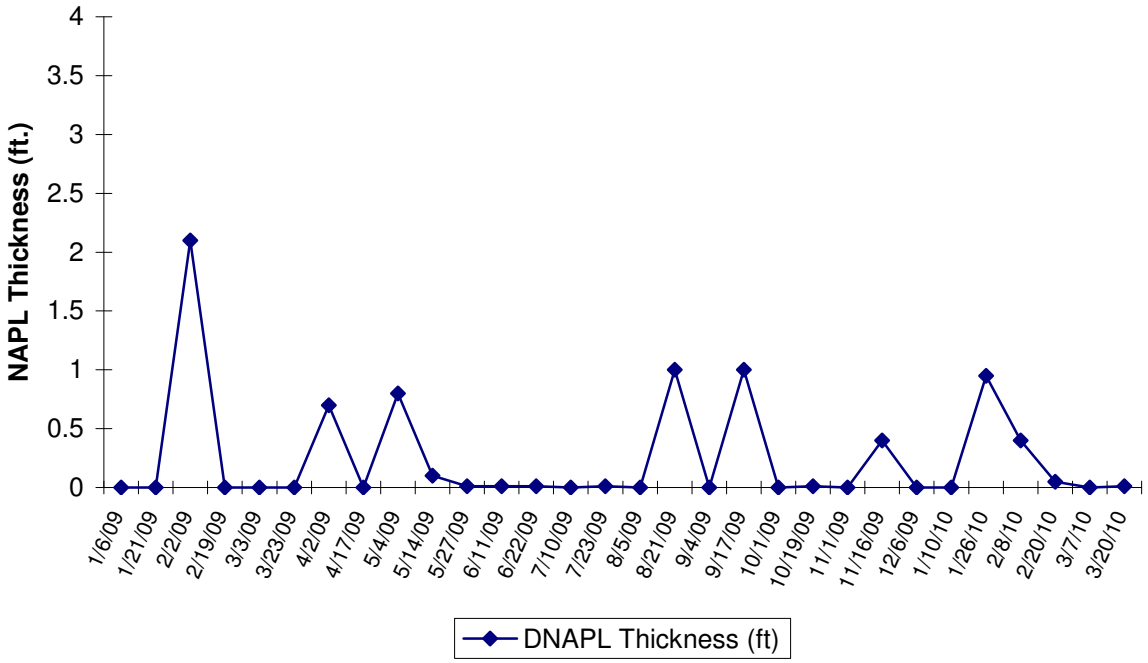
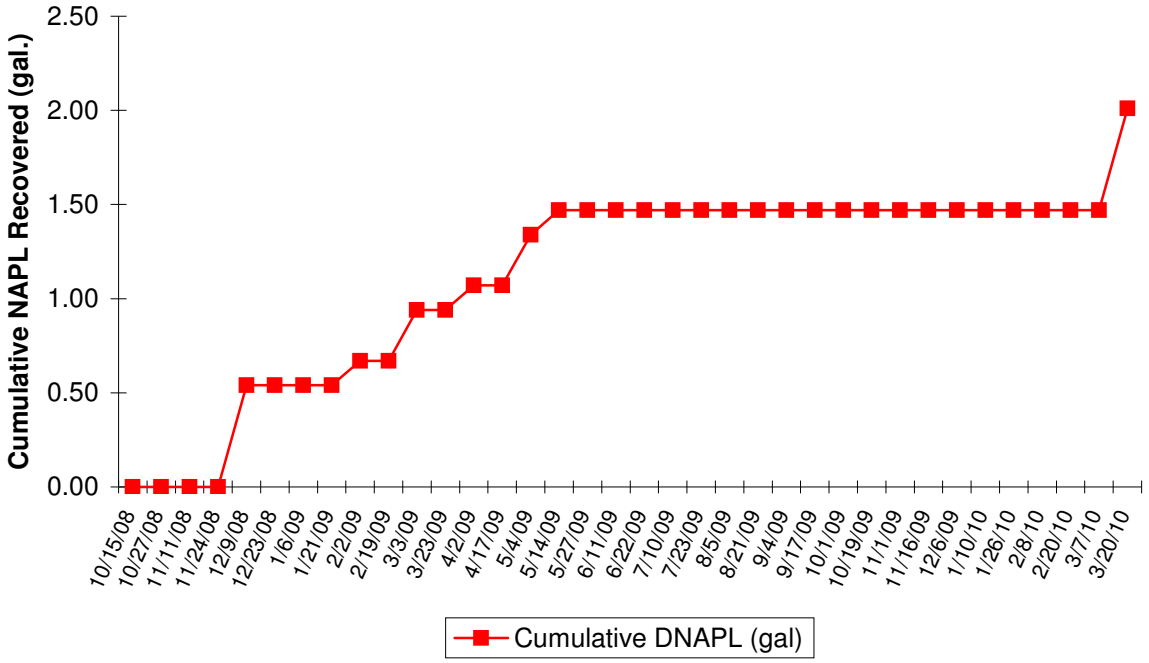


FIGURE 8X
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



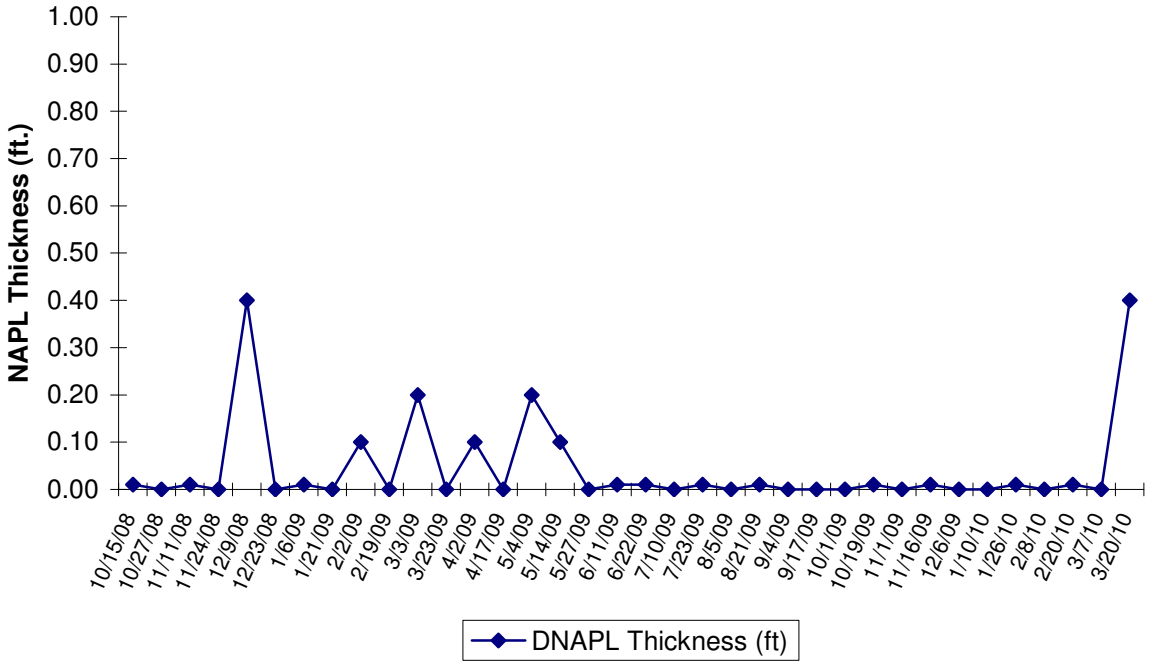
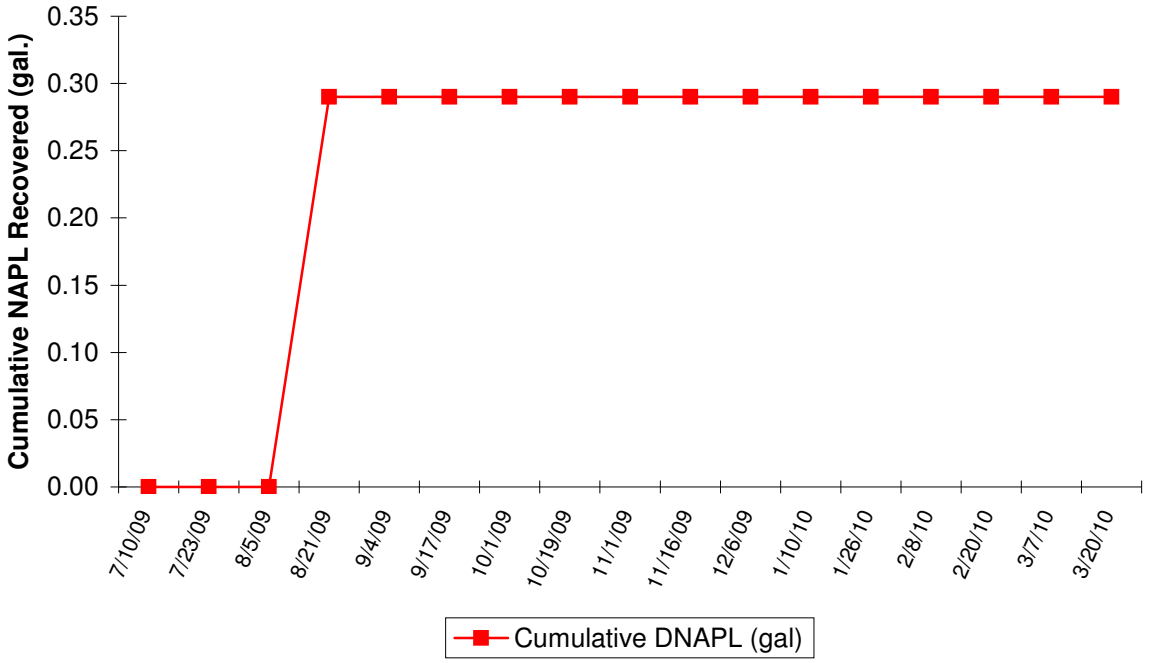


FIGURE 8Y
Well IPR-18 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



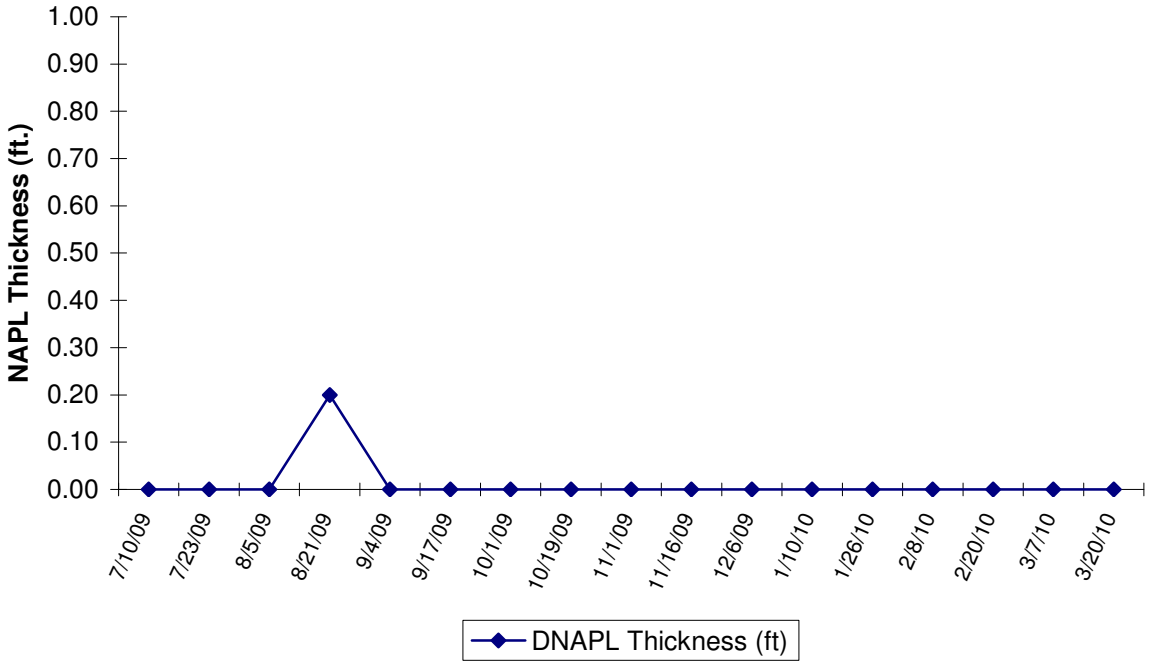
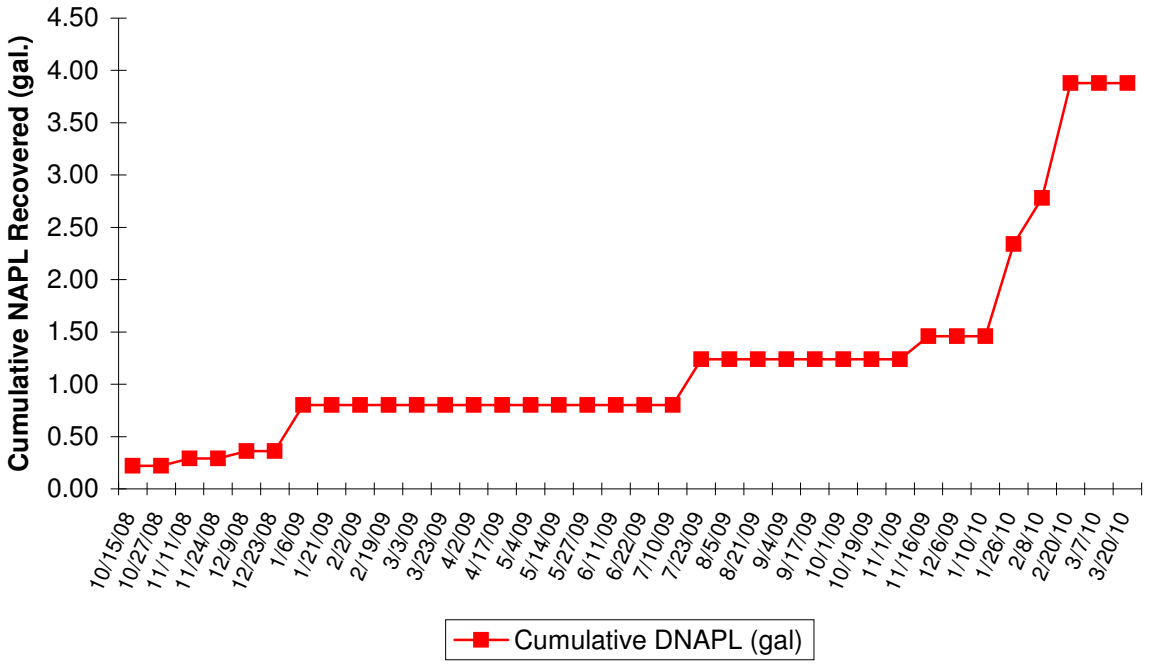


FIGURE 8Z
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



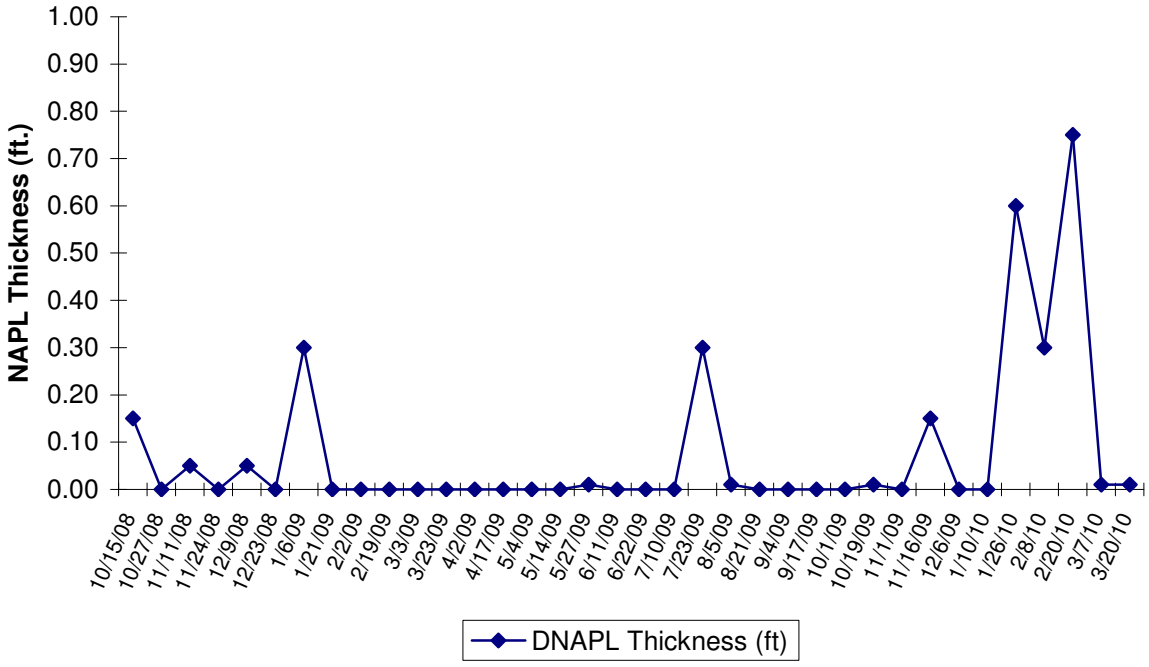
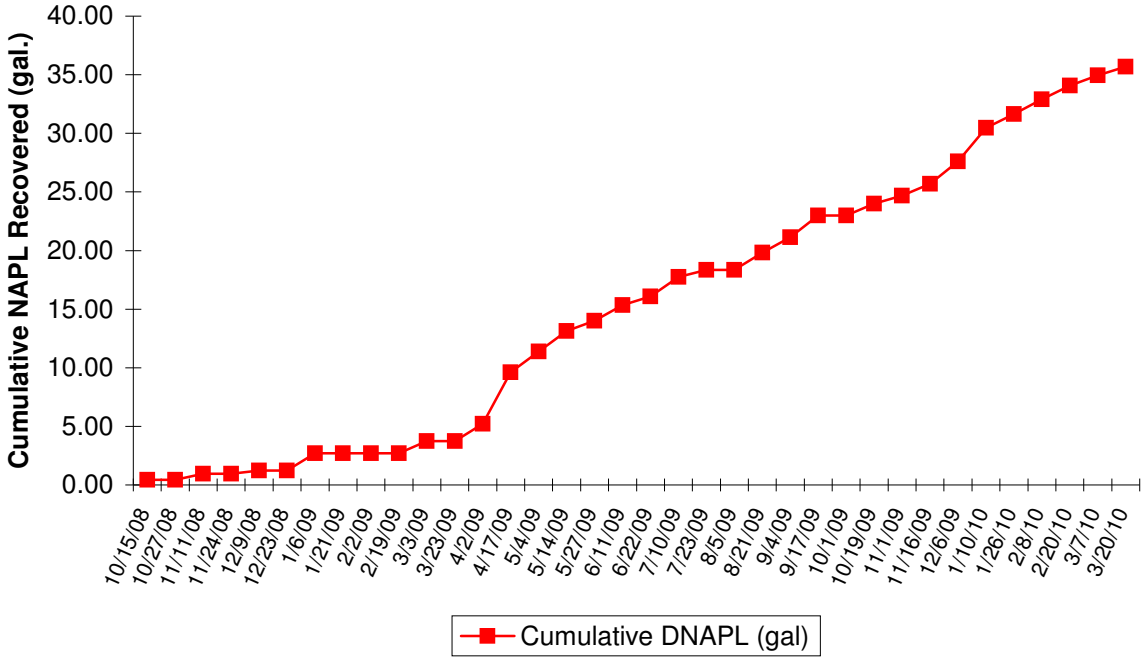


FIGURE 8AA
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



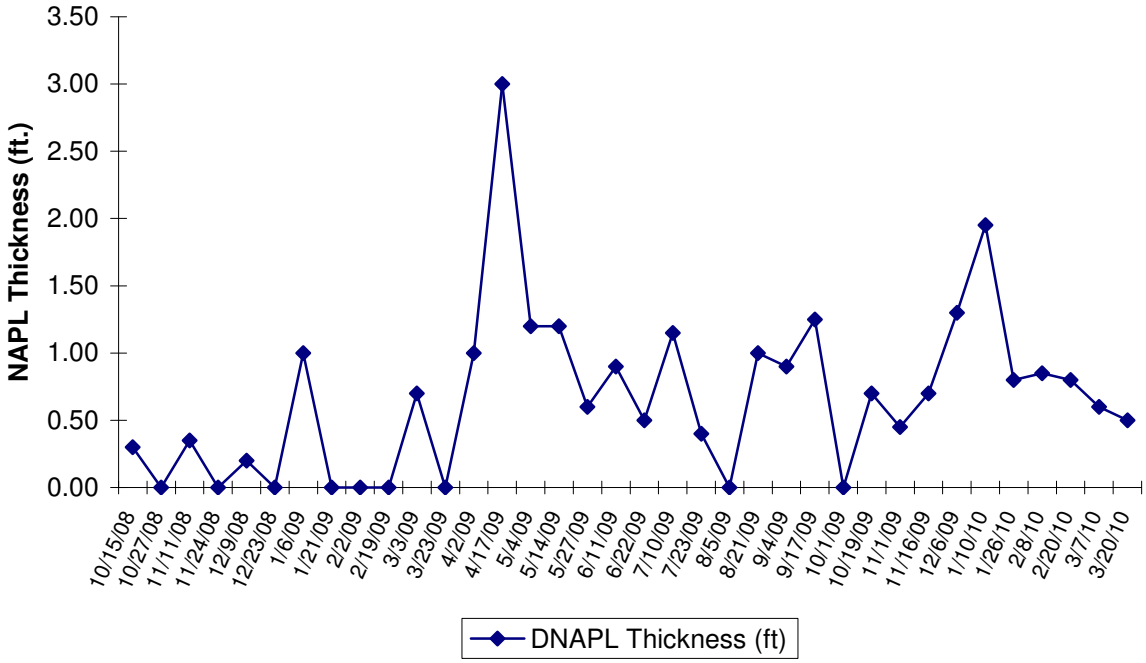
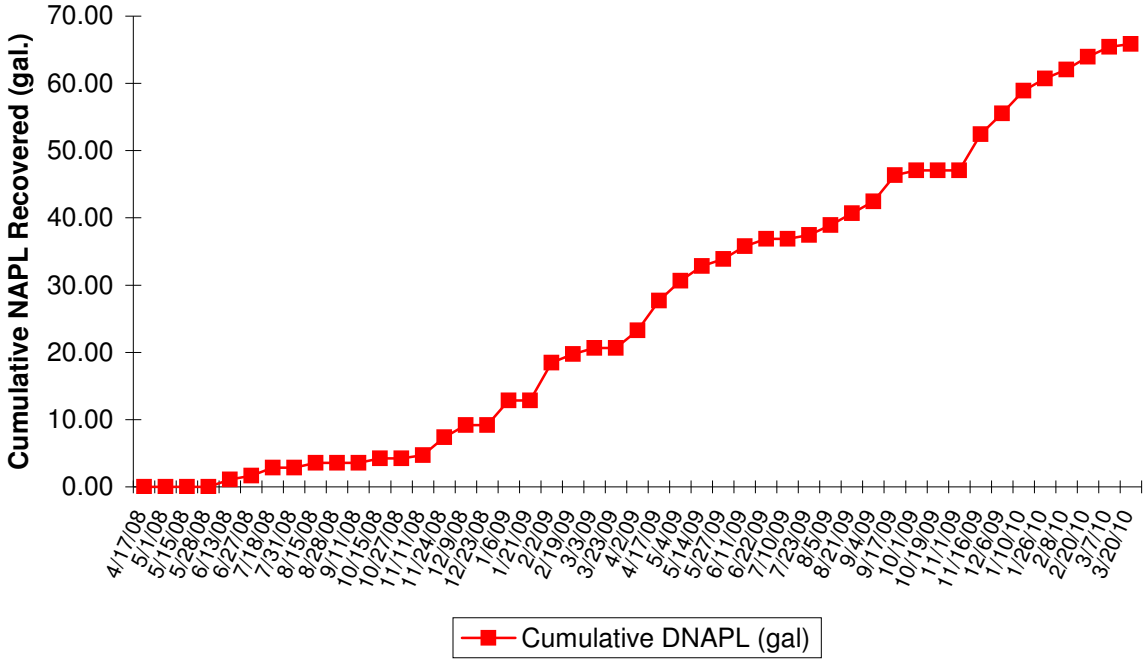


FIGURE 8AB
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



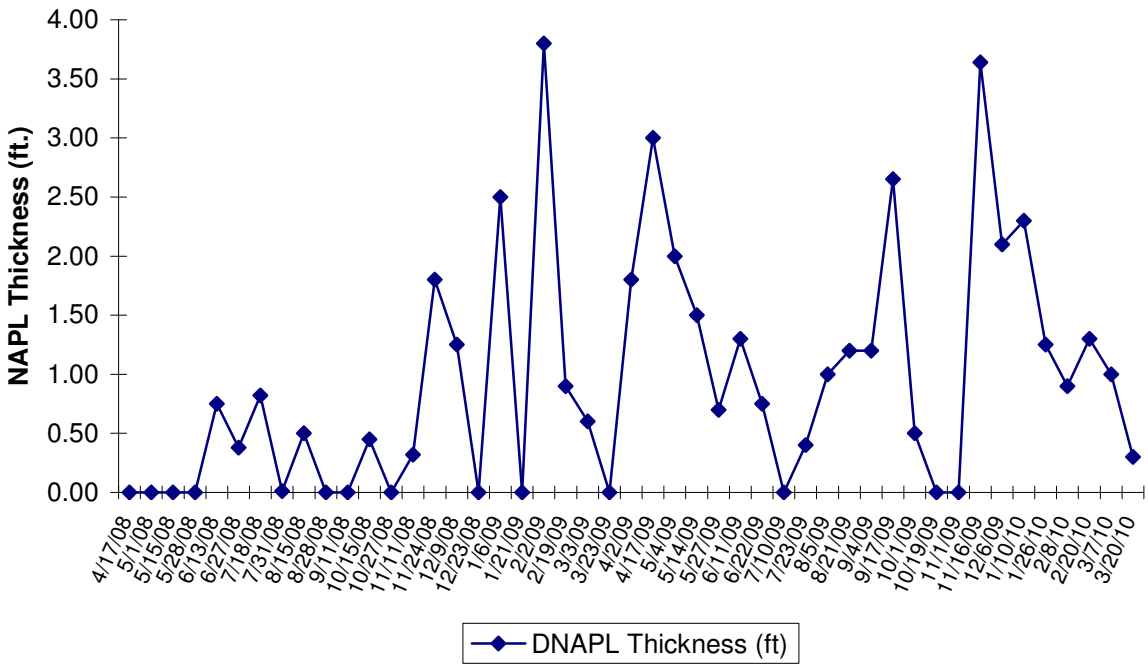
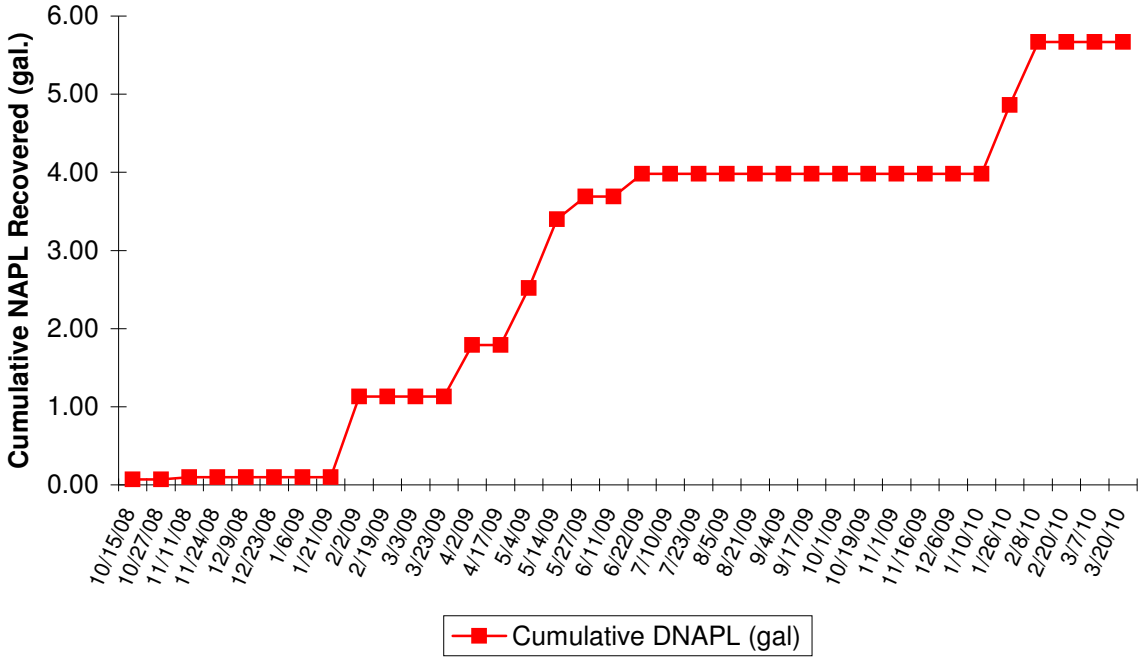


FIGURE 8AC
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



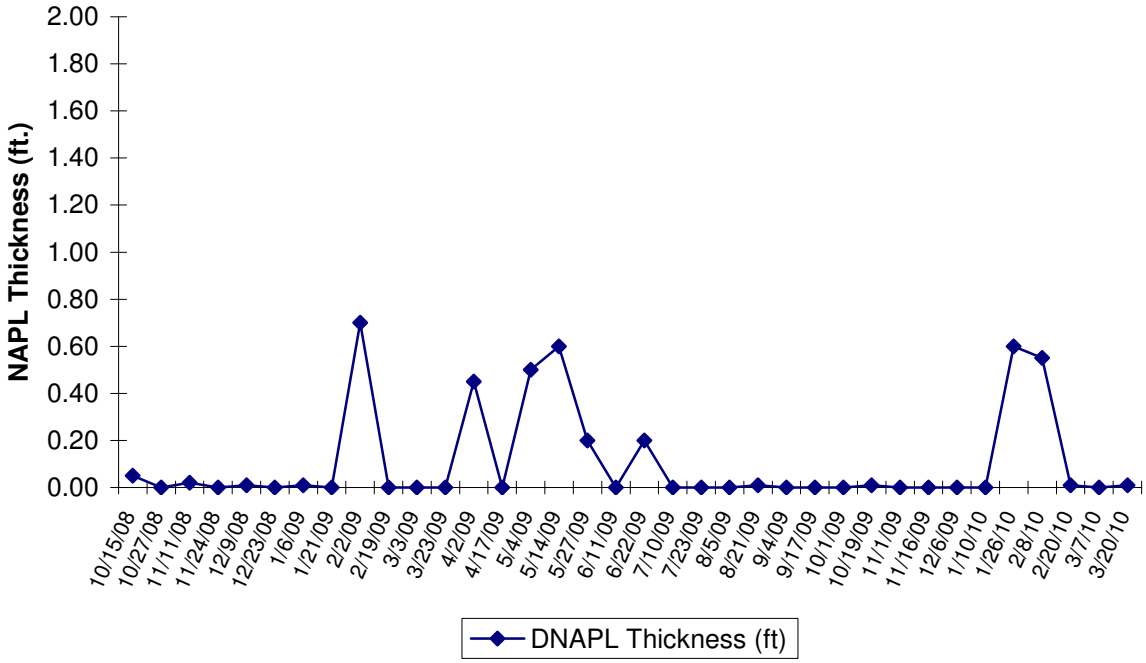
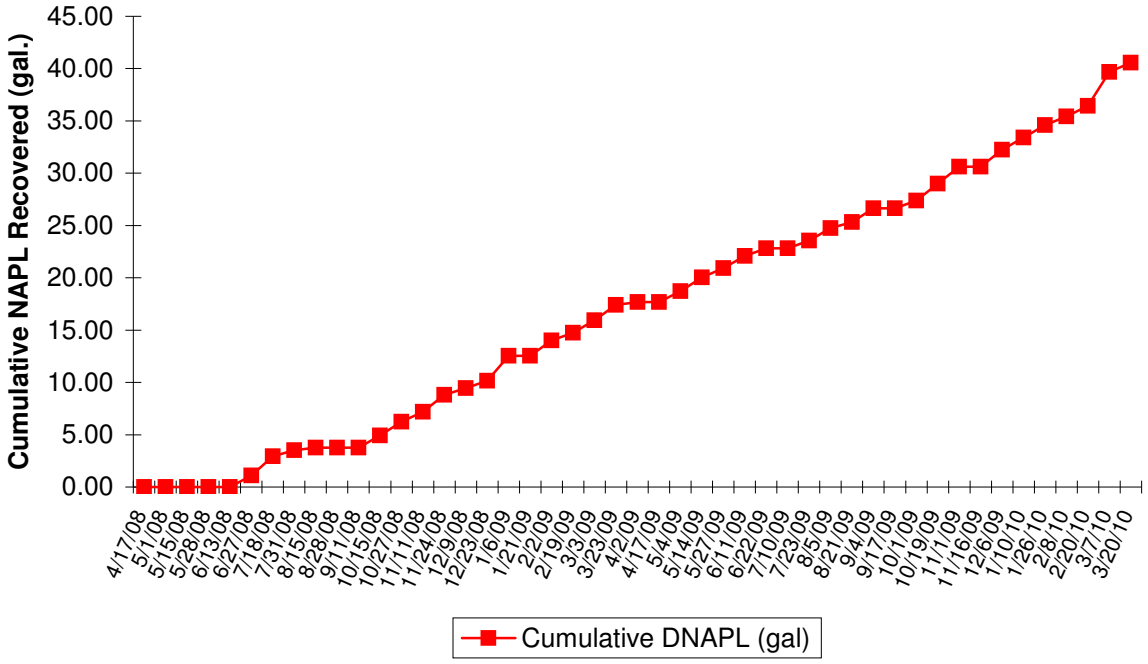


FIGURE 8AD
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



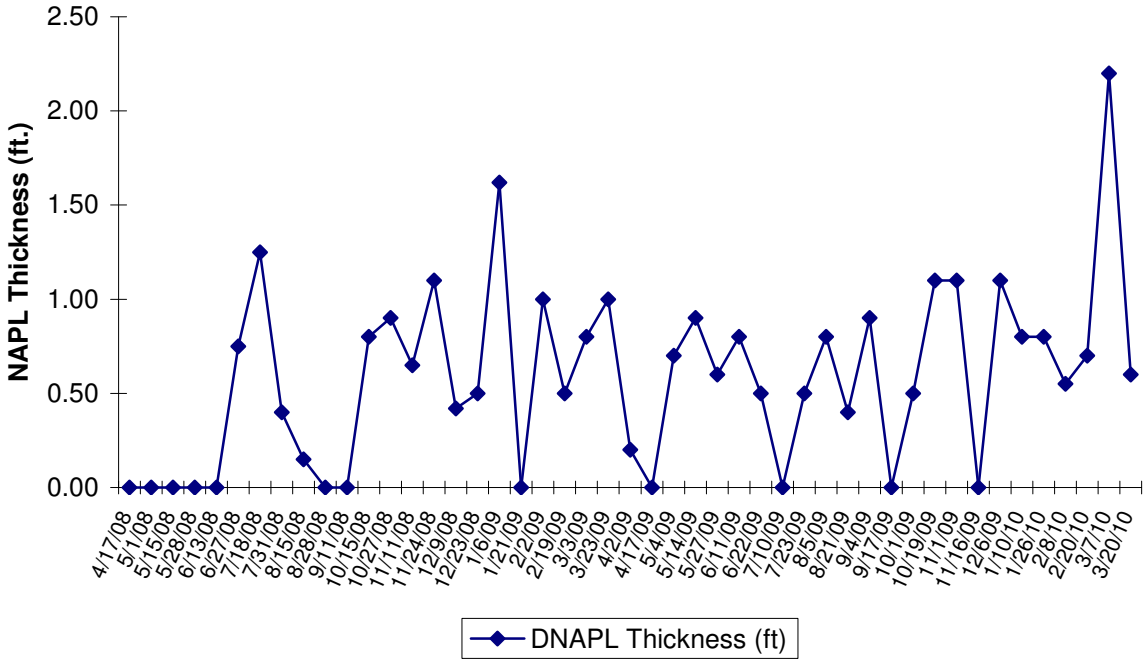
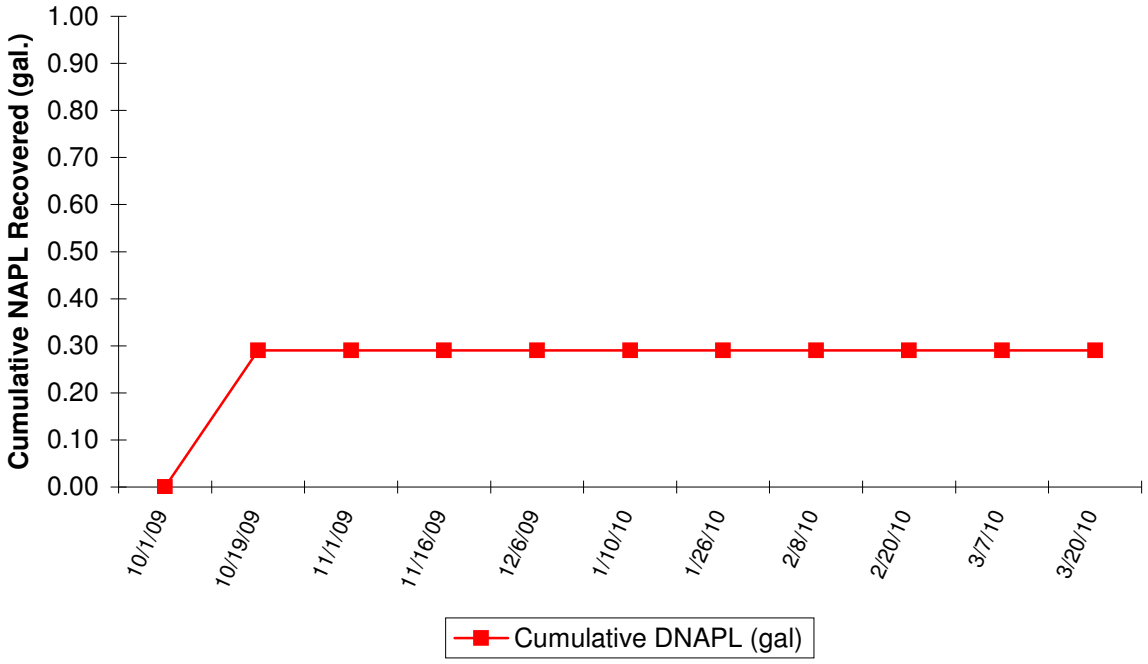


FIGURE 8AE
Well IPR-27 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



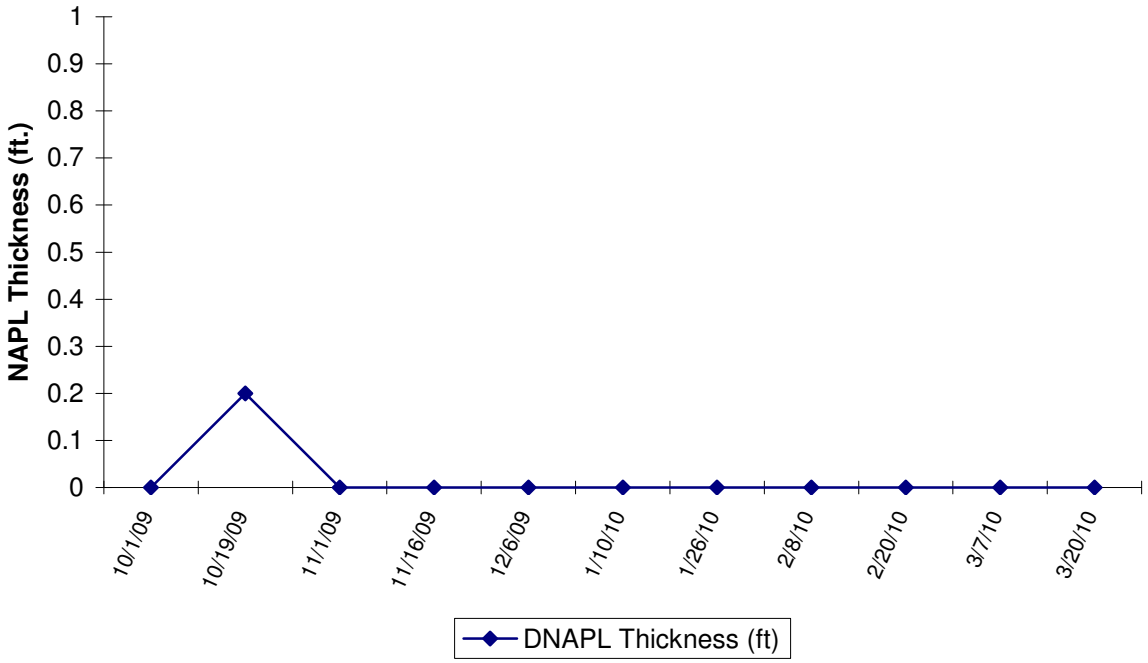
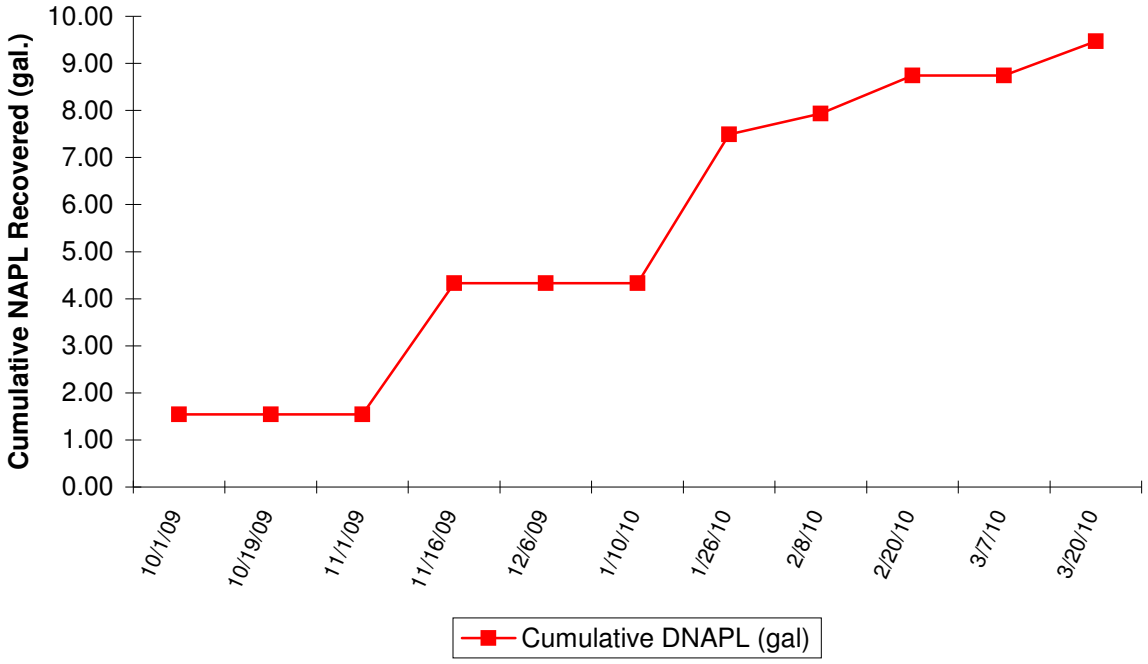
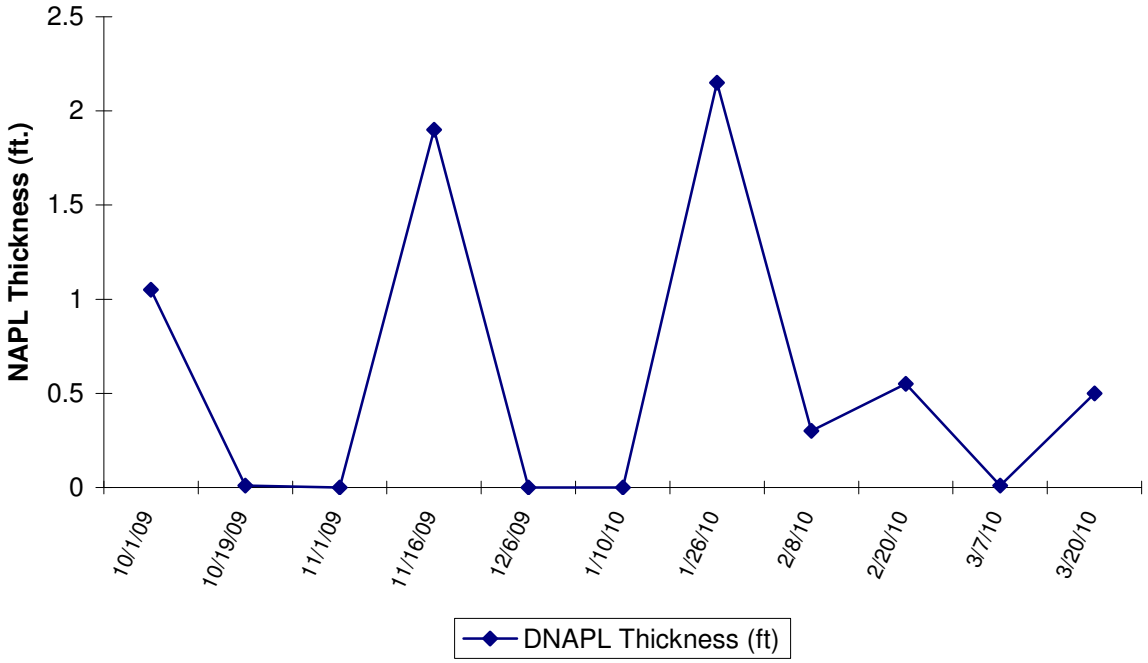


FIGURE 8AF
Well IPR-29 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site





ATTACHMENT A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

ATTACHMENT A
DATA USABILITY SUMMARY REPORT
FIRST QUARTER 2010

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

MARCH 2010

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 *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002.

Analytical data for sixteen (16) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, and one (1) trip blank collected by URS personnel from January 5-7, 2010 are discussed in this DUSR. The samples were collected as part of the first quarter 2010 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.

It should be noted that seven groundwater samples were collected for total cyanide analysis, but the results are not discussed in this DUSR because the data are being used for the in-situ solidification/stabilization (ISS) study conducted at the site.

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,* October 2006; and

- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 3*, October 2006.

The limited data validation included a review of completeness of all required deliverables; holding times; quality control (QC) results (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 concentration) 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 Appendix A. Documentation supporting the qualification of data, if necessary, is presented in Appendix 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. HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except for the following instance.

- The sample collection time for HIMW-20I and its corresponding MS/MSD did not match on the COC. The laboratory contacted the URS field technician to resolve this discrepancy, and they were instructed to revise the sample time on the COC for the MS/MSD so that it matched that of the parent sample.

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

For PAH analyses, the percent relative standard deviations (%RSDs) in the initial calibration (ICAL) were greater than 15% for naphthalene, anthracene, benzo(a)anthracene, and benzo(k)fluoranthene. The detected results for naphthalene and anthracene in the groundwater samples were qualified 'J'. No data qualification was necessary for benzo(a)anthracene and benzo(k)fluoranthene, per USEPA Region II guidelines, because they weren't detected in any of the groundwater samples.

For PAH analyses, the percent differences (%Ds) between the ICAL average relative response factors (RRFs) and the RRFs in the continuing calibration (CCAL) standards were greater than 20.0% for benzo(b)fluoranthene, benzo(k)fluoranthene, and/or benzo(g,h,i)perylene. The following PAH results for all affected groundwater samples were qualified 'J' or 'UJ'.

Sample ID	Affected Compound
HIMW-05I, -08I, -08S, -08S-Dup, -12D, -12I, -12S, -13D, -13I, -14I, -15D, -15I, -20I, -20S, -20S-Dup	Benzo(k)fluoranthene
HIMW-05I, -12D, -12I, -12S, -20I	Benzo(b)fluoranthene, benzo(g,h,i) perylene

Documentation supporting the qualification of data (i.e., Forms 5, 6, and 7) is presented in Appendix B.

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-08S and HIMW-20S. The relative percent differences were generally ≤20%, which shows good field collection and laboratory analytical precision. USEPA Region II does not require data qualification for field duplicate 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 where noted above. URS does not recommend the re-collection of any samples at this time.

Prepared By: Peter R. Fairbanks **Date:** 3/4/10

Peter R. Fairbanks, Senior Chemist

Reviewed By: Mary E. Bitka **Date:** 3/4/10

Mary E. Bitka, Principal 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-005D	HIMW-005I	HIMW-005S	HIMW-008D	HIMW-008I
Sample ID			HIMW-05D	HIMW-5I	HIMW-05S	HIMW-8D	HIMW-08I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/17/10	01/10/10	01/17/10	01/15/10	01/12/10
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	2	3	1 U	1 U	1 U
Ethylbenzene	UG/L	-	1 U	1	1 U	1 U	1 U
Toluene	UG/L	-	6	2	1 U	1 U	1 U
Xylene (total)	UG/L	-	100	160	1 U	1 U	1 U
Total BTEX	UG/L	100	108	166	ND	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	200 DJ	520 D	10 U	10 U	10 U
Acenaphthene	UG/L	-	2 J	12	10 U	10 U	10 U
Acenaphthylene	UG/L	-	20	170 DJ	10 U	10 U	10 U
Anthracene	UG/L	-	10 U	2 J	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	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 UJ	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U	10 UJ	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 U	10 UJ	10 U	10 U	10 UJ
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	25	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	-	1,500 DJ	2,300 DJ	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	18	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	1,722	3,047	ND	ND	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.

(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. ND - Not detected.
Made By_PRF 02/23/10_: Checked By CHK 2/24/10

Detection Limits shown are PQL

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[SDG] = 'KEY-URS067' AND [MATRIX] = 'WG' AND [PRCCODE] <> 'MI'

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

Location ID			HIMW-008S	HIMW-008S	HIMW-012D	HIMW-012I	HIMW-012S
Sample ID			HIMW-08S	HIMW-08S DUP	HIMW-12D	HIMW-12I	HIMW-12S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/12/10	01/12/10	01/06/10	01/07/10	01/07/10
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Benzene	UG/L	-	1 U	1 U	1 U	35	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	5	1 U
Total BTEX	UG/L	100	ND	ND	ND	40	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	39	10 U
Acenaphthylene	UG/L	-	4 J	5 J	10 U	46	10 U
Anthracene	UG/L	-	2 J	2 J	10 U	1 J	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	2 J	2 J	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 U	10 U	10 UJ	10 UJ	10 UJ
Benzo(g,h,i)perylene	UG/L	-	2 J	2 J	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 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	27	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	2 J	1 J	10 U	10 U	10 U
Naphthalene	UG/L	-	10 U	10 U	10 U	3 J	10 U
Phenanthrene	UG/L	-	10 U	10 U	10 U	8 J	10 U
Pyrene	UG/L	-	10 U	2 J	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	12	14	ND	124	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.

(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. ND - Not detected.
Made By_PRF 02/23/10_; Checked By_ 2/24/10

Detection Limits shown are PQL

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[SDG] = 'KEY-URS087' AND [MATRIX] = 'WG' AND [PRCODE] <> 'MI'

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

Location ID			HIMW-013D	HIMW-013I	HIMW-014I	HIMW-015D	HIMW-015I
Sample ID			HIMW-13D	HIMW-13I	HIMW-14I	HIMW-15D	HIMW-15I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/06/10	01/06/10	01/05/10	01/05/10	01/05/10
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Benzene	UG/L	-	3	190	39	1 U	8
Ethylbenzene	UG/L	-	1 U	7	1 U	1 U	1 U
Toluene	UG/L	-	1 U	2	1 U	1 U	1
Xylene (total)	UG/L	-	2	7	2	1 U	1 U
Total BTEX	UG/L	100	5	206	41	ND	9
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	-	6 J	7 J	7 J	10 U	2 J
Acenaphthylene	UG/L	-	12	56	13	10 U	8 J
Anthracene	UG/L	-	10 U	1 J	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	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 UJ	10 UJ	10 UJ	10 UJ	10 UJ
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	3 J	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	2 J	10 U	10 U	10 U
Phenanthrene	UG/L	-	10 U	9 J	3 J	10 U	1 J
Pyrene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	18	85	26	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.

( ) 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. ND - Not detected.

Made By_PRF 02/23/10_; Checked By_CMT 2/24/10

Detection Limits shown are PQL

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[SDG] = 'KEY-URS067' AND [MATRIX] = 'WG' AND [PRCCODE] <> 'MI'

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

Location ID			HIMW-020I	HIMW-020S	HIMW-020S
Sample ID			HIMW-20I	HIMW-20S	HIMW-20S DUP
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			01/08/10	01/13/10	01/13/10
Parameter	Units	Criteria*			Field Duplicate (1-1)
Volatile Organic Compounds					
Benzene	UG/L	-	140	1 U	1 U
Ethylbenzene	UG/L	-	6	1 U	1 U
Toluene	UG/L	-	1 U	1 U	1 U
Xylene (total)	UG/L	-	30	1 U	1 U
Total BTEX	UG/L	100	176	ND	ND
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/L	-	2 J	10 U	10 U
Acenaphthene	UG/L	-	9 J	10 U	10 U
Acenaphthylene	UG/L	-	140 D	10 U	10 U
Anthracene	UG/L	-	4 J	10 U	10 U
Benzo(a)anthracene	UG/L	-	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	-	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	-	10 UJ	10 U	10 U
Benzo(g,h,i)perylene	UG/L	-	10 UJ	10 U	10 U
Benzo(k)fluoranthene	UG/L	-	10 UJ	10 UJ	10 UJ
Chrysene	UG/L	-	10 U	10 U	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U	10 U	10 U
Fluoranthene	UG/L	-	10 U	10 U	10 U
Fluorene	UG/L	-	20	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	-	10 U	10 U	10 U
Naphthalene	UG/L	-	15 J	10 U	10 U
Phenanthrene	UG/L	-	31	10 U	10 U
Pyrene	UG/L	-	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	100	221	ND	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. ND - Not detected.
Made By_PRF 02/23/10_; Checked By_ 2/24/10

Detection Limits shown are PQL

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[SDG] = 'KEY-URS087' AND [MATRIX] = 'WG' AND [PRCCODE] <> 'MI'

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-010610	TB-010710	TB 011110	TB-01-13-10	TB-011710
Matrix			Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/06/10	01/07/10	01/11/10	01/13/10	01/17/10
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip 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

*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.

ND - Not detected.

Made By_PRF 02/22/10_; Checked By_ 2/24/10

Detection Limits shown are PQL

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[SDG] = 'KEY-URS087' AND [MATRIX] = 'WQ' AND [PRCCODE] <> 'MI'

APPENDIX A

VALIDATED FORM 1'S

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68219.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: not dec. Date Analyzed: 01/28/10

GC Column: ZB-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	2	
108-88-3	Toluene	6	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	100	

KEY-URS087 S78

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68057.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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	3	
108-88-3	Toluene	2	
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	160	

KEY-URS087 S68

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68220.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: not dec. Date Analyzed: 01/28/10

GC Column: ZB-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-URS087 S79

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68062.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S71

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68066.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S72

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08S DUP

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68067.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S73

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001462-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68070.D

Level: (low/med) LOW Date Received: 01/15/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S77

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67996.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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-URS087 S64

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67997.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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	35	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	5	

KEY-URS087 S65

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67998.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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-URS087 S66

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67991.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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	3	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

KEY-URS087 S58

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67992.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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	190	
108-88-3	Toluene	2	
100-41-4	Ethylbenzene	7	
1330-20-7	Xylene (total)	7	

KEY-URS087 S59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67993.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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	39	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

KEY-URS087 S60

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67994.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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-URS087 S61

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67995.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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	8	
108-88-3	Toluene	1	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

KEY-URS087 S62

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68054.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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	140	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	6	
1330-20-7	Xylene (total)	30	

KEY-URS087 S69

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68068.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S74

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S DUP

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68069.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S75

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-010610

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67990.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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-URS087 S63

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-010710

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67999.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: not dec. Date Analyzed: 01/08/10

GC Column: ZB-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-URS087 S67

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 011110

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68071.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S70

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01-13-10

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68063.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: not dec. Date Analyzed: 01/19/10

GC Column: ZB-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-URS087 S76

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-011710

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A68221.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: not dec. Date Analyzed: 01/28/10

GC Column: ZB-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-URS087 S80

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51873.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/20/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/21/10

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	1500 ~~750~~	E DJ
91-57-6	2-Methylnaphthalene	200 ~~220~~	E D J
208-96-8	Acenaphthylene	20	
83-32-9	Acenaphthene	2	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

2/23/10

KEY-URS087 S100

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51884.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/20/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/22/10

Injection Volume: 2 (µL) Dilution Factor: 50.00

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	1500	D J
91-57-6	2-Methylnaphthalene	200	DJ
208-96-8	Acenaphthylene	500	U
83-32-9	Acenaphthene	500	U
86-73-7	Fluorene	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) Cannot be separated from Diphenylamine

2/23/10

KEY-URS087 S101

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51748.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/14/10

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	2300 ~~1200~~	~~E~~ DJ
91-57-6	2-Methylnaphthalene	520 ~~560~~	~~E~~ D
208-96-8	Acenaphthylene	170	EDJ
83-32-9	Acenaphthene	12	
86-73-7	Fluorene	25	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	2	J 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 J
207-08-9	Benzo(k)fluoranthene	10	U J
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

2/23/10

2

KEY-URS087 S90

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5IDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51792.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

Injection Volume: 2 (µL) Dilution Factor: 50.00

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	2300	D J
91-57-6	2-Methylnaphthalene	520	D
208-96-8	Acenaphthylene	170	DJ
83-32-9	Acenaphthene	500	U
86-73-7	Fluorene	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) Cannot be separated from Diphenylamine

2/23/10

KEY-URS087 S91

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-05S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001524-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51874.D

Level: (low/med) LOW Date Received: 01/19/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/20/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/21/10

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001462-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51840.D

Level: (low/med) LOW Date Received: 01/15/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/19/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/20/10

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-08I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51805.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

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 J
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

2/23/10 rr

KEY-URS087 S94

1C

EPA SAMPLE NO.

HIMW-08S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51808.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

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	4	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	2	~~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 J
50-32-8	Benzo(a)pyrene	2	J
193-39-5	Indeno(1,2,3-cd)pyrene	2	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	2	J

(1) Cannot be separated from Diphenylamine

2/23/10

KEY-URS087 S95

1C

EPA SAMPLE NO.

HIMW-08S DUP

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51809.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

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	5	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	2	~~J~~ J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	2	J
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 J
50-32-8	Benzo(a)pyrene	2	J
193-39-5	Indeno(1,2,3-cd)pyrene	1	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	2	J

(1) Cannot be separated from Diphenylamine

2/23/10

KEY-URS087 S96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-12D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51745.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/14/10

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 J
207-08-9	Benzo(k)fluoranthene	10	U J
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

2/23/10

KEY-URS087 S87

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51746.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/14/10

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	3	~~U~~ J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	46	
83-32-9	Acenaphthene	39	
86-73-7	Fluorene	27	
85-01-8	Phenanthrene	8	J
120-12-7	Anthracene	1	~~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 J
207-08-9	Benzo(k)fluoranthene	10	U J
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

2/23/10

KEY-URS087 S88

1C

EPA SAMPLE NO.

HIMW-12S

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001198-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51747.D

Level: (low/med) LOW Date Received: 01/08/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/14/10

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 J
207-08-9	Benzo(k)fluoranthene	10	U J
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

1/23/10

KEY-URS087 S89

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51678.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/06/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/11/10

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	6	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 J
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

2/23/10

KEY-URS087 S82

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51679.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/06/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/11/10

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	2	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	56	
83-32-9	Acenaphthene	7	J
86-73-7	Fluorene	10	
85-01-8	Phenanthrene	9	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	UJ
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

2/23/10

KEY-URS087 S83

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51680.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/06/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/11/10

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	13	
83-32-9	Acenaphthene	7	J
86-73-7	Fluorene	3	J
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	UJ
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

2/23/10

KEY-URS087 S84

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51681.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/06/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/11/10

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 J
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

2/23/10

KEY-URS087 S85

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001129-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51682.D

Level: (low/med) LOW Date Received: 01/06/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/06/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/11/10

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	8	J
83-32-9	Acenaphthene	2	J
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	1	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 J
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

2/23/10

KEY-URS087 S86

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-20I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51749.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/14/10

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	15	J
91-57-6	2-Methylnaphthalene	2	J
208-96-8	Acenaphthylene	140 ~~120~~	~~E~~ D
83-32-9	Acenaphthene	9	J
86-73-7	Fluorene	20	
85-01-8	Phenanthrene	31	
120-12-7	Anthracene	4	~~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 J
207-08-9	Benzo(k)fluoranthene	10	U J
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

2/23/10

KEY-URS087 S92

1C

EPA SAMPLE NO.

HIMW-20IDL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001273-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51793.D

Level: (low/med) LOW Date Received: 01/11/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/13/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

Injection Volume: 2 (µL) Dilution Factor: 5.00

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	17	DJ
91-57-6	2-Methylnaphthalene	50	U
208-96-8	Acenaphthylene	140	D
83-32-9	Acenaphthene	11	DJ
86-73-7	Fluorene	21	DJ
85-01-8	Phenanthrene	35	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

2/23/10

KEY-URS087 S93

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-006B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51806.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

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 J
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

2/23/10

KEY-URS087 S97

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-20S DUP

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Matrix: (soil/water) WATER Lab Sample ID: 1001396-007B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51807.D

Level: (low/med) LOW Date Received: 01/13/10

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/10

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/18/10

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	UJ
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

2/23/10
2

KEY-URS087 S98

APPENDIX B

SUPPORT DOCUMENTATION

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 1/6/10, 1/8/10, 1/11/10/ 1/13/10, 1/15/10 & 1/19/10
SDG #: KEY-URS087

For Sample(s):

HIMW-13D	HIMW-12D	TB 011110	TB-01-13-10
HIMW-13I	HIMW-12I	HIMW-08I	HIMW-8D
HIMW-14I	HIMW-12S	HIMW-08S	HIMW-05D
HIMW-15D	TB-010710	HIMW-08S DUP	HIMW-05S
HIMW-15I	HIMW-5I	HIMW-20S	TB-011710
TB-010610	HIMW-20I	HIMW-20S DUP	

The above water sample(s) was/were analyzed for a select list of volatile organic analytes (BTEX) by EPA method 8260B.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis.

Sample HIMW-20I was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPD's were met except for the percent recovery and RPD for benzene in both the matrix spike and the matrix spike duplicate.

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: February 12, 2010

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****
Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLE RECEIVED: 1/6/10, 1/8/10, 1/11/10, 1/13/10, 1/15/10 & 1/19/10
SDG #: KEY-URS087

For Sample(s):

HIMW-13D	HIMW-12I	HIMW-08S DUP
HIMW-13I	HIMW-12S	HIMW-20S
HIMW-14I	HIMW-5I	HIMW-20S DUP
HIMW-15D	HIMW-20I	HIMW-8D
HIMW-15I	HIMW-08I	HIMW-05D
HIMW-12D	HIMW-08S	HIMW-05S

The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

Sample HIMW-20I was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPDs were within Q. C. limits.

Samples HIMW-5I, HIMW-20I and HIMW-05D were reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.

Matrix interference caused low area counts for the internal standard naphthalene-d8 in samples HIMW-5I and HIMW-05D. All internal area counts were acceptable in the dilution of these samples.

The surrogate compound nitrobenzene-d5 recovered high in sample HIMW-5I. No surrogate recoveries are reportable in the dilution of this sample, as well as sample HIMW-05D, as the compounds were diluted out below reportable levels.

In the initial calibration, the %RSD exceeded 15% for the following analytes:

- naphthalene 18.4%
- anthracene 15.1%
- Benzo(a)anthracene 15.9% - this compound was not detected in any samples.
- Benzo(k)fluoranthene 28.9% -this compound was not detected in any samples.

The %D exceeded 15% for several analytes in the continuous calibration verifications (CCVs) as follows:

CCV 1/11/10: Benzo(k)fluoranthene
CCV1/14/10:Benzo(b)fluoranthene,Benzo(k)fluoranthene,Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene
CCV 1/18/10: Benzo(k)fluoranthene
CCV 1/20/10: Benzo(b)fluoranthene
CCV 1/21/10: Benzo(k)fluoranthene

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLE RECEIVED: 1/6/10, 1/8/10, 1/11/10, 1/13/10, 1/15/10 & 1/19/10
SDG #: KEY-URS087

These compounds were not detected in any samples. Five laboratory fortified blanks were analyzed and all recoveries were within acceptance limits.

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: February 2, 2010

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* *
* Nicole R. Crespi *
****
Nicole R. Crespi
Quality Assurance Manager

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Lab File ID: A\C51674.D DFTPP Injection Date: 01/11/10

Instrument ID: HP5972 DFTPP Injection Time: 13:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.6
68	Less than 2% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.3
70	Less than 2% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.7
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1% of mass 198	1.5
441	Present, but less than mass 443	0.2
442	40.0 - 110.0% of mass 198	59.1
443	17.0 - 23.0% of mass 442	11.2 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	A\C51675.D	01/11/10	13:16
02	LFB-34512	LFB-34512	A\C51677.D	01/11/10	14:22
03	HIMW-13D	1001129-001B	A\C51678.D	01/11/10	14:55
04	HIMW-13I	1001129-002B	A\C51679.D	01/11/10	15:28
05	HIMW-14I	1001129-003B	A\C51680.D	01/11/10	16:01
06	HIMW-15D	1001129-004B	A\C51681.D	01/11/10	16:34
07	HIMW-15I	1001129-005B	A\C51682.D	01/11/10	17:06
08	MB-34512	MB-34512	A\C51683.D	01/11/10	17:39

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Lab File ID: A\C51741.D DFTPP Injection Date: 01/14/10

Instrument ID: HP5972 DFTPP Injection Time: 11:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.0
68	Less than 2% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.0
70	Less than 2% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.4
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	20.9
365	Greater than 1% of mass 198	1.4
441	Present, but less than mass 443	0.2
442	40.0 - 110.0% of mass 198	54.4
443	17.0 - 23.0% of mass 442	10.8 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	A\C51742.D	01/14/10	11:45
02	MB-34642	MB-34642	A\C51743.D	01/14/10	12:18
03	LFB-34642	LFB-34642	A\C51744.D	01/14/10	12:51
04	HIMW-12D	1001198-001B	A\C51745.D	01/14/10	13:24
05	HIMW-12I	1001198-002B	A\C51746.D	01/14/10	13:57
06	HIMW-12S	1001198-003B	A\C51747.D	01/14/10	14:30
07	HIMW-5I	1001273-001B	A\C51748.D	01/14/10	15:03
08	HIMW-20I	1001273-002B	A\C51749.D	01/14/10	15:35
09	HIMW-20IMS	1001273-002BMS	A\C51750.D	01/14/10	16:08
10	HIMW-20IMSD	1001273-002BMSD	A\C51751.D	01/14/10	16:41

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Lab File ID: A\C51787.D DFTPP Injection Date: 01/18/10

Instrument ID: HP5972 DFTPP Injection Time: 11:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.1
68	Less than 2% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.2
70	Less than 2% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	43.6
197	Less than 1% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 1% of mass 198	1.2
441	Present, but less than mass 443	0.5
442	40.0 - 110.0% of mass 198	49.3
443	17.0 - 23.0% of mass 442	9.2 (18.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD025	SSTD025	A\C51788.D	01/18/10	11:21
02	HIMW-5IDL	1001273-001BDL	A\C51792.D	01/18/10	13:36
03	HIMW-20IDL	1001273-002BDL	A\C51793.D	01/18/10	14:10
04	MB-34677	MB-34677	A\C51803.D	01/18/10	19:40
05	LFB-34677	LFB-34677	A\C51804.D	01/18/10	20:13
06	HIMW-08I	1001396-003B	A\C51805.D	01/18/10	20:46
07	HIMW-20S	1001396-006B	A\C51806.D	01/18/10	21:18
08	HIMW-20S DUP	1001396-007B	A\C51807.D	01/18/10	21:51
09	HIMW-08S	1001396-004B	A\C51808.D	01/18/10	22:24
10	HIMW-08S DUP	1001396-005B	A\C51809.D	01/18/10	22:56

Form 6

(BNA) IN WATER INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-URS SAS No.: SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Dates: 12/31/2009 12/31/2009

Heated Purge: (Y/N) N Calibration Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C51546.D SSTD010= C51545.D SSTD025= C51540.D SSTD040= C51544.D SSTD060= C51543.D
SSTD080= C51541.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
Benzoic acid	0.2183371	0.2727248	0.2636832	0.2908879	0.2890424	0.2735883					0.268	9.9	
Aniline	1.6792918	1.7647283	1.7481944	1.7856708	1.7524651	1.8548279					1.764	3.2	
Phenol *	1.5228927	1.6226650	1.5530862	2.0501878	2.1450612	2.0999935					1.832	16.1	*
Bis(2-chloroethyl)ether	1.5851595	1.7666103	1.6431535	1.9834499	1.9621928	1.8356064					1.796	9.1	
N-Nitrosodimethylamine	0.7041901	0.8128330	0.7618678	0.8440948	0.848056	0.9039105					0.812	8.7	
2-Chlorophenol	1.4552210	1.6132552	1.558828	1.6954545	1.6839994	1.6868066					1.616	5.9	
1,3-Dichlorobenzene	1.4270715	1.4696405	1.4387796	1.5530562	1.5084489	1.5249756					1.487	3.4	
Benzyl alcohol	0.8531577	0.9135693	0.8831659	1.0025253	1.005428	0.9895277					0.941	7.1	
1,4-Dichlorobenzene *	1.7168433	1.7399575	1.6987025	1.8119658	1.8101763	1.8015107					1.763	2.9	*
1,2-Dichlorobenzene	1.4281974	1.4834247	1.4568606	1.5412911	1.4940355	1.4337097					1.473	2.9	
2-Methylphenol	1.1665752	1.2859196	1.2059444	1.3619529	1.3645332	1.3664415					1.292	6.8	
2,2'-oxybis(1-Chloropropane)	3.4386409	3.6749278	3.4617693	3.6858197	3.520576	3.3017542					3.514	4.2	
4-Methylphenol	1.2420161	1.3098002	1.2818374	1.4472611	1.5347138	1.4886008					1.384	8.8	
N-Nitroso-di-n-propylamine *	0.8519754	0.8962246	0.8448873	0.9043836	0.8531939	0.7877524					0.856	4.9	*
Hexachloroethane	0.5749272	0.6290612	0.6142925	0.6618363	0.6442733	0.5769770					0.617	5.7	
Nitrobenzene	0.2914796	0.3067753	0.2598607	0.2756359	0.2550182	0.2366180					0.271	9.5	
Isophorone	0.6726134	0.6799703	0.5942742	0.6338641	0.5942364	0.7884161					0.661	11.0	
2-Nitrophenol *	0.2229603	0.2329815	0.2069644	0.2195012	0.2097138	0.1972869					0.215	5.9	*
2,4-Dimethylphenol	0.3146266	0.3201436	0.2777401	0.2845755	0.2690622	0.2469553					0.286	9.7	
Bis(2-chloroethoxy)methane	0.4865622	0.5390200	0.4771689	0.4735743	0.4384817	0.4007343					0.469	9.9	
2,4-Dichlorophenol *	0.2774563	0.2873121	0.2579360	0.2576917	0.2448195	0.2277942					0.259	8.3	*
1,2,4-Trichlorobenzene	0.3139508	0.3126825	0.2736159	0.2730520	0.2536112	0.2284225					0.276	12.1	
Naphthalene *	1.067448	1.0752605	0.9295099	0.8633800	0.7680666	0.6617198					0.894	18.4	

KEY-URS087 B140

Form 6

(BNA) IN WATER INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-URS SAS No.: SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Dates: 12/31/2009 12/31/2009

Heated Purge: (Y/N) N Calibration Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C51546.D SSTD010= C51545.D SSTD025= C51540.D SSTD040= C51544.D SSTD060= C51543.D
SSTD080= C51541.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
4-Chloroaniline	0.4626166	0.4756677	0.4135844	0.4144568	0.3803395	0.3286289					0.413	13.1	
Hexachlorobutadiene *	0.1638719	0.1632665	0.1432572	0.1357991	0.1237875	0.1076227					0.140	15.9	*
4-Chloro-3-methylphenol *	0.2516060	0.2556728	0.2325156	0.2386897	0.2262742	0.2027188					0.235	8.2	*
2-Methylnaphthalene	0.6272103	0.6349693	0.5534995	0.5516462	0.5055423	0.4614515					0.556	12.2	
Hexachlorocyclopentadiene *	0.3162648	0.3576189	0.2020383	0.3132853	0.1896503	0.1807343					0.260	29.9	*
2,4,6-Trichlorophenol *	0.3729847	0.4083355	0.3845386	0.4083278	0.4109901	0.3994329					0.397	3.9	*
2,4,5-Trichlorophenol	0	0.4385423	0.4094445	0.4559032	0.4457711	0.4305161					0.436	4.0	
2-Chloronaphthalene	1.3371916	1.3894705	1.2514338	1.2075447	1.1355749	1.0428178					1.227	10.4	
2-Nitroaniline	0	0.3494665	0.3314338	0.3587596	0.3644170	0.3545087					0.352	3.6	
Dimethylphthalate	1.3528223	1.4327069	1.5038715	1.5470685	1.5180637	1.4520655					1.468	4.8	
Acenaphthylene	1.8689484	1.9581939	1.8335731	1.92176	1.9037032	1.731624					1.870	4.3	
2,6-Dinitrotoluene	0.3445624	0.3814468	0.3579434	0.390085	0.3957701	0.3866039					0.376	5.4	
3-Nitroaniline	0	0.4103807	0.4137965	0.4562878	0.4558613	0.4230082					0.432	5.2	
Acenaphthene *	1.1335866	1.1911811	1.1074032	1.1584379	1.1324781	1.0392318					1.127	4.6	*
2,4-Dinitrophenol *	0	0.2035241	0.2289702	0.2728735	0.2885591	0.2931931					0.257	15.3	*
4-Nitrophenol *	0	0.1344146	0.1424698	0.1837465	0.1916914	0.1879082					0.168	16.3	*
Dibenzofuran	1.5631664	1.6580995	1.5443060	1.5805999	1.5677659	1.4806494					1.566	3.7	
2,4-Dinitrotoluene	0.4409363	0.4758431	0.4564468	0.4899451	0.4896836	0.4640929					0.469	4.1	
Diethylphthalate	1.358719	1.4367831	1.3417108	1.4078418	1.3628956	1.2074632					1.353	5.9	
4-Chlorophenyl-phenylether	0.5802401	0.6196545	0.5696220	0.570622	0.5394612	0.4687478					0.558	9.1	
Fluorene	1.2413481	1.3157842	1.2109748	1.1936475	1.1070305	0.9489826					1.170	10.9	
4-Nitroaniline	0	0.4096513	0.4087957	0.4508094	0.4625934	0.4552487					0.437	6.0	
4,6-Dinitro-2-methylphenol	0	0.2140917	0.2133549	0.2368682	0.2314659	0.1992441					0.219	6.9	

Form 6

(BNA) IN WATER INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-URS SAS No.: SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Dates: 12/31/2009 12/31/2009

Heated Purge: (Y/N) N Calibration Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C51546.D SSTD010= C51545.D SSTD025= C51540.D SSTD040= C51544.D SSTD060= C51543.D
SSTD080= C51541.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
N-Nitrosodiphenylamine *	0.7541156	0.8000142	0.7492154	0.7479464	0.7093829	0.6467449					0.735	7.0	*
1,2-Diphenylhydrazine	0.8857504	0.9204554	0.939424	0.9880284	0.9821554	0.9410886					0.943	4.1	
4-Bromophenyl-phenylether	0.2375487	0.2660386	0.2386336	0.2261970	0.2087700	0.1898796					0.228	11.6	
Hexachlorobenzene	0.2851683	0.2893878	0.2565974	0.2499764	0.2359094	0.2258918					0.257	10.0	
Pentachlorophenol *	0	0.1841743	0.1837983	0.1849094	0.1845323	0.1860409					0.185	0.5	*
Phenanthrene	1.1516995	1.2279337	1.1038863	1.0805874	1.0372175	1.0034658					1.101	7.3	
Anthracene	1.2132887	1.2512931	1.0974803	0.9844598	0.9161227	0.8613277					1.054	15.1	
Carbazole	1.061688	1.1791136	1.1130670	1.1174526	1.0800046	1.0299448					1.097	4.7	
Benzidine	0.3391217	0.4131877	0.4068472	0.3136484	0.2899763	0.2778721					0.340	17.1	
Di-n-butyl phthalate	1.6540992	1.7838880	1.6350057	1.6295657	1.5376599	1.4215709					1.610	7.6	
Fluoranthene *	1.1373126	1.2014070	1.0777337	1.0476432	1.004499	0.9440631					1.069	8.6	*
Pyrene	1.3245079	1.3824091	1.3399085	1.3137916	1.2505083	1.1773543					1.298	5.6	
Butyl benzyl phthalate	0.8415413	0.8503549	0.7676241	0.6943983	0.5853590	0.5249241					0.711	18.9	
3,3'-Dichlorobenzidine	0.3404974	0.3342059	0.3768331	0.3089863	0.2534310	0.1890541					0.301	22.7	
Benzo(a)anthracene	1.1916203	1.2095164	1.0396766	0.9325223	0.864632	0.8393741					1.013	15.9	
Chrysene	1.1380887	1.2047693	1.1012709	1.0416244	0.9946005	0.8996553					1.063	10.2	
Bis(2-ethylhexyl)phthalate	1.1140985	1.1455413	0.9528984	0.7850670	0.6553331	0.5648311					0.870	27.6	
Octachlorocyclopentene	0.2095329	0.2064418	0.1796603	0.175118	0.1532050	0.1403746					0.177	15.6	
Di-n-octyl phthalate *	2.1113955	2.2436310	2.1690050	2.0071174	1.9511808	1.7552174					2.040	8.6	*
Benzo(b)fluoranthene	1.3806858	1.2632923	1.3740211	1.1328628	1.1462062	1.1814507					1.246	8.9	
Benzo(k)fluoranthene	1.1452194	1.3314684	1.0023886	0.9392125	0.7905275	0.537382					0.958	28.9	
Benzo(a)pyrene *	1.1402368	1.2396181	1.2096283	1.1745819	1.1245182	1.0459495					1.156	5.9	*
Indeno(1,2,3-cd)pyrene	1.2004654	1.2785986	1.2762249	1.2029890	1.144152	1.0680637					1.195	6.7	

Form 6

(BNA) IN WATER INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: KEY-URS SAS No.: SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Dates: 12/31/2009 12/31/2009

Heated Purge: (Y/N) N Calibration Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C51546.D SSTD010= C51545.D SSTD025= C51540.D SSTD040= C51544.D SSTD060= C51543.D
SSTD080= C51541.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
Dibenzo(a,h)anthracene*	0.9503525	1.0226053	1.0235789	0.9851895	0.9607524	0.919715					0.977	4.2	
Benzo(g,h,i)perylene*	1.0219697	1.0971458	1.1139477	1.0492495	1.0163594	0.9493					1.041	5.7	
2-Fluorophenol	1.3032696	1.3454814	1.3903459	1.4507058	1.5610705	1.5862643					1.440	8.0	
Nitrobenzene-d5	0.3276208	0.2701664	0.2774678	0.2792444	0.2630311	0.233002					0.275	11.2	
Phenol-d5	1.5452997	1.6258695	1.6580709	1.7405918	1.8403708	1.8369513					1.708	7.0	
2,4,6-Tribromophenol	0.1989876	0.210847	0.2044070	0.193249	0.1923377	0.1799444					0.197	5.5	
2-Fluorobiphenyl	1.2741383	1.1139049	1.1846549	1.2017760	1.2065991	1.1046345					1.181	5.4	
4-Terphenyl-d14	0.9054268	0.8146628	0.8087072	0.7063042	0.6689941	0.5917715					0.749	15.3	
2-Chlorophenol-d4	1.4999789	1.5662568	1.5904866	1.6187451	1.6967355	1.7236722					1.616	5.2	
1,2-Dichlorobenzene-d4	0.9328210	0.7870195	0.9089927	0.9442049	0.9334194	0.8446755					0.892	7.0	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Date: 1/11/201 Time: 13:16

Lab File ID: A\C51675.D Init. Calib. Date(s): 12/31/09 12/31/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.894	0.928		3.8	
2-Methylnaphthalene	0.556	0.559		0.6	
Acenaphthylene	1.870	1.840		-1.6	
Acenaphthene	1.127	1.153		2.3	20.0
Fluorene	1.170	1.259		7.6	
Phenanthrene	1.101	1.091		-0.9	
Anthracene	1.054	1.157		9.8	
Fluoranthene	1.069	1.110		3.9	20.0
Pyrene	1.298	1.222		-5.9	
Benzo(a)anthracene	1.013	1.101		8.7	
Chrysene	1.063	1.065		0.2	
Benzo(b)fluoranthene	1.246	1.417		13.7	
Benzo(k)fluoranthene	0.958	1.175		22.7	
Benzo(a)pyrene	1.156	1.202		4.0	20.0
Indeno(1,2,3-cd)pyrene	1.195	1.325		10.9	
Dibenzo(a,h)anthracene	0.977	1.077		10.2	
Benzo(g,h,i)perylene	1.041	1.104		6.0	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Date: 1/14/201 Time: 11:45

Lab File ID: A\C51742.D Init. Calib. Date(s): 12/31/09 12/31/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.894	0.917		2.5	
2-Methylnaphthalene	0.556	0.554		-0.3	
Acenaphthylene	1.870	1.818		-2.8	
Acenaphthene	1.127	1.141		1.2	20.0
Fluorene	1.170	1.230		5.2	
Phenanthrene	1.101	1.087		-1.3	
Anthracene	1.054	1.176		11.6	
Fluoranthene	1.069	1.141		6.8	20.0
Pyrene	1.298	1.233		-5.0	
Benzo(a)anthracene	1.013	1.130		11.6	
Chrysene	1.063	1.036		-2.6	
Benzo(b)fluoranthene	1.246	1.525		22.4	
Benzo(k)fluoranthene	0.958	1.255		31.0	
Benzo(a)pyrene	1.156	1.240		7.3	20.0
Indeno(1,2,3-cd)pyrene	1.195	1.013		-15.2	
Dibenzo(a,h)anthracene	0.977	0.835		-14.5	
Benzo(g,h,i)perylene	1.041	0.747		-28.3	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS087

Instrument ID: HP5972 Calibration Date: 1/18/201 Time: 11:21

Lab File ID: A\C51788.D Init. Calib. Date(s): 12/31/09 12/31/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 8:57 12:14

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.894	0.934		4.4	
2-Methylnaphthalene	0.556	0.553		-0.5	
Acenaphthylene	1.870	1.852		-0.9	
Acenaphthene	1.127	1.152		2.2	20.0
Fluorene	1.170	1.232		5.3	
Phenanthrene	1.101	1.109		0.7	
Anthracene	1.054	1.186		12.5	
Fluoranthene	1.069	1.119		4.7	20.0
Pyrene	1.298	1.261		-2.9	
Benzo(a)anthracene	1.013	1.095		8.1	
Chrysene	1.063	1.052		-1.1	
Benzo(b)fluoranthene	1.246	1.376		10.4	
Benzo(k)fluoranthene	0.958	1.268		32.4	
Benzo(a)pyrene	1.156	1.265		9.5	20.0
Indeno(1,2,3-cd)pyrene	1.195	1.336		11.8	
Dibenzo(a,h)anthracene	0.977	1.101		12.7	
Benzo(g,h,i)perylene	1.041	1.113		6.9	

All other compounds must meet a minimum RRF of 0.010.

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

31292

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: KEY-URS 087

PROJECT NAME/NUMBER
National Grid
Hempstead, NY
111760 98.00004

SAMPLERS: (signature)/Client
/ DAVID SWAIN
Megan Dascoli / Megan Dascoli

DELIVERABLES:

TURNAROUND TIME:
Standard for BTEX, PAH

NOTES:

Project Contact: Kevin Lunare

Phone Number: (716) 861-7661

PIS/Quote #

Sample Container Description → BTEX, PAH

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:
1/5/10	1040	GW	HIMW-15D	4	X	X				1001129-004	
1/5/10	1255	GW	HIMW-15I	4	X	X				-005	
1/5/10	1500	GW	HIMW-14I	4	X	X				-003	
1/6/10	1025	GW	HIMW-13I	4	X	X				-002	
1/6/10	1220	GW	HIMW-13D	4	X	X				-001	
1/6/10	1220	GW	TB010610	2	X					-006	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Megan Dascoli	1/6/10	1310	[signature]	1-6-10	13:10
[signature]	1-6-10	2:20	[signature]	1-6-10	14:20

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 3.3°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

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel:(631) 694-3040 Fax: (631) 420-8436

31295

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS Corp. **H2M SDG NO:** KEY-URS087

PROJECT NAME/NUMBER: National Grid, Hempstead, NY, 11176098.00004

SAMPLERS: (signature)/Client: Megan Dascoli/Megan Dascoli

DELIVERABLES: ~~BTEX+~~

TURNAROUND TIME: BTEX+PAH - standard

NOTES:

Project Contact: Kevin Connare

Phone Number: (716)861-7661

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA (BTEX)	ORGANIC: BNA (PAH)	ORGANIC: Pest/PCB (cyanide)	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
1/6/10	1450	GW	H1MW-12D		X	X				1001198-001	
1/7/10	1245	GW	H1MW-12I		X	X	X			-002	
1/7/10	1405	GW	H1MW-12S		X	X				-003	
	↑ ON BOTTLE MCW 1/8/10										
1/7/10	—		TB-010710		X					-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1/8/10	12:30		1-8-10	12:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1-8-10	1:30		1-8-10	13:50
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 ✓ Airbill# ___
2. Ambient or (Chilled) Temp ___
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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YELLOW COPY - CLIENT
PINK COPY - LABORATORY

KEY-URS087 A13

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel:(631) 694-3040 Fax: (631) 420-8436

31294

EXTERNAL CHAIN OF CUSTODY

CLIENT: | **H2M SDG NO:** KEY-URS 087

PROJECT NAME/NUMBER: National Grid, Hempstead, NY, 11176098.00004

SAMPLERS: (signature)/Client: / DAVID SWANN; Megan Driscoll / Megan Driscoli

DELIVERABLES:

TURNAROUND TIME: Standard

NOTES:

Project Contact: Kevin Connare

Phone Number: (716)861-7661

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC BTEX	ORGANIC PAH	ORGANIC Total Cyanide	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
1/8/10	1350	GW	H1MW-20I	5	X	X	X					1001273 - 002 ABC	
1/8/10	1415 1350	GW	MS/MSD H1MW-20I	10	X	X	X					- ↓	
1/10/10	10:00	GW	H1MW-5I	4	X	X						- 001 A-B	
1/11/10	10:00	GW	TB 011110	2	X							- 003 A	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
(URS)	1/11/10	14:10	S. Wood	1-11-10	14.50
S. Wood	1-11-10	16.07		1/11/10	1607

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 1.9
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-URS087 A2T

H2M LABS, INC.

Sample Receipt Checklist KEY-URS 087

Client Name KEY-URS

Date and Time Received: 1/11/2010 4:07:00 PM

Work Order Number 1001273

Received by EM

Checklist completed by _____ Signature 1/11/10 Date

Reviewed by JS Initials 1/12/10 Date

Matrix: Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
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 ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 1/12/10 Person contacted MEGAN DASCOLI

Contacted by: JEN ARACRI Regarding:

Comments: Parent and MS/MSD for sample H1MW-20I do not have matching collection times.

Corrective Action AS PER MEGAN DASCOLI USE PARENT SAMPLE TIME FOR MS/MSD.

KEY-URS087 A22

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

22340

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS Corp.

H2M SDG NO: KEY-URS 087

PROJECT NAME/NUMBER
National Grid
Hempstead, NY
11176098

SAMPLERS: (signature)/Client
John Crespo
Vivian Bermudez

DELIVERABLES:

TURNAROUND TIME: Standard

NOTES:

Project Contact: Kevin Gonnare

Phone Number: (716) 861-7661

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: BTEX	PAH	Total Cyanide	ORGANIC: VOA	BNA	Pest/PCB	INORG.: Metal	CN	LAB I.D. NO.	REMARKS:
1/12/10	11:33	GW	HIMW-DBS	5	X	X	X				-004		1001396 - ~~006~~ ~~006~~	
1/12/10	15:05	GW	HIMW-DBI	4	X	X					-003		(MOW 1/11/10) ~~004~~ ~~005~~	
1/12/10	11:33	GW	HIMW-DBS DUP	5	X	X	X				-005		~~006~~ ~~007~~	Duplicate Sample
1/13/10	9:53	GW	HIMW-01S	1			X				-001		~~001~~	
1/13/10	12:28	GW	HIMW-04S	1			X				-002		~~004~~	
1/13/10	15:21	GW	HIMW-2DS	5	X	X	X				-006		~~002~~	
1/13/10	15:21	GW	HIMW-2DS DUP	5	X	X	X				-007		~~003~~	Duplicate sample
1/13/10			TB								-008		~~008~~	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vivian Bermudez	1/13/10	15:45		1/13/10	15:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1/13/10	4:25		1-13-10	16:25
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___ Airbill# _____
2. Ambient or chilled, Temp._____
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-URS087 A29

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

22341

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: KEY-URS 087/088

PROJECT NAME/NUMBER: National Grid Heampstead, NY 111 76098

SAMPLERS: (signature)/Client: John Crespo / Vivian Bermudez /

DELIVERABLES:

TURNAROUND TIME: Standard

NOTES:

Project Contact: Kevin Connare

Phone Number: (716) 861-7661

PIS/Quote #

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:
1/15/10	13:26	GW	HIMW-08D	2	X	X				1001462-001	
1/15/10	13:26	GW	HIMW-08D	2	X	X				↓ 001	
1/15/10	7:30		IPR-22	1			X			1001467-003	
1/15/10	9:40		IPR-06	1			X			↓ 002	
1/15/10	10:25		HIMW-07S	1			X			↓ 001	

Sample Container Description: BTEX; TAH; Total Cyanide

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vivian Bermudez	1/15/10	2:00		1/16/10	2:00
	1/15/10	2:45		1/15/10	14:45

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 4.7
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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YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS087 A37

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

27606

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS

H2M SDG NO: KEY-URS087

PROJECT NAME/NUMBER: National Grid 11176098.00004

SAMPLERS: (signature)/Client: [signature] / URS

DELIVERABLES: full Cat B

TURNAROUND TIME: std

NOTES:

Project Contact: Peter Fairbanks 716 923 1121

Phone Number:

PO/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: PEST	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
1/17/10	0900	GW	HIMW-05D	4	✓	✓				100152A-001	
↓	1010	GW	HIMW-05S	5	✓	✓			✓	↓ -002	
1/17/10	—	—	TB011710	2	✓					↓ -003	

Sample Container Description: 40ml amber (HCL); 1L amber (Sodium Thiosulfate); 250ml Plastic (Nitric Acid); Total Containers

ANALYSIS REQUESTED

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/18/10	1450	Fed Ex	1/18/10	1450
Fed-Ex	1/19/10	10:15	M Watt	1-19-10	10:15

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were: Shipped or Hand Delivered Airbill# 870513681071
1. Shipped ___ or Hand Delivered ___ Airbill# ___
2. Ambient or chilled, Temp 2°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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YELLOW COPY - CLIENT

PINK COPY - LABORATORY

KEY-URS087 A45