

**Groundwater Sampling and
NAPL Monitoring/Recovery Report
for the First Quarter of 2009
(January - March 2009)
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

**GROUNDWATER SAMPLING AND NAPL MONITORING/RECOVERY
REPORT FOR THE FIRST QUARTER OF 2009 (JANUARY- MARCH)**

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

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June 2009

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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 2009.

Groundwater monitoring and sampling was conducted on January 9 to 20, 2009. This included measuring the depth to groundwater and NAPL thickness in 64 wells. Groundwater samples were collected from 21 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 3,500 feet south of the site boundary.
- DNAPL was detected in 24 wells during the first quarter of 2009. 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 3 to 14 gallons per event. Approximately 46 gallons of NAPL were recovered during the first quarter of 2009. Approximately 256 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the first quarter 2009 data and the previous data the concentrations of 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 2009:

- Measured the depth to groundwater and NAPL thickness in accessible monitoring wells (January 6 to 8, 2009).
- Collected groundwater samples from 21 monitoring wells for laboratory analysis (January 9 to 20, 2009 and February 4, 2009).
- Recovered NAPL from monitoring wells and piezometers (January 6, January 21, February 2, February 19, March 3, and March 23, 2009).

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

2.0 FIELD ACTIVITIES

The field activities performed by URS are summarized below.

- Measurement of the depth to groundwater and NAPL thickness in 64 monitoring wells.
- Collection of groundwater samples from 21 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 24 wells during 6 events during January to March 2009 (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 250 and 500 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. ± 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 3,500 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 2009, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from 31 µg/L (intermediate well, HIMW-15I) to 70 µg/L (deep well, HIMW-15D). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from “not detected” to 2,374 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 24 wells during the first quarter 2009 (Table 3). Figure 7 illustrates the thickness of DNAPL that was measured on January 8, 2009. Figures 8A – 8Z provide cumulative NAPL recovery and NAPL thickness plots for the period December 2003 to March 2009. 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 46 gallons of NAPL were recovered from 24 wells (Table 3). The volume of NAPL recovered varied from approximately 3 to 14 gallons per event. Approximately 256 gallons of NAPL have been recovered since April 2007.

4.0 SUMMARY

Following is a summary of the first quarter 2009 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 3,500 feet south of the site boundary.
- DNAPL was detected in 24 wells during the first quarter of 2009. 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 3 to 14 gallons per event. Approximately 46 gallons of NAPL were recovered during the first quarter of 2009. Approximately 256 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the first quarter 2009 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 2009**

Well ID	Monitoring & Sampling (Jan. 9-20, 2009)			NAPL Monitoring and Recovery					
	Groundwater Level	NAPL Thickness	Water Quality	March 23, 2009	March 3, 2009	Feb. 19, 2009	Feb. 2, 2009	Jan. 21, 2009	Jan. 6, 2009
HIMW-001S	X	X		X	X		X		X
HIMW-001I	X	X			X	X	X	X	X
HIMW-001D									
HIMW-002S									
HIMW-002I									
HIMW-002D									
HIMW-003S	X		X						
HIMW-003I	X		X						
HIMW-003D	X		X						
HIMW-004S									
HIMW-004I									
HIMW-004D									
HIMW-005S	X		X						
HIMW-005I	X		X						
HIMW-005D	X		X						
HIMW-006S	X	X		X	X	X	X	X	X
HIMW-006I	X	X			X		X		X
HIMW-006D									
HIMW-007S	X	X		X	X	X	X	X	X
HIMW-007I	X	X							
HIMW-007D	X	X							
HIMW-008S	X		X						
HIMW-008I	X		X						
HIMW-008D	X		X						
HIMW-009S									
HIMW-009I									
HIMW-009D									
HIMW-010S									
HIMW-010I									
HIMW-010D									
HIMW-011S	X	X							
HIMW-011I	X	X							
HIMW-011D									
HIMW-012S	X		X						
HIMW-012I	X		X						
HIMW-012D	X		X						
HIMW-013S	X		X						
HIMW-013I	X		X						
HIMW-013D	X		X						
HIMW-014I	X		X						
HIMW-014D	X		X						
HIMW-015I	X		X						
HIMW-015D	X		X						

Table 1

**Hempstead Intersection Street Former MGP Site
Summary of Field Activities for the First Quarter 2009**

Well ID	Monitoring & Sampling (Jan. 9-20, 2009)			NAPL Monitoring and Recovery					
	Groundwater Level	NAPL Thickness	Water Quality	March 23, 2009	March 3, 2009	Feb. 19, 2009	Feb. 2, 2009	Jan. 21, 2009	Jan. 6, 2009
HIMW-016S	X	X		X		X	X	X	X
HIMW-016I	X	X		X		X	X	X	X
HIMW-017S	X	X		X	X	X	X	X	X
HIMW-018S	X	X							X
HIMW-018I	X	X			X				
HIMW-019S	X	X			X				X
HIMW-019I	X	X					X		
HIMW-020S	X		X						
HIMW-020I	X		X						
PZ-02									
PZ-03									
PZ-08	X	X		X	X	X	X		X
IPR-01									
IPR-02	X	X					X		
IPR-03	X								
IPR-04	X								
IPR-05	X								
IPR-06	X	X		X	X			X	X
IPR-07	X								
IPR-08									
IPR-09	X								
IPR-10	X								
IPR-11	X								
IPR-12A	X	X							X
IPR-12B	X								
IPR-13	X								
IPR-14	X								
IPR-15	X	X					X		X
IPR-16	X	X					X		
IPR-17	X	X			X		X		X
IPR-18	X								
IPR-19S	X								
IPR-19D	X								
IPR-20	X	X							X
IPR-21	X	X			X				X
IPR-22	X	X			X	X	X		X
IPR-23	X								
IPR-24	X	X					X		X
IPR-25	X	X		X	X	X	X		X
OSMW-01	X								
OSMW-02	X								
OSMW-03	X								

Notes:

- 1 Field marked with "X" indicates that the activity was performed.
- 2 Blank field indicates that the activity was not performed.
- 3 HIMW-020S and HIMW-020I groundwater level and water quality were performed on 2/4/09.

Table 2
Hempstead Intersection Street Former MGP Site
Groundwater and NAPL Measurements for the First Quarter 2009

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-001S	1/8/2009	71.61	ND	25.40	40.1	40.9	0	0.8	46.21
HIMW-001I	1/6/2009	71.68	ND	25.74	84.9	85.9	0	0.95	45.94
HIMW-001D	NM	71.95	ND	NM	ND	129.1	0	0	NM
HIMW-002S	NM	73.82	ND	NM	ND	42.4	0	0	NM
HIMW-002I	NM	78.87	ND	NM	ND	92.9	0	0	NM
HIMW-002D	NM	74.13	ND	NM	ND	119.0	0	0	NM
HIMW-003S	1/8/2009	65.00	ND	18.98	ND	34.8	0	0	46.02
HIMW-003I	1/8/2009	64.94	ND	19.23	ND	87.1	0	0	45.71
HIMW-003D	1/8/2009	65.26	ND	19.98	ND	145.5	0	0	45.28
HIMW-004S	NM	72.74	ND	NM	ND	41.7	0	0	NM
HIMW-004I	NM	72.78	ND	NM	ND	90.6	0	0	NM
HIMW-004D	NM	72.65	ND	NM	ND	180.5	0	0	NM
HIMW-005S	1/8/2009	67.19	ND	21.71	ND	39.1	0	0	45.48
HIMW-005I	1/8/2009	67.22	ND	22.23	ND	92.3	0	0	44.99
HIMW-005D	1/8/2009	67.22	ND	22.44	ND	139.0	0	0	44.78
HIMW-006S	1/7/2009	68.25	ND	23.05	32.7	36.9	0	4.2	45.20
HIMW-006I	1/8/2009	67.88	ND	22.27	81.6	82.2	0	0.6	45.61
HIMW-006D	NM	67.77	ND	NM	ND	120.0	0	0	NM
HIMW-007S	1/7/2009	70.47	ND	25.26	39.4	40.7	0	1.30	45.21
HIMW-007I	1/8/2009	70.10	ND	24.70	ND	90.6	0	0	45.40
HIMW-007D	1/8/2009	70.40	ND	24.71	ND	117.7	0	0	45.69
HIMW-008S	1/8/2009	65.04	ND	20.03	ND	37.1	0	0	45.01
HIMW-008I	1/8/2009	65.14	ND	20.18	ND	75.1	0	0	44.96
HIMW-008D	1/8/2009	64.93	ND	19.99	ND	114.8	0	0	44.94
HIMW-009S	NM	70.03	ND	NM	ND	39.6	0	0	NM
HIMW-009I	NM	69.93	ND	NM	ND	80.5	0	0	NM
HIMW-009D	NM	69.96	ND	NM	ND	NM	0	0	NM
HIMW-010S	NM	71.60	ND	NM	ND	40.3	0	0	NM
HIMW-010I	NM	71.47	ND	NM	ND	91.8	0	0	NM
HIMW-010D	NM	71.44	ND	NM	ND	136.0	0	0	NM
HIMW-011S	1/8/2009	71.62	ND	25.47	ND	41.6	0	0	46.15
HIMW-011I	1/8/2009	71.43	ND	26.36	ND	94.5	0	0	45.07
HIMW-011D	NM	71.39	ND	NM	ND	123.6	0	0	NM
HIMW-012S	1/8/2009	61.58	ND	17.79	ND	33.5	0	0	43.79
HIMW-012I	1/8/2009	61.59	ND	17.64	ND	75.0	0	0	43.95
HIMW-012D	1/8/2009	61.82	ND	19.77	ND	128.5	0	0	42.05
HIMW-013S	1/8/2009	72.83	ND	31.04	ND	49.2	0	0	41.79
HIMW-013I	1/8/2009	72.60	ND	29.85	ND	82.6	0	0	42.75
HIMW-013D	1/8/2009	72.53	ND	30.83	ND	122.5	0	0	41.70
HIMW-014I	1/8/2009	71.71	ND	30.00	ND	96.9	0	0	41.71
HIMW-014D	1/8/2009	71.59	ND	32.34	ND	152.0	0	0	39.25
HIMW-015I	1/8/2009	64.18	ND	25.36	ND	93.1	0	0	38.82
HIMW-015D	1/8/2009	63.96	ND	25.42	ND	155.0	0	0	38.54
HIMW-016S	1/7/2009	67.45	ND	22.47	28.3	34.4	0	6.10	44.98
HIMW-016I	1/7/2009	67.50	ND	22.55	76.2	82.7	0	6.50	44.95

Table 2
Hempstead Intersection Street Former MGP Site
Groundwater and NAPL Measurements for the First Quarter 2009

Well ID	Date	Elevation of TOR	Depth to LNAPL	Depth to Water	Depth to DNAPL	Well Depth	Thickness of LNAPL	Thickness of DNAPL	Corrected Potentiometric Head ⁽¹⁾
		[ft amsl]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft amsl]
HIMW-017S	1/7/2009	65.96	ND	21.23	34.3	36.7	0	2.45	44.73
HIMW-018S	1/6/2009	69.76	ND	23.95	42.1	42.1	0	0.01	45.81
HIMW-018I	1/8/2009	69.70	ND	23.78	ND	71.2	0	0	45.92
HIMW-019S	1/6/2009	70.95	ND	24.80	39.4	39.4	0	0.01	46.15
HIMW-019I	1/8/2009	71.27	ND	24.87	ND	68.9	0	0	46.40
HIMW-020S	2/4/2009	70.43	ND	25.95	ND	35.0	0	0	44.48
HIMW-020I	2/4/2009	70.30	ND	25.79	ND	73.0	0	0	44.51
PZ-02	NM	72.96	ND	NM	ND	35.3	0	0	NM
PZ-03	NM	64.58	ND	NM	ND	29.5	0	0	NM
PZ-08	1/6/2009	70.51	ND	24.71	31.0	35.5	0	4.53	45.80
IPR-01	1/6/2009	70.30	ND	24.17	ND	41.9	0	0	46.13
IPR-02	1/8/2009	68.84	ND	22.57	ND	70.3	0	0.4	46.27
IPR-03	1/8/2009	69.16	ND	22.98	ND	44.7	0	0	46.18
IPR-04	1/8/2009	69.23	ND	23.18	ND	84.4	0	0	46.05
IPR-05	1/8/2009	70.39	ND	24.38	ND	52.1	0	0.01	46.01
IPR-06	1/6/2009	70.79	ND	24.90	55.2	55.4	0	0.25	45.89
IPR-07	1/8/2009	69.73	ND	24.53	ND	38.0	0	0	45.20
IPR-08	1/6/2009	70.51	ND	24.78	ND	40.3	0	0	45.73
IPR-09	1/8/2009	70.00	ND	24.18	ND	45.0	0	0	45.82
IPR-10	1/8/2009	70.80	ND	24.64	ND	44.8	0	0	46.16
IPR-11	1/8/2009	68.29	ND	22.55	ND	44.6	0	0	45.74
IPR-12A	1/6/2009	70.14	ND	22.46	37.9	38.1	0	0.2	47.68
IPR-12B	1/8/2009	69.56	ND	23.79	ND	45.2	0	0	45.77
IPR-13	1/8/2009	70.77	ND	24.89	ND	44.4	0	0	45.88
IPR-14	1/8/2009	66.93	ND	21.25	ND	44.4	0	0	45.68
IPR-15	1/6/2009	67.93	ND	22.34	44.4	44.4	0	0.01	45.59
IPR-16	1/8/2009	69.49	ND	23.72	ND	49.1	0	0.01	45.77
IPR-17	1/6/2009	70.60	ND	24.94	54.1	54.1	0	0.01	45.66
IPR-18	1/8/2009	66.87	ND	21.30	ND	50.0	0	0	45.57
IPR-19S	1/8/2009	67.68	ND	22.11	ND	45.1	0	0	45.57
IPR-19D	1/8/2009	67.96	ND	22.36	ND	89.9	0	0	45.60
IPR-20	1/6/2009	66.70	ND	21.35	45.1	45.4	0	0.3	45.35
IPR-21	1/6/2009	67.67	ND	22.26	44.0	45.0	0	1.0	45.41
IPR-22	1/6/2009	66.33	ND	21.11	42.9	45.4	0	2.5	45.22
IPR-23	1/8/2009	66.67	ND	21.30	ND	45.4	0	0	45.37
IPR-24	1/6/2009	65.88	ND	20.77	44.3	44.4	0	0.01	45.11
IPR-25	1/6/2009	70.56	ND	24.86	42.9	44.5	0	1.62	45.70
OSMW-01	1/8/2009	71.12	ND	24.92	ND	42.2	0	0	46.20
OSMW-02	1/8/2009	71.59	ND	25.62	ND	45.2	0	0	45.97
OSMW-03	1/8/2009	71.39	ND	25.50	ND	44.7	0	0	45.89

Notes:

- (1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
- Sh 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
- NM Not Measured

**Table 3
NAPL Recovery
First Quarter of 2009
Hempstead Intersection Street Former MGP Site**

Well ID	March 23, 2009			March 3, 2009			February 19, 2009			February 2, 2009			January 21, 2009			January 6, 2009		
	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-001S	0	0.20	0.03	0	0.20	0.03	NI	NI	0	0	0.01	0.00	NI	NI	0	0	trace	0.00
HIMW-001I	NI	NI	0	0	1.40	0.23	0	0.07	0.01	0	0.90	0.15	0	0.60	0.10	0	0.95	0.16
HIMW-006S	0	0.50	0.08	0	3.50	0.57	0	1.10	0.18	0	0.40	0.07	0	3.75	0.61	0	3.35	0.55
HIMW-006I	NI	NI	0	0	1.30	0.21	NI	NI	0	0	0.80	0.13	NI	NI	0	0	trace	0.00
HIMW-007S	0	1.50	0.24	0	0.70	0.11	0	0.50	0.08	0	0.10	0.02	0	1.40	0.23	0	0.90	0.15
HIMW-007I	NI	NI	0	0	0	0	NI	NI	0	NA	NA	0	NI	NI	0	0	0	0
HIMW-007D	NI	NI	0	0	0	0	NI	NI	0	NA	NA	0	NI	NI	0	0	0	0
HIMW-011S	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0
HIMW-011I	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0
HIMW-016S	0	4.50	0.73	0	0	0	0	5.50	0.90	0	5.60	0.91	0	5.00	0.82	0	5.50	0.90
HIMW-016I	0	5.00	0.82	0	0	0	0	6.30	1.03	0	5.60	0.91	0	4.50	0.73	0	4.45	0.73
HIMW-017S	0	2.50	0.41	0	0.90	0.15	0	0.90	0.15	0	1.30	0.21	0	0.90	0.15	0	0.00	0.00
HIMW-018S	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	trace	0.00
HIMW-018I	NI	NI	0	0	0.50	0.08	NI	NI	0	NA	NA	0	NI	NI	0	0	0	0
HIMW-019S	NI	NI	0	0	0.40	0.07	NI	NI	0	0	0	0	NI	NI	0	0	trace	0.00
HIMW-019I	NI	NI	0	0	0	0	NI	NI	0	0	0.04	0.01	NI	NI	0	0	0	0
PZ-08	0	1.00	0.16	0	1.60	0.26	0	1.40	0.23	0	1.50	0.24	NI	NI	0	0	4.53	0.74
IPR-02	NI	NI	0	0	0	0	NI	NI	0	0	0.50	0.73	NI	NI	0	0	0	0
IPR-06	0	0.50	0.73	0	1.80	2.64	0	0.06	0.09	0	0	0.00	0	0.5	0.73	0	0.25	0.37
IPR-12A	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0.20	0.01
IPR-15	NI	NI	0	0	0	0	NI	NI	0	0	0.01	0.01	NI	NI	0	0	trace	0.00
IPR-16	NI	NI	0	0	0	0	NI	NI	0	0	2.10	2.83	NI	NI	0	0	0	0
IPR-17	NI	NI	0	0	0.20	0.27	NI	NI	0	0	0.10	0.13	NI	NI	0	0	trace	0.00
IPR-20	NI	NI	0	0	0	0	NI	NI	0	NA	NA	0	NI	NI	0	0	0.30	0.44
IPR-21	NI	NI	0	0	0.70	1.03	NI	NI	0	0	0	0	NI	NI	0	0	1.00	1.47
IPR-22	NI	NI	0	0	0.60	0.88	0	0.90	1.32	0	3.80	5.58	NI	NI	0	0	2.50	3.67
IPR-24	NI	NI	0	0	0	0	NI	NI	0	0	0.70	1.03	NI	NI	0	0	trace	0.00
IPR-25	0	1.00	1.47	0	0.80	1.18	0	0.50	0.73	0	1.00	1.47	NI	NI	0	0	1.62	2.38
	Volume Removed		4.68	Volume Removed		7.71	Volume Removed		4.72	Volume Removed		14.45	Volume Removed		3.37	Volume Removed		11.55

Total volume recovered during the first quarter 2008: 46.48 gal
Total volume of NAPL recovered since April 2007: 256.4 gal

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 and PZ monitoring wells are 2-inch diameter: Vol = 0.163 gal / lft of well screen.
- All IPR monitoring wells (unless noted) are 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 wells IPR-06 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 2009

Well ID	First Quarter 2009 (January 9-20, 2009) Concentrations	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D	ND	ND
HIMW-003I	13	ND
HIMW-003S	ND	ND
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	48	53
HIMW-005I	189	2,374
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	7	ND
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	1	ND
HIMW-012I	53	100
HIMW-012S	11	ND
HIMW-013D	7	9
HIMW-013I	45	80
HIMW-013S	ND	ND
HIMW-014D	ND	ND
HIMW-014I	101	45
HIMW-015D	70	ND
HIMW-015I	31	18
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I ⁽¹⁾	224	167
HIMW-020S ⁽¹⁾	ND	ND
PZ-02		
PZ-03		
PZ-08		

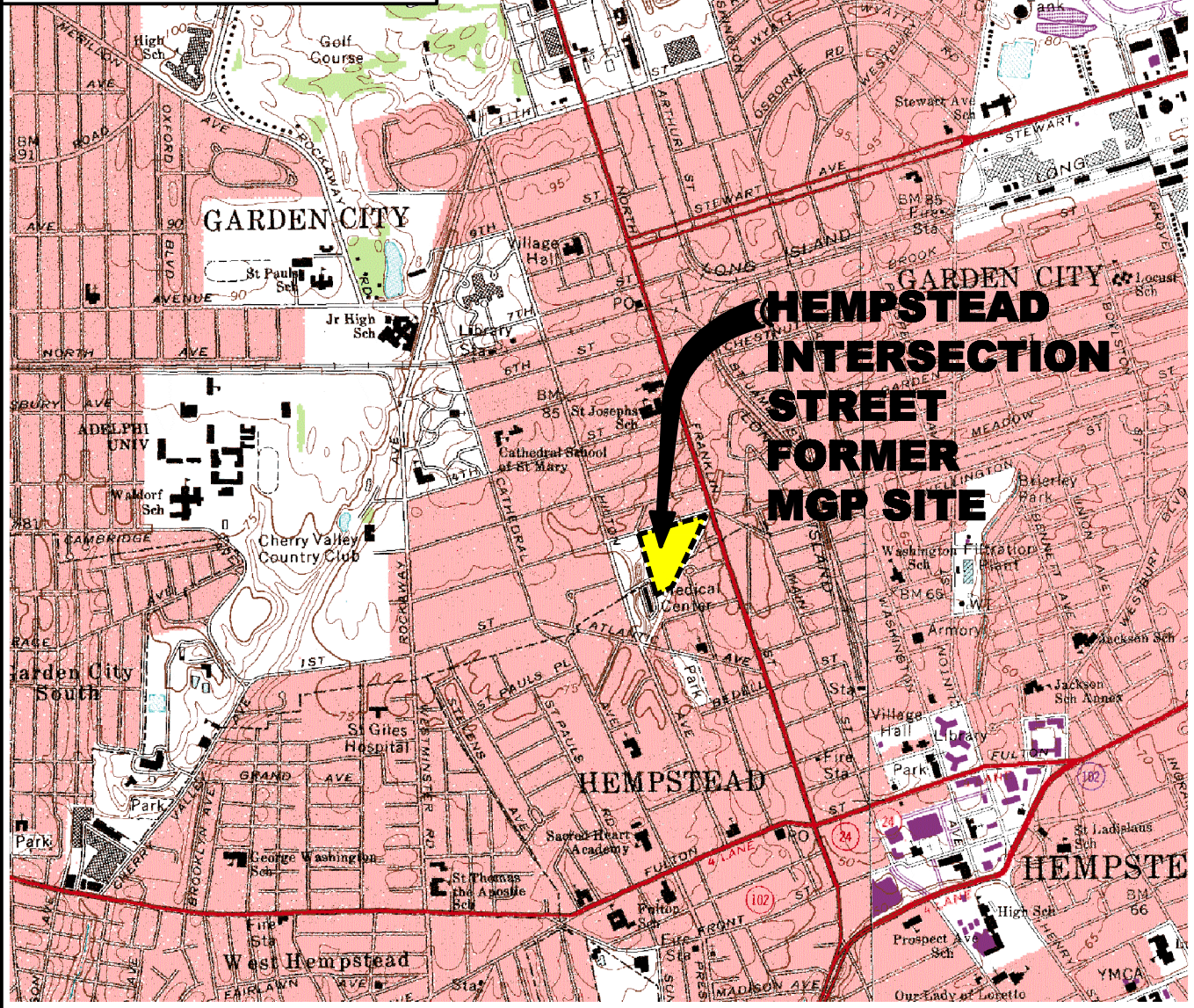
Notes:

-----	A blank field is "Not Sampled".
-----	NAPL is periodically identified in this well.
ND	Not Detected.
ug/L	micrograms per liter
(1)	Sampled 2/4/09

FIGURES

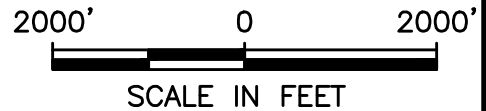


KEY MAP
NEW YORK STATE



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

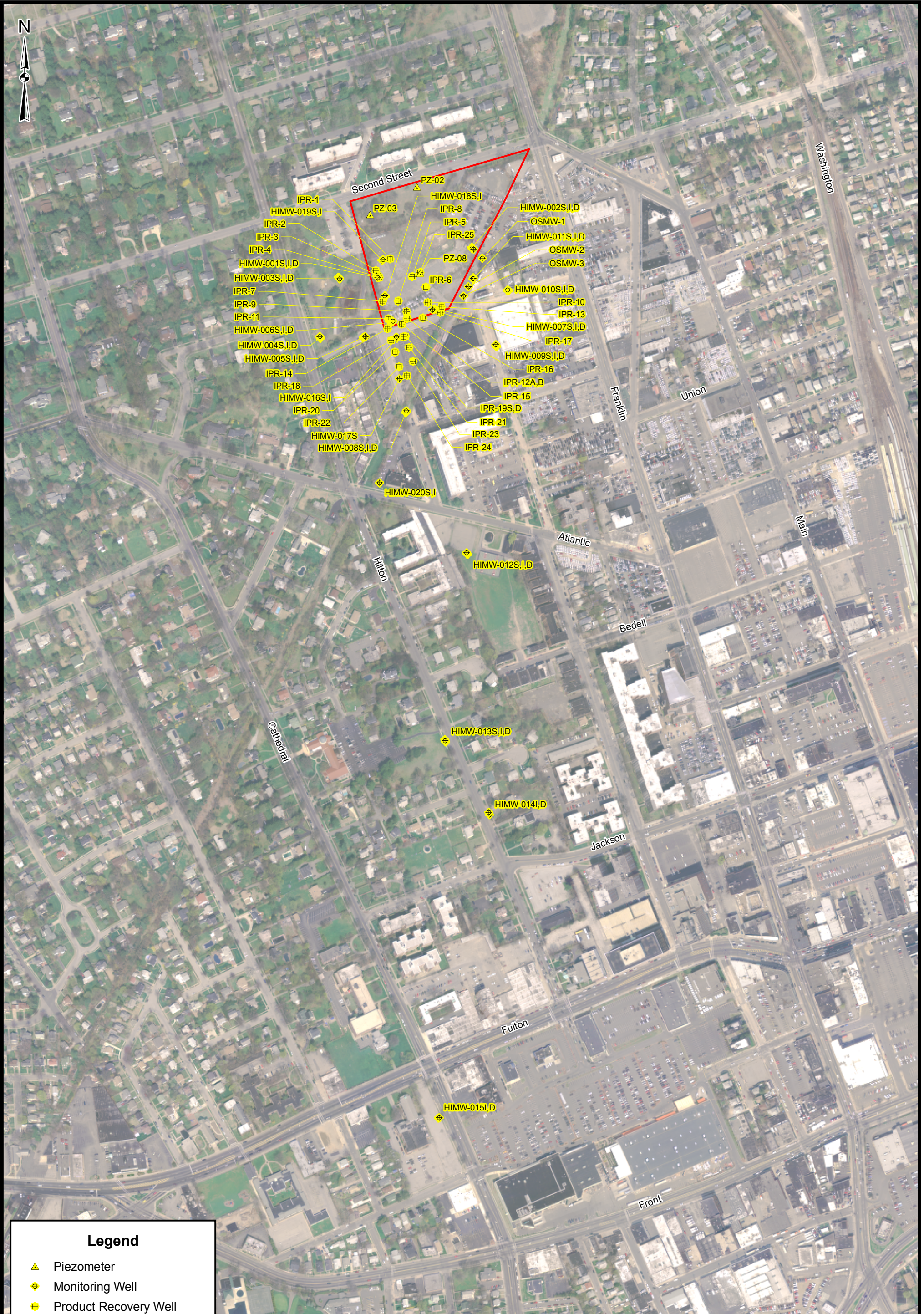
SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUADRANGLES:
FREEPORT, NY (1969)
LYNDBROOK, NY (1969)







URS Corporation

LOCATION MAP

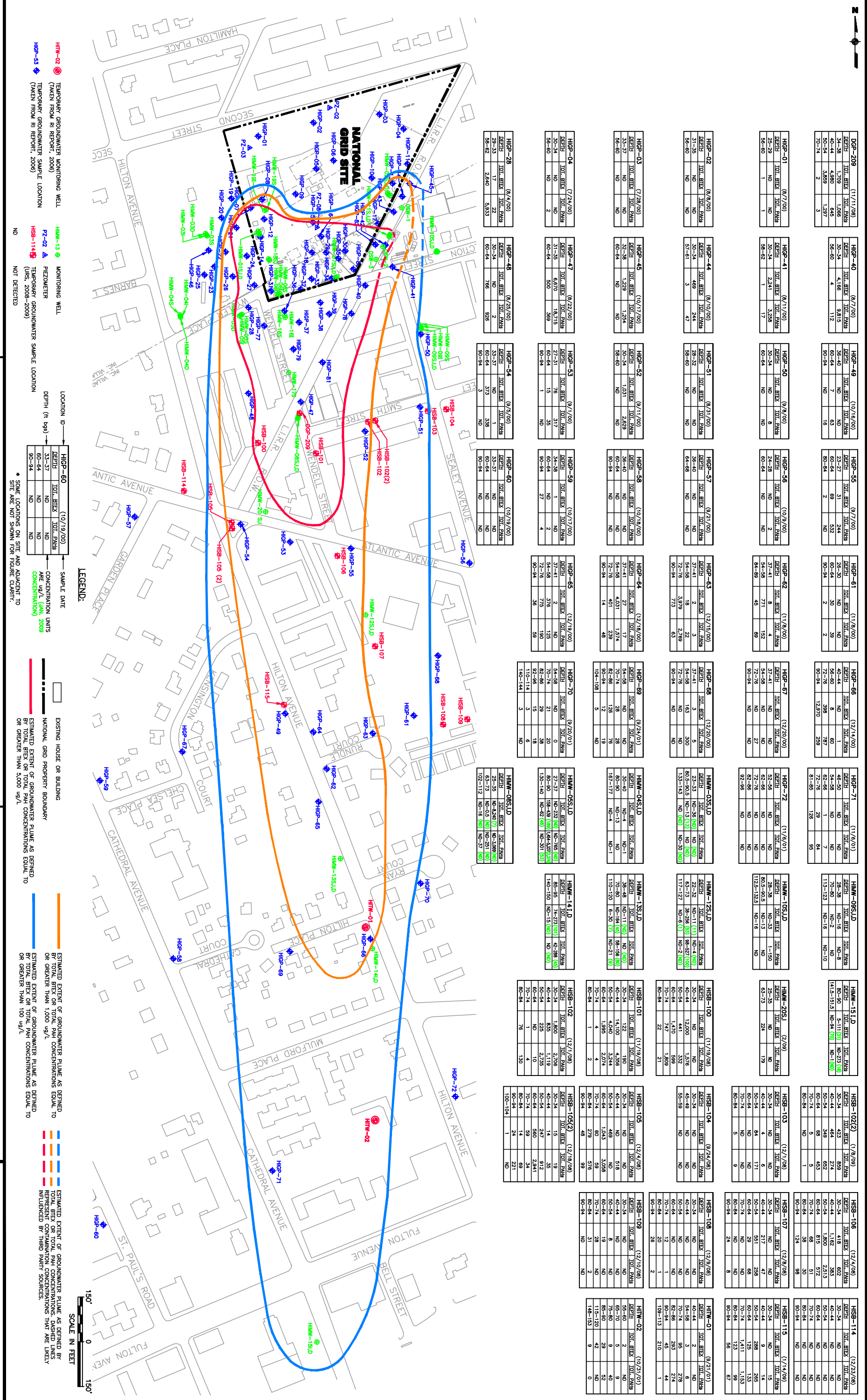
FIGURE 1



Legend

-  Piezometer
-  Monitoring Well
-  Product Recovery Well
-  Former MGP Site Boundary

400 0 400 Feet



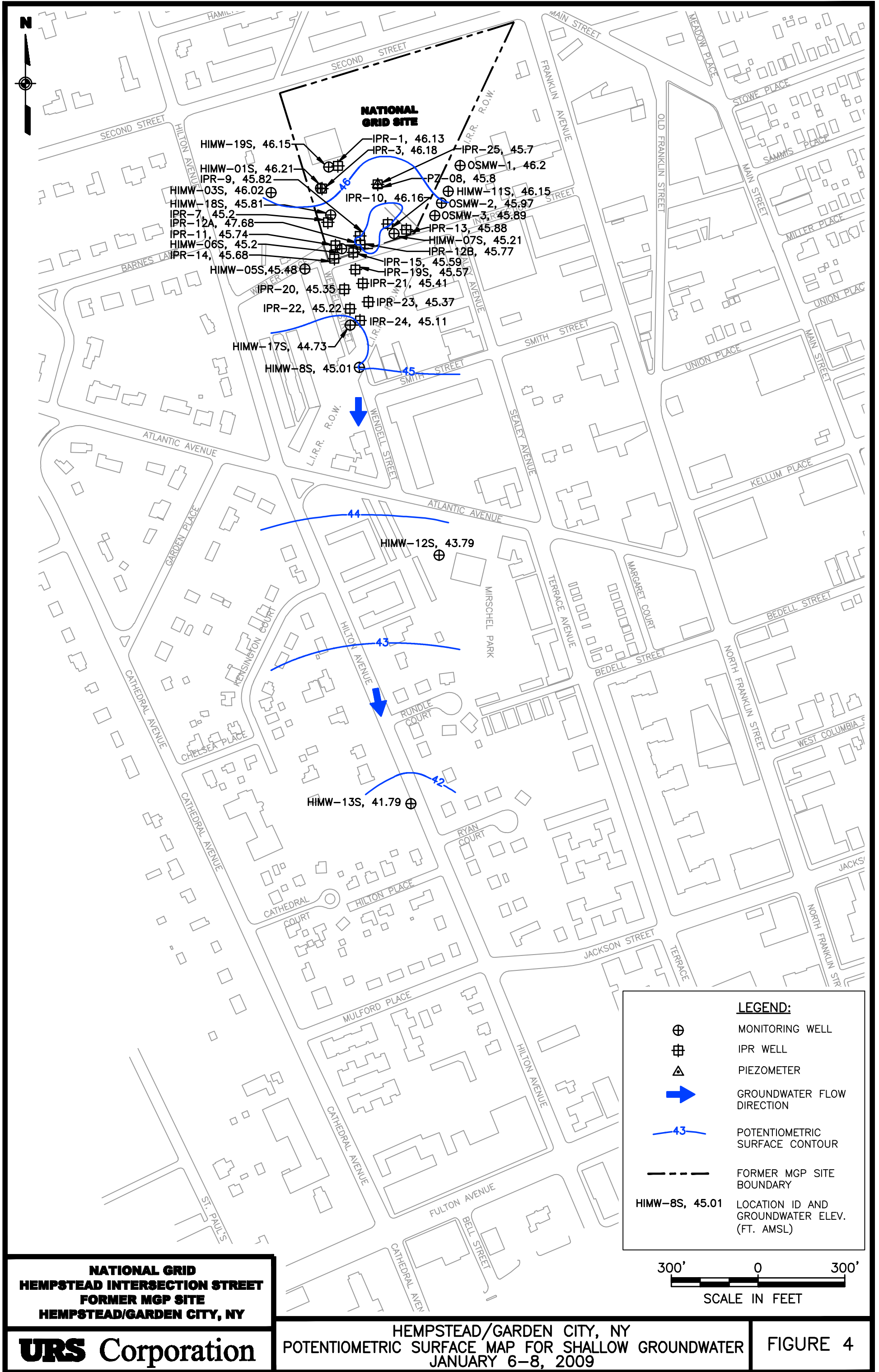
URS Corporation

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

**EXTENT OF DISSOLVED-PHASE
 PLUME AND GROUNDWATER
 ANALYTICAL RESULTS**

FIGURE 3

SCALE IN FEET
 150' 0 150'



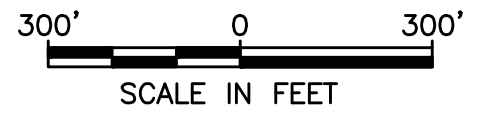
**NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY**

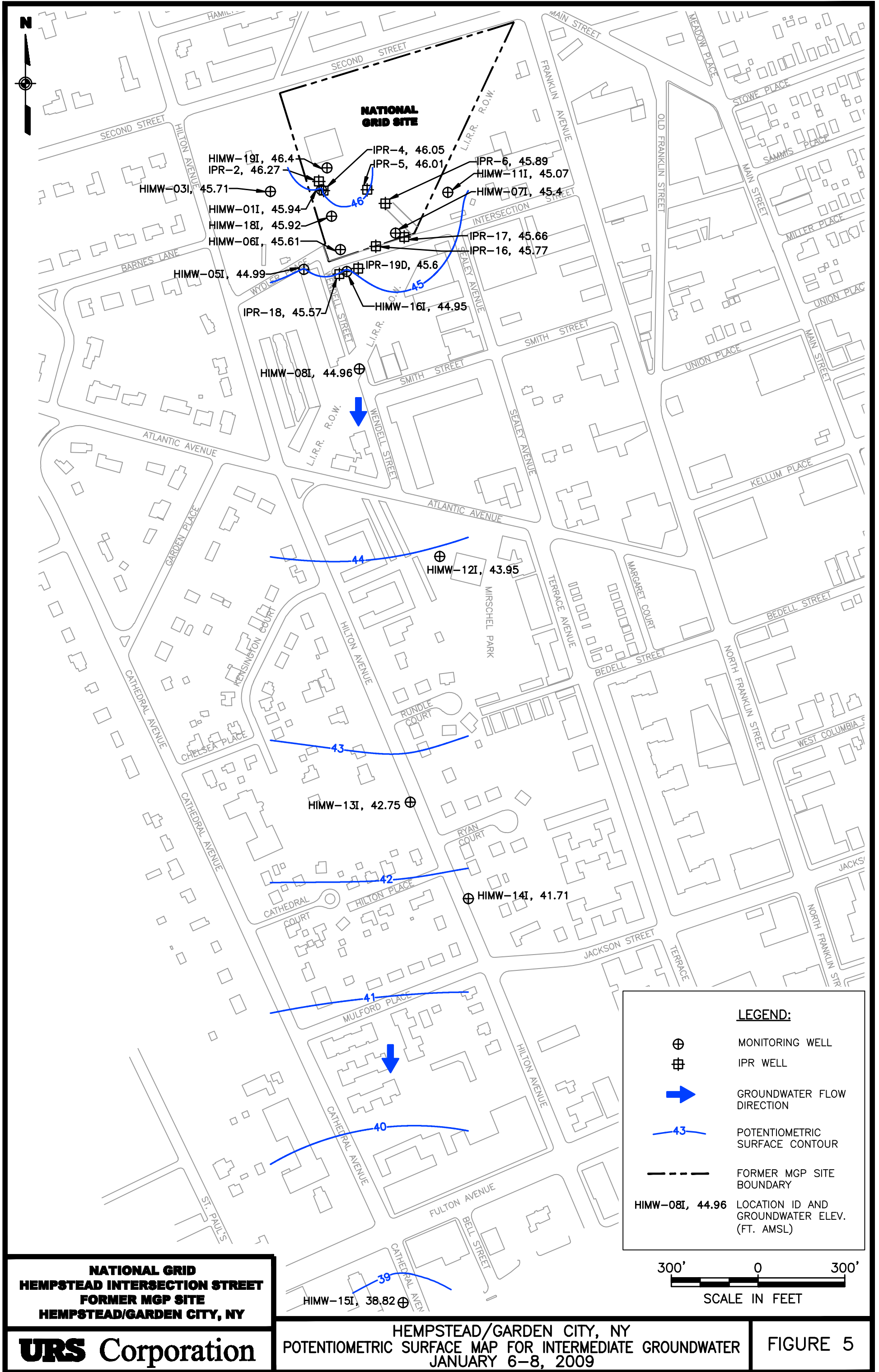
URS Corporation

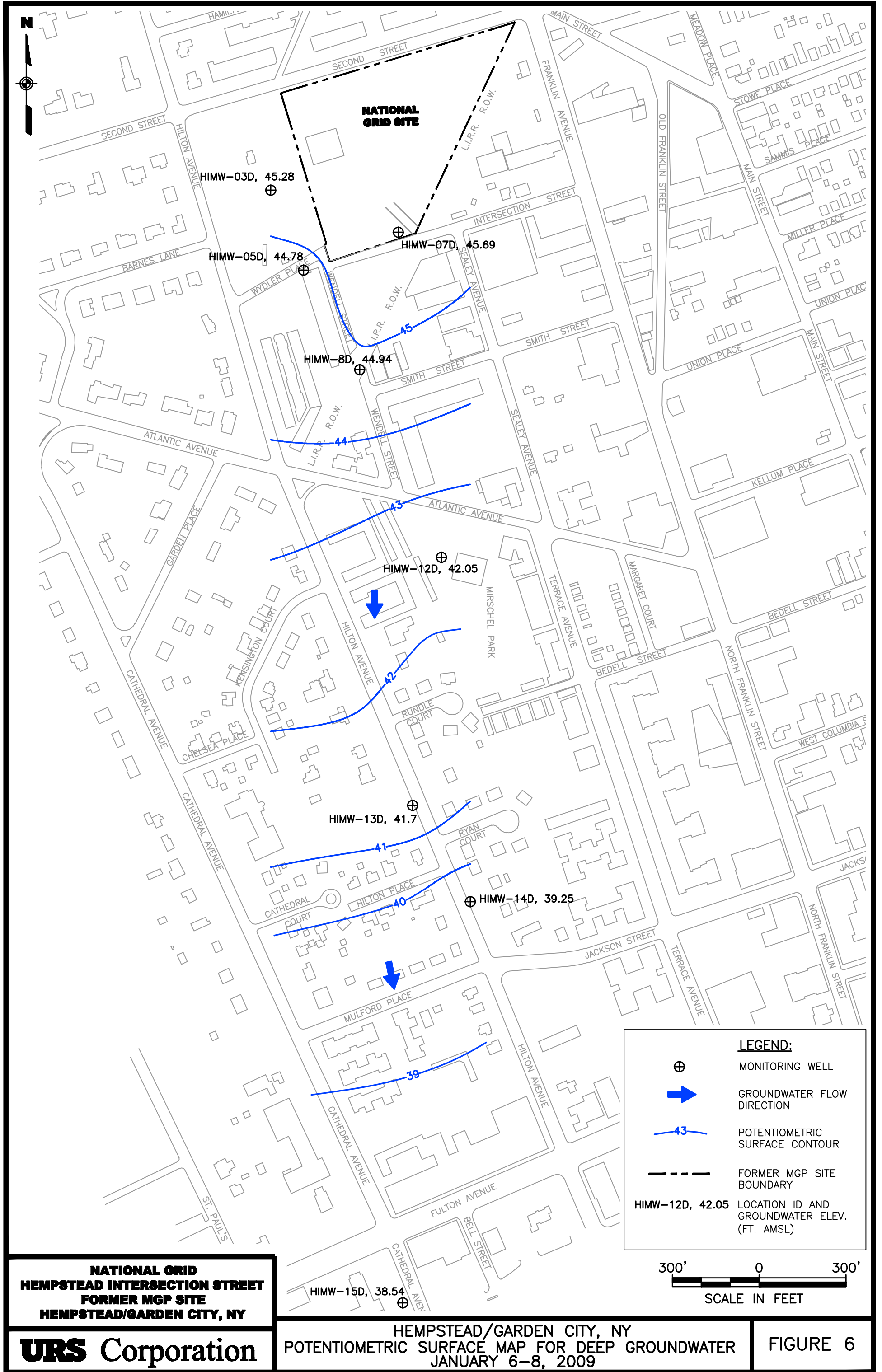
**HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR SHALLOW GROUNDWATER
JANUARY 6-8, 2009**

FIGURE 4

LEGEND:	
	MONITORING WELL
	IPR WELL
	PIEZOMETER
	GROUNDWATER FLOW DIRECTION
	POTENTIOMETRIC SURFACE CONTOUR
	FORMER MGP SITE BOUNDARY
	LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)





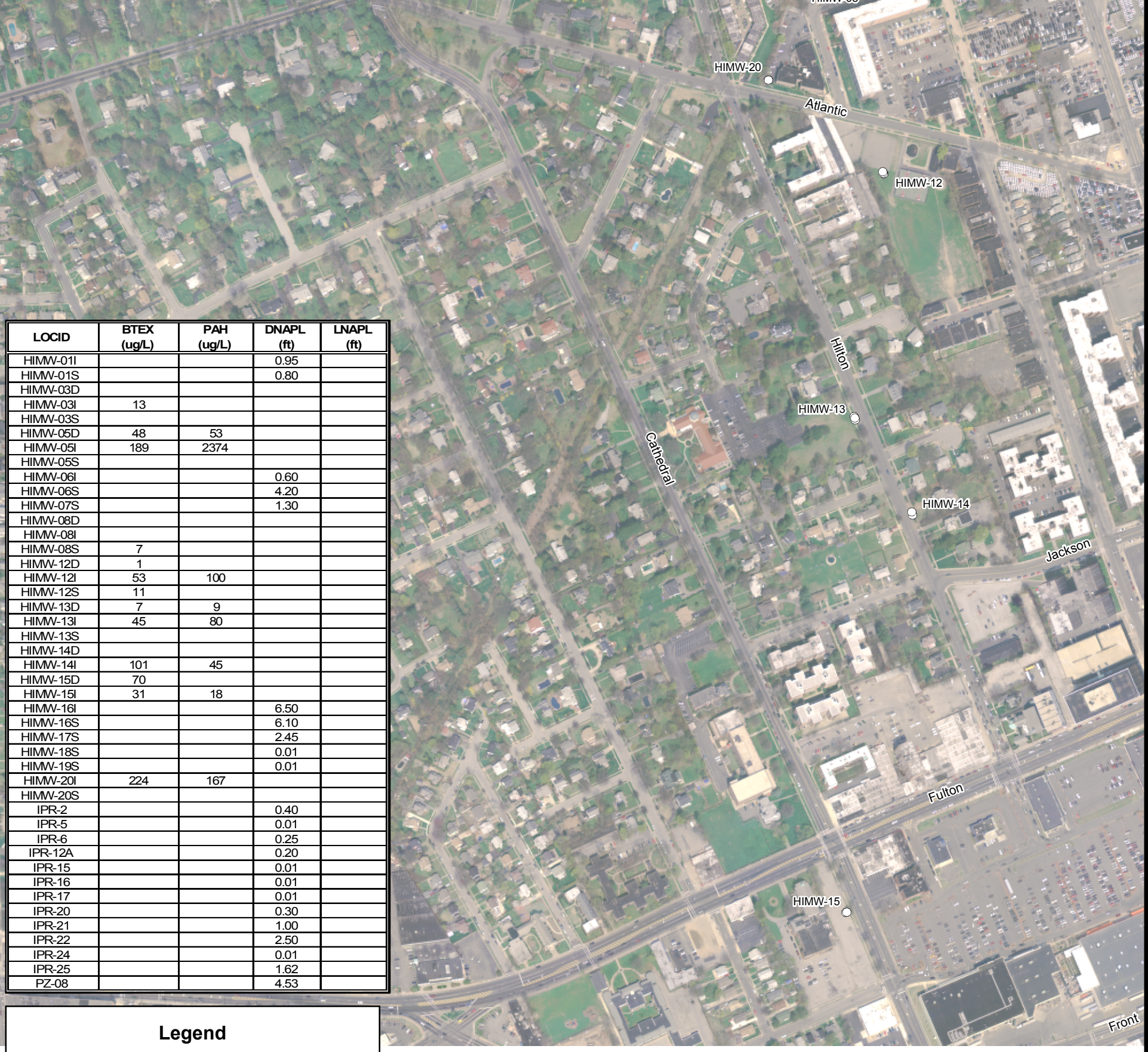
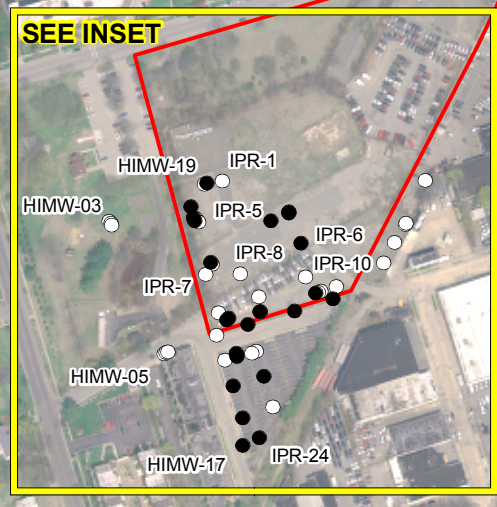
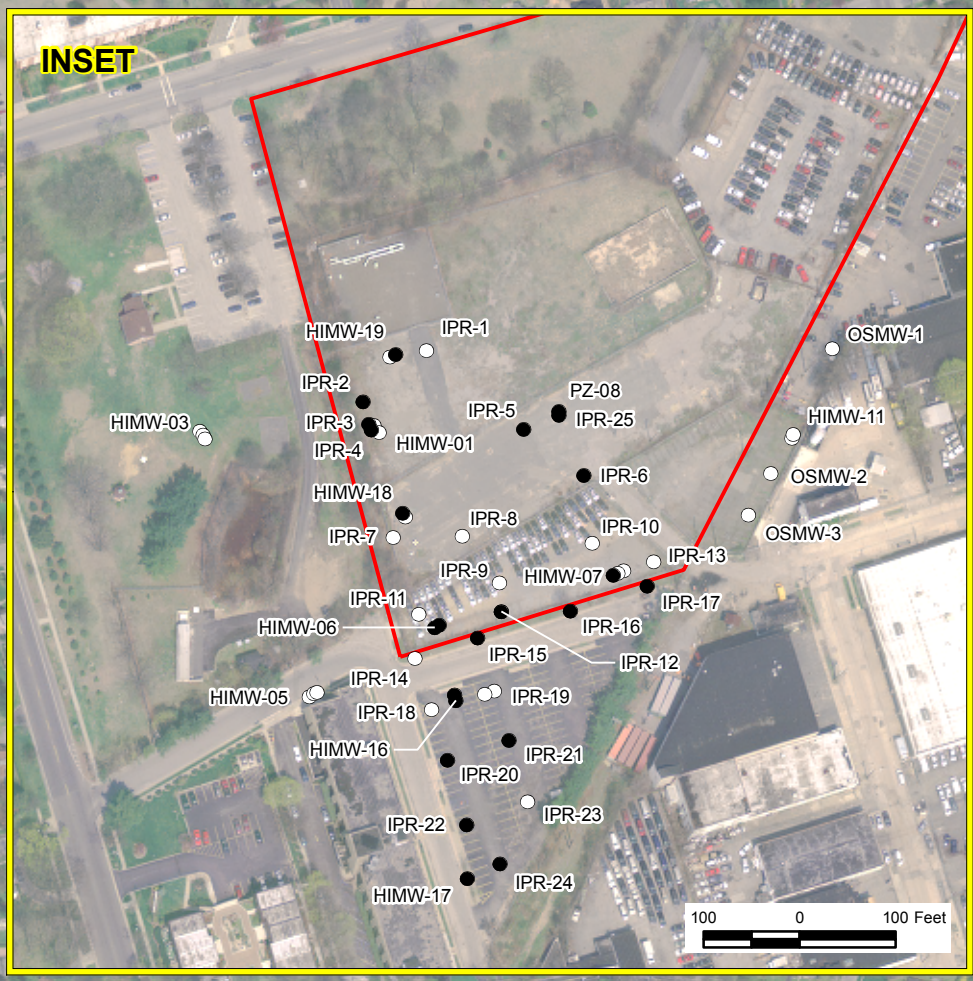


**NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY**

URS Corporation

**HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
JANUARY 6-8, 2009**

FIGURE 6



LOCID	BTEX (ug/L)	PAH (ug/L)	DNAPL (ft)	LNAPL (ft)
HIMW-01I			0.95	
HIMW-01S			0.80	
HIMW-03D				
HIMW-03I	13			
HIMW-03S				
HIMW-05D	48	53		
HIMW-05I	189	2374		
HIMW-05S				
HIMW-06I			0.60	
HIMW-06S			4.20	
HIMW-07S			1.30	
HIMW-08D				
HIMW-08I				
HIMW-08S	7			
HIMW-12D	1			
HIMW-12I	53	100		
HIMW-12S	11			
HIMW-13D	7	9		
HIMW-13I	45	80		
HIMW-13S				
HIMW-14D				
HIMW-14I	101	45		
HIMW-15D	70			
HIMW-15I	31	18		
HIMW-16I			6.50	
HIMW-16S			6.10	
HIMW-17S			2.45	
HIMW-18S			0.01	
HIMW-19S			0.01	
HIMW-20I	224	167		
HIMW-20S				
IPR-2			0.40	
IPR-5			0.01	
IPR-6			0.25	
IPR-12A			0.20	
IPR-15			0.01	
IPR-16			0.01	
IPR-17			0.01	
IPR-20			0.30	
IPR-21			1.00	
IPR-22			2.50	
IPR-24			0.01	
IPR-25			1.62	
PZ-08			4.53	

Legend

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



HEMPSTEAD/GARDEN CITY, NY
 TOTAL DISSOLVED-PHASE BTEX/PAH CONCENTRATIONS
 AND FREE PRODUCT THICKNESS
 FIRST QUARTER 2009

FIGURE 7

J:\1175065.000\00\BGS\ARCMA\0109 BTEXPAH-NAPL.mxd 6/15/2009 4:05:25 PM Lumb, M

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

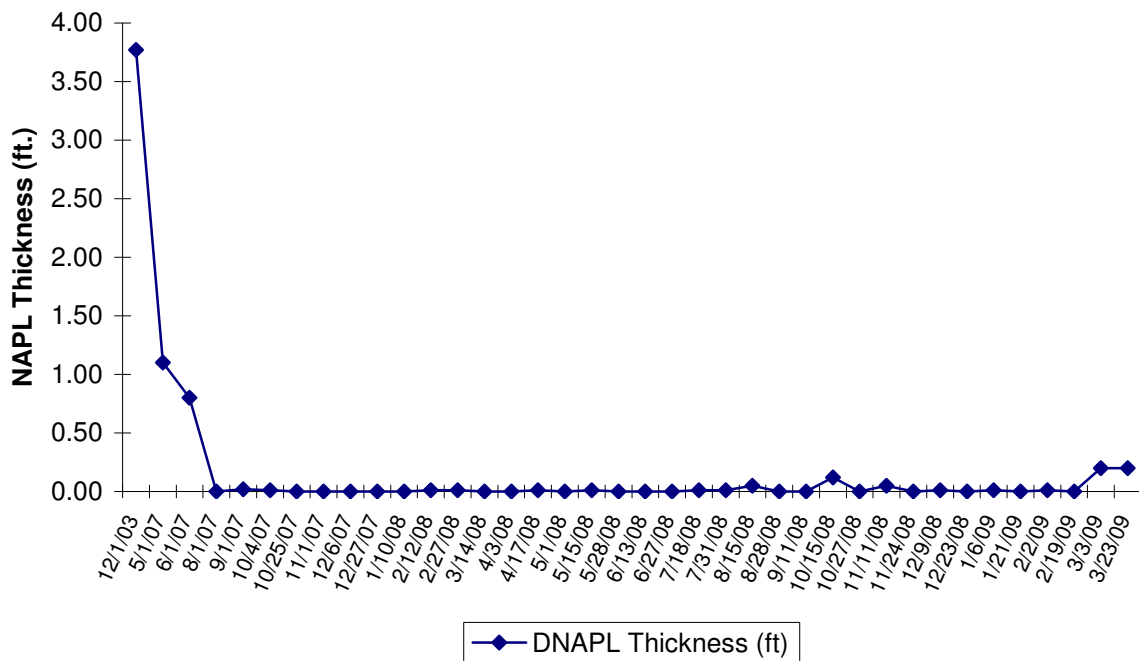
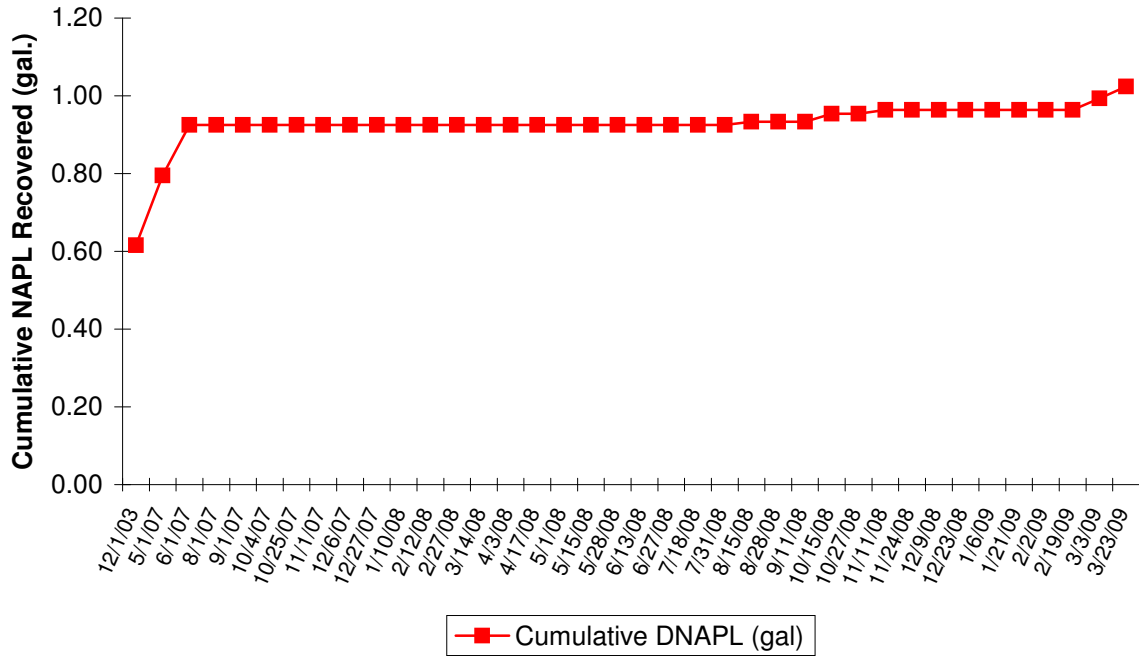


FIGURE 8B
Well HIMW-011 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

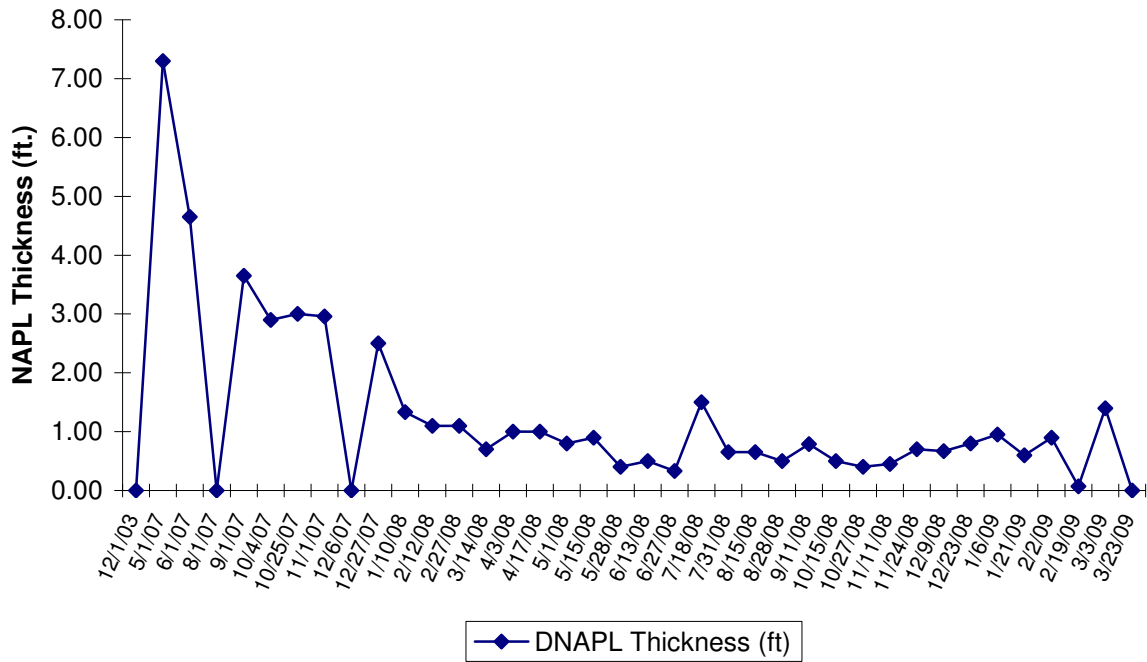
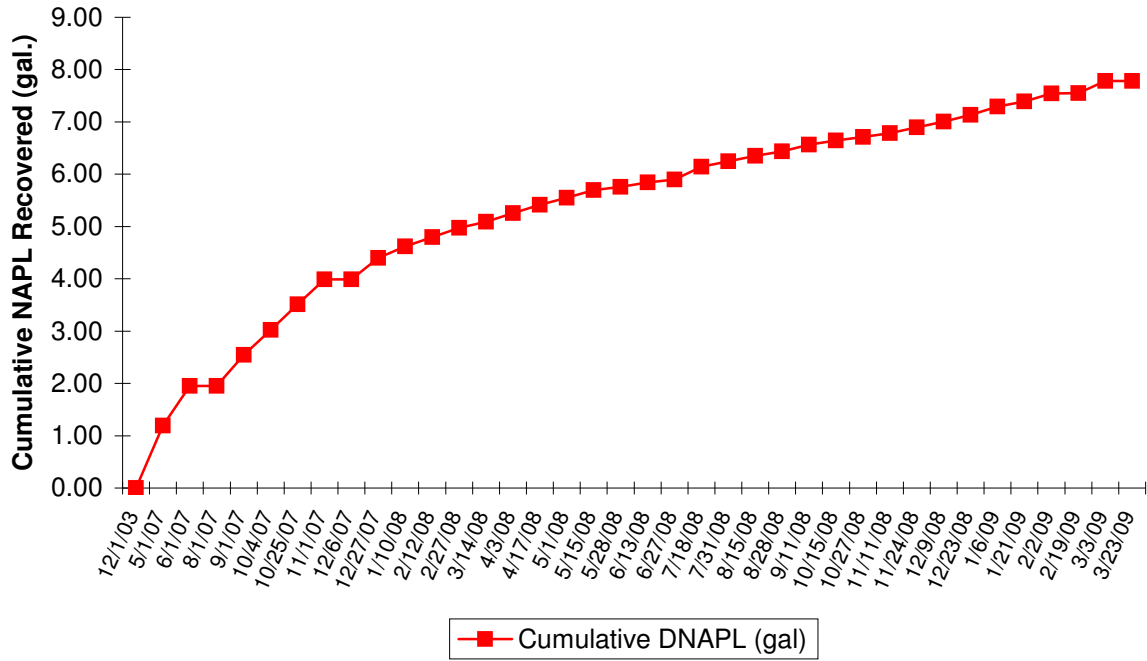


FIGURE 8C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

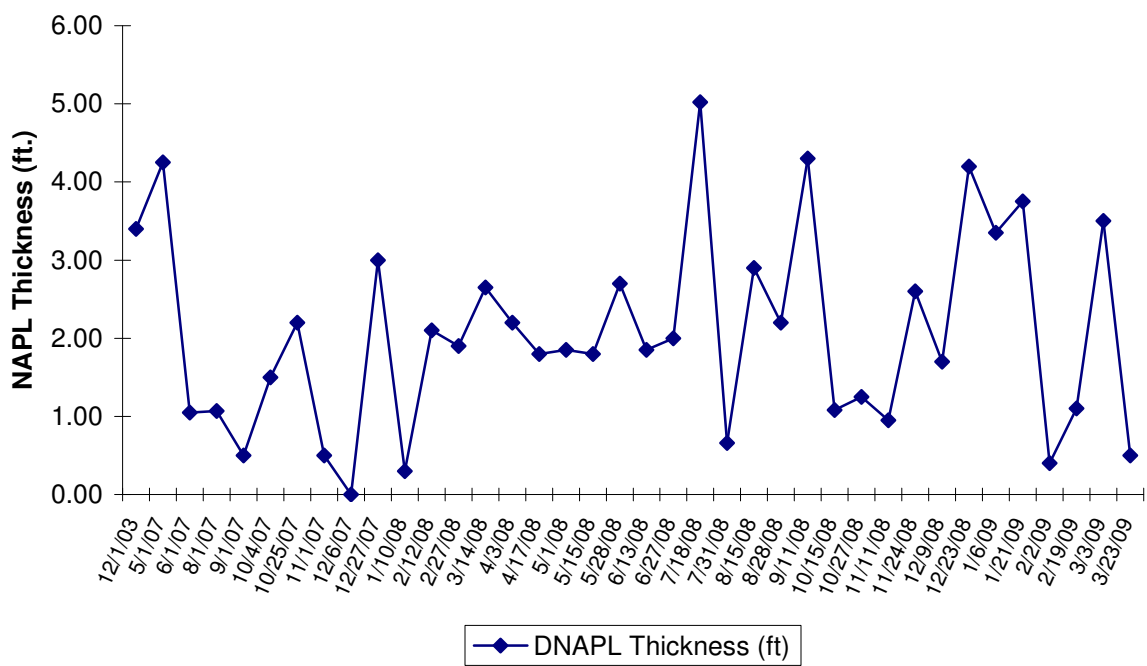
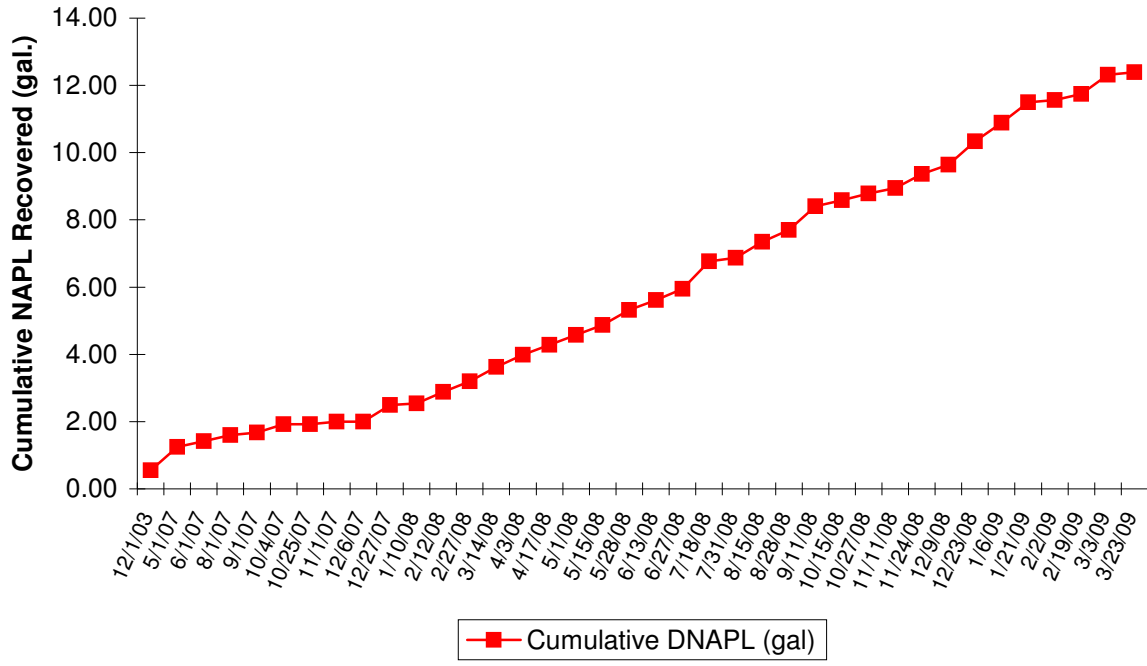


FIGURE 8D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

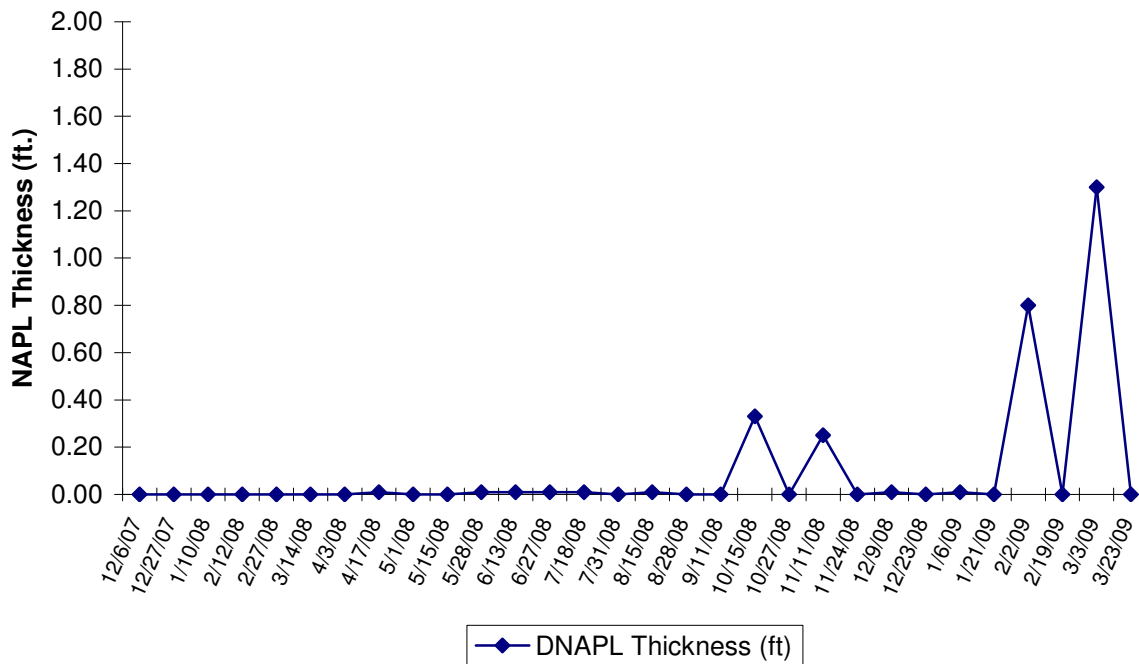
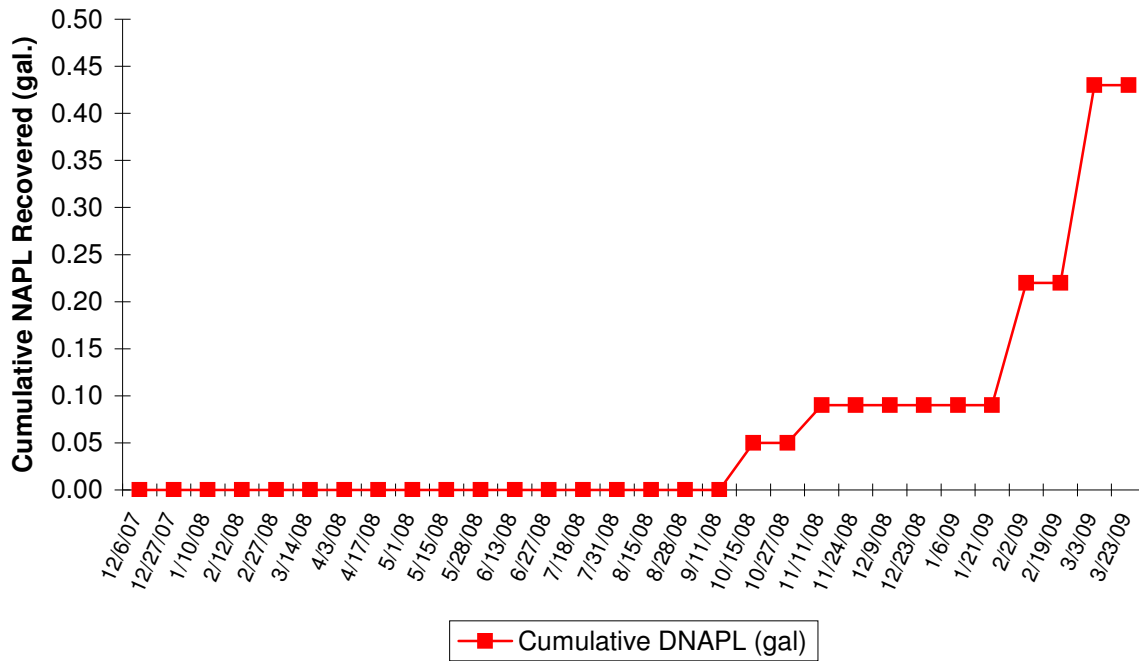


FIGURE 8E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

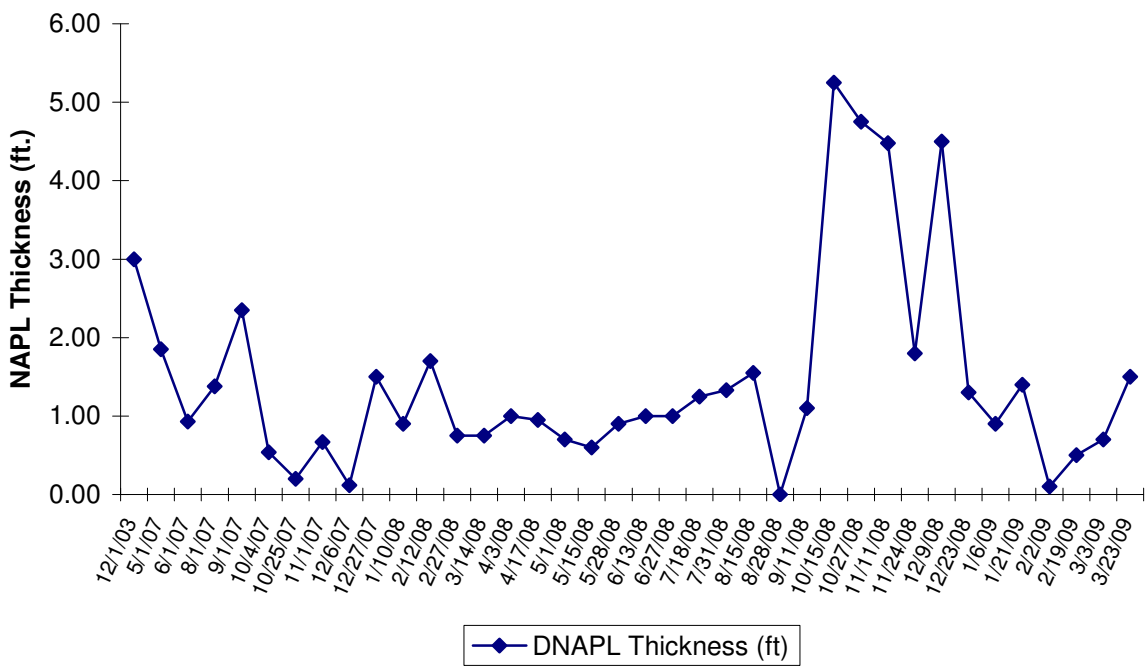
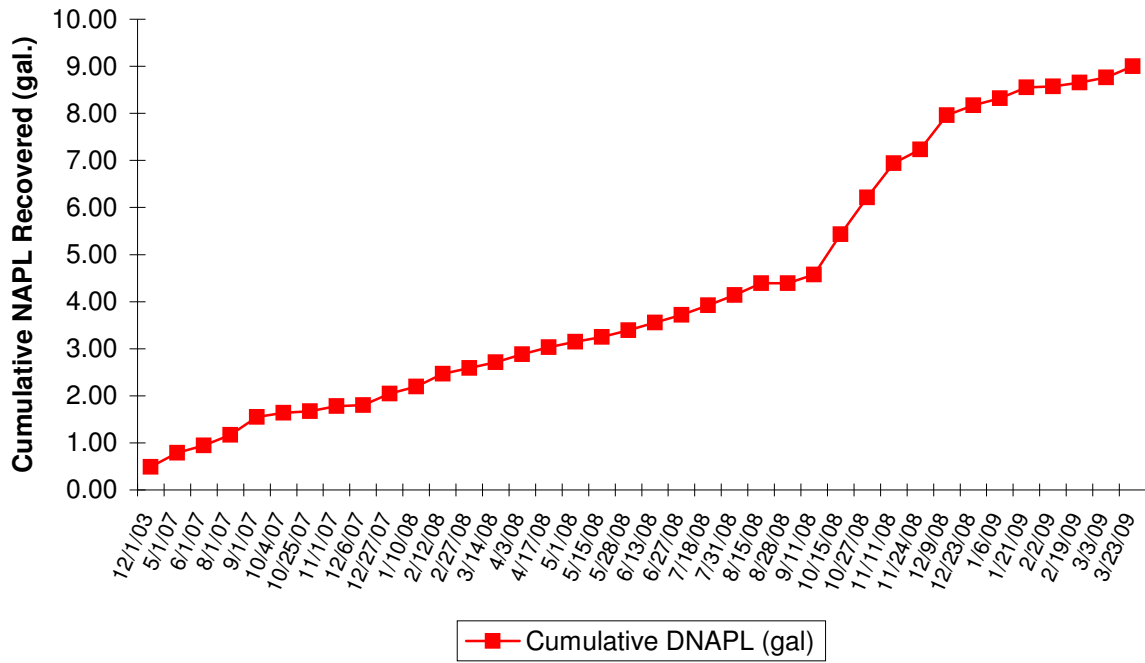


FIGURE 8F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

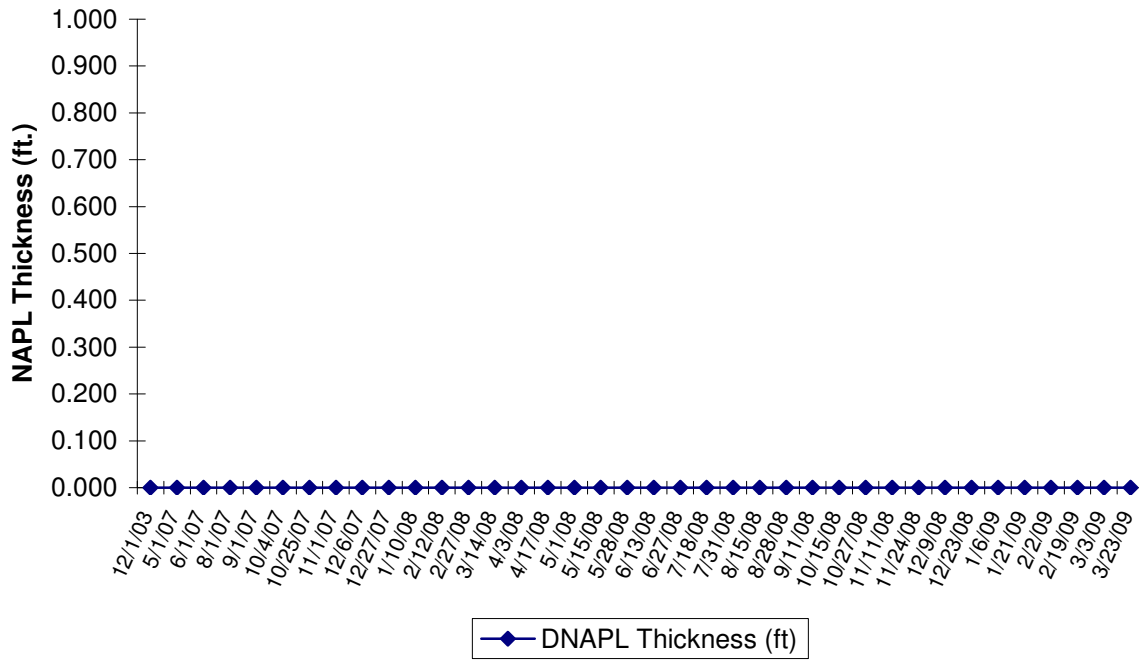
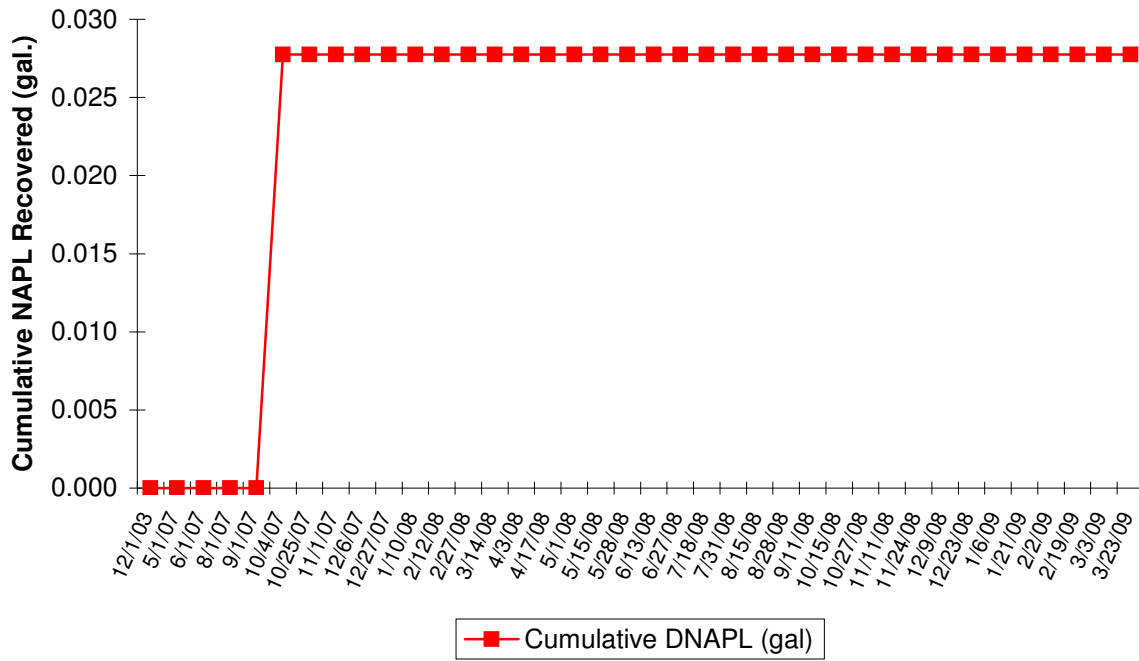


FIGURE 8G
Well HIMW-111 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

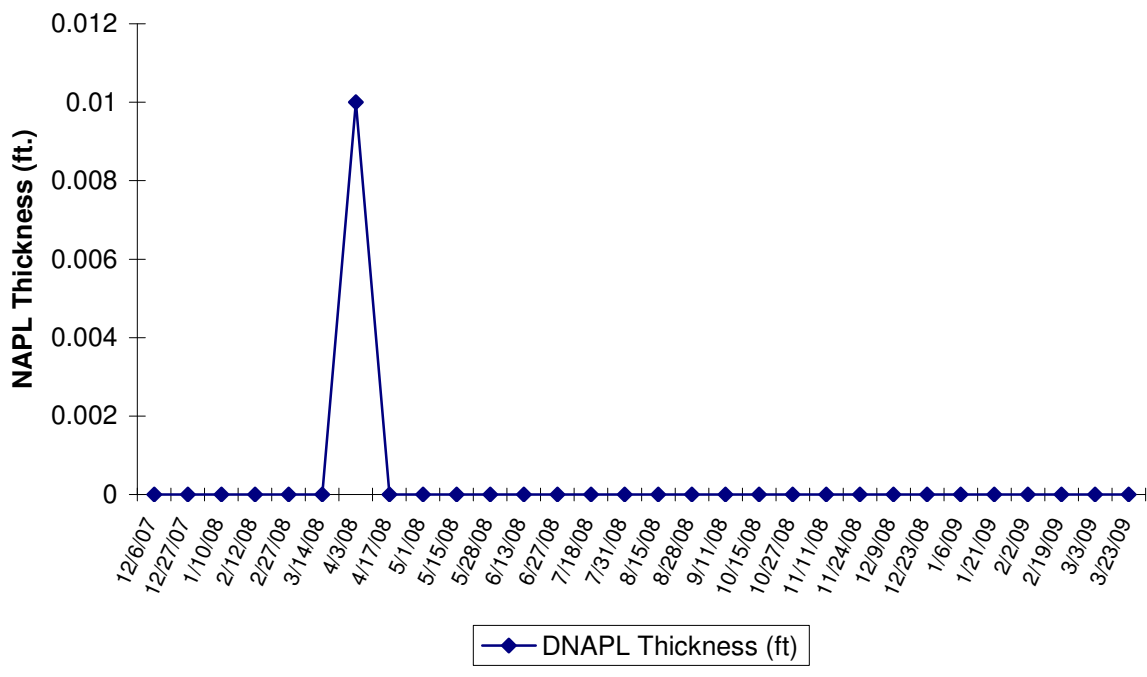
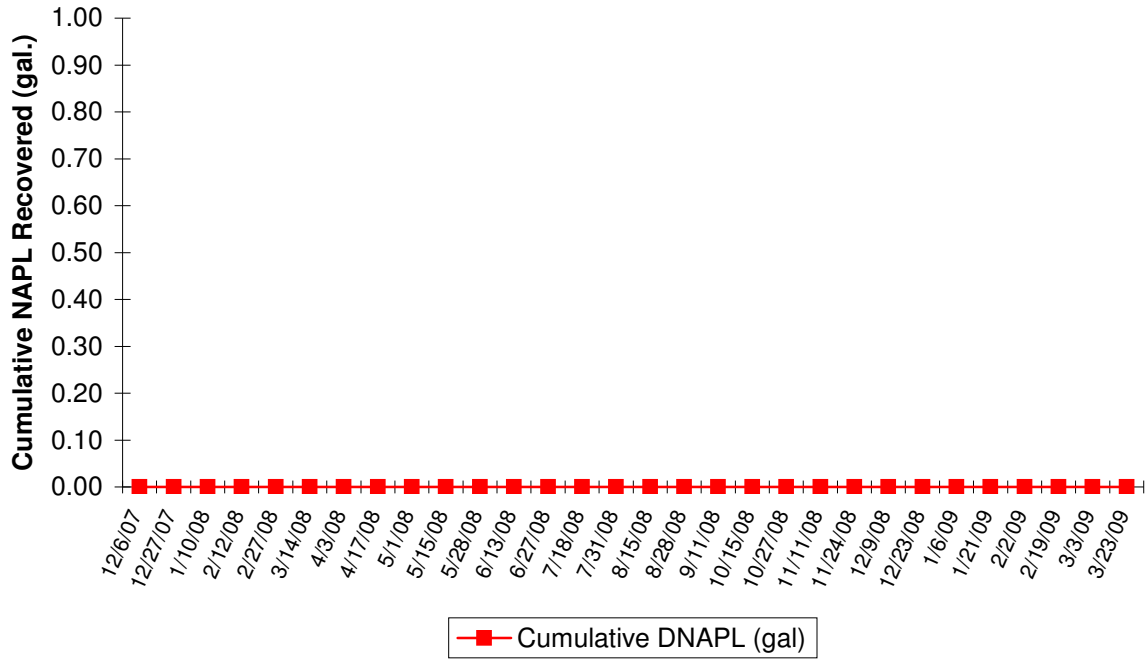


FIGURE 8H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

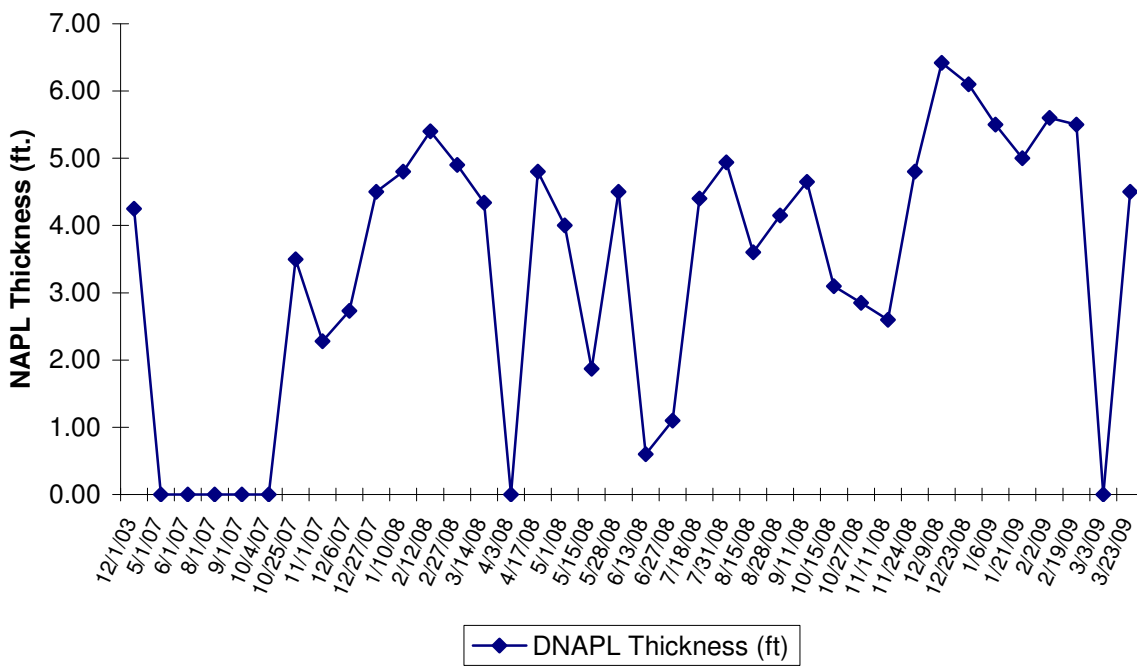
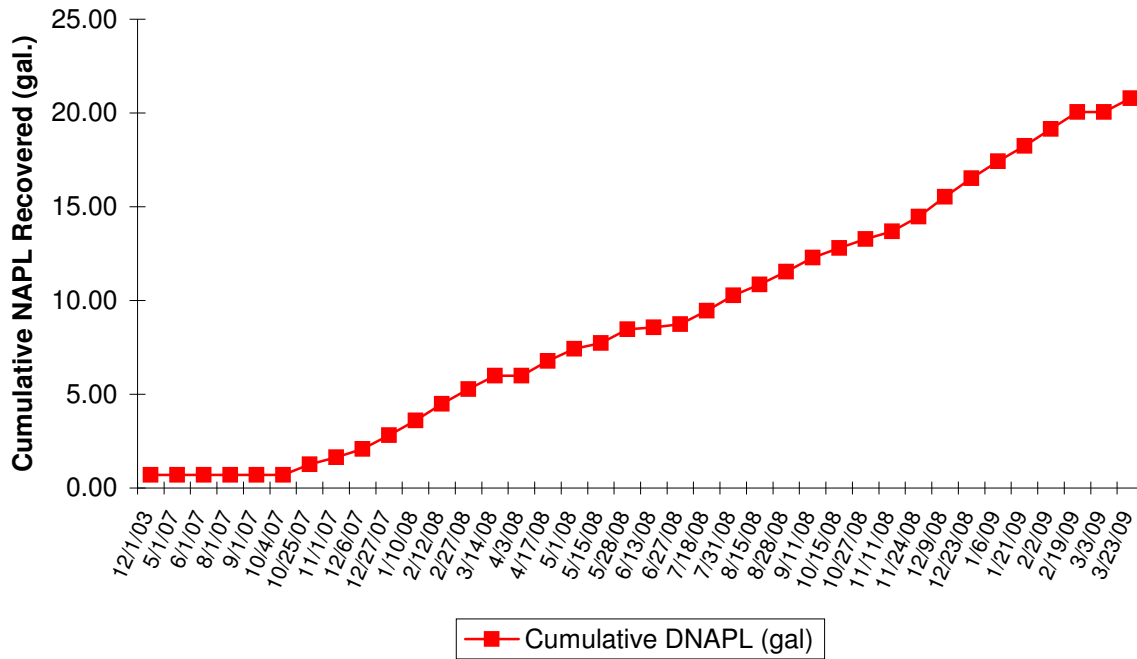


FIGURE 8I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

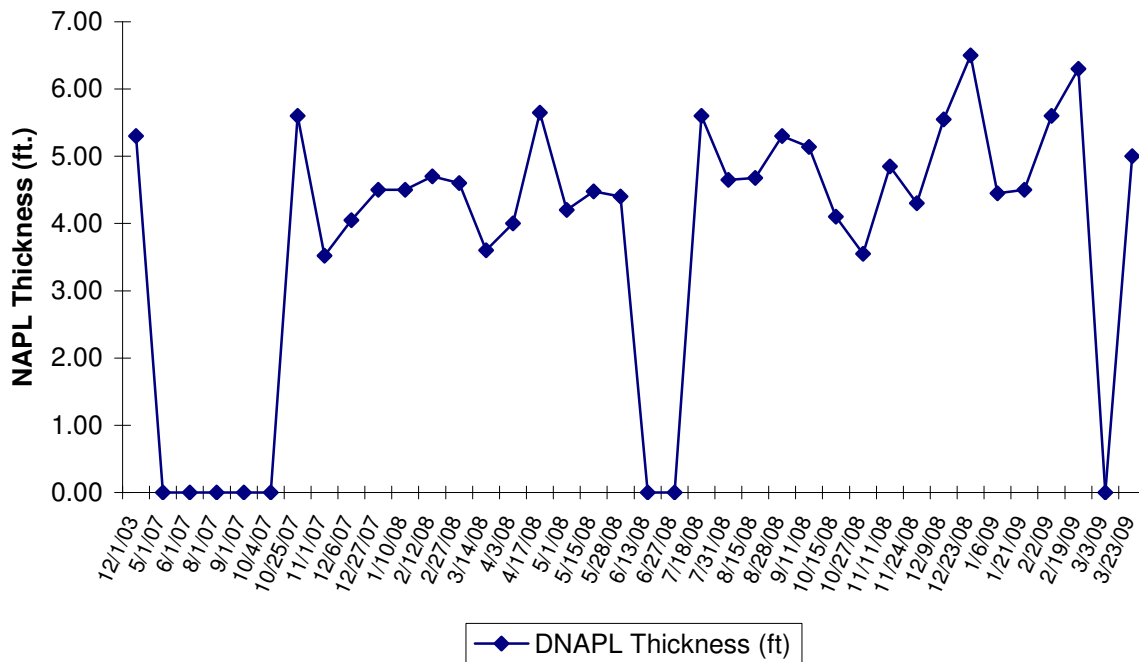
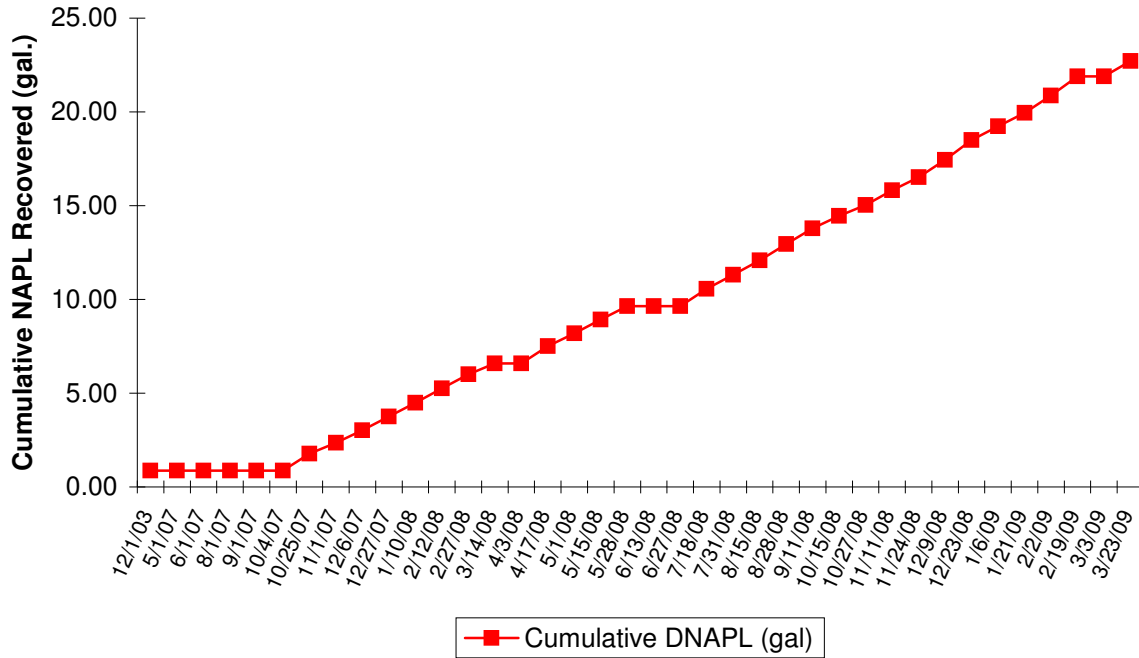


FIGURE 8J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

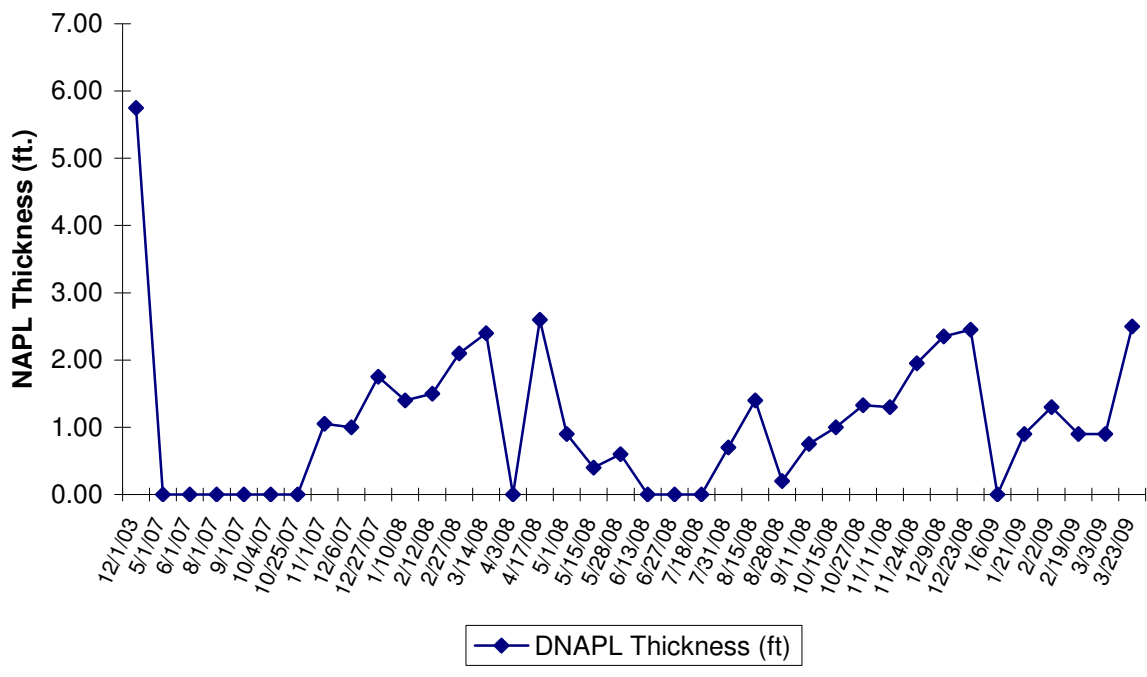
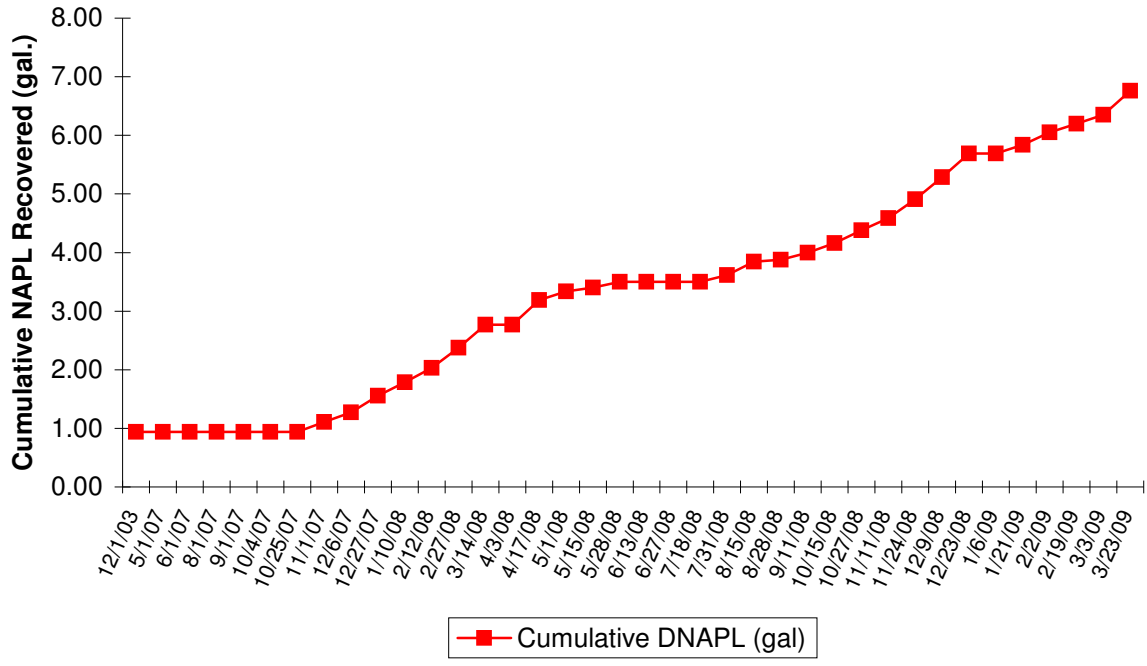


FIGURE 8K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

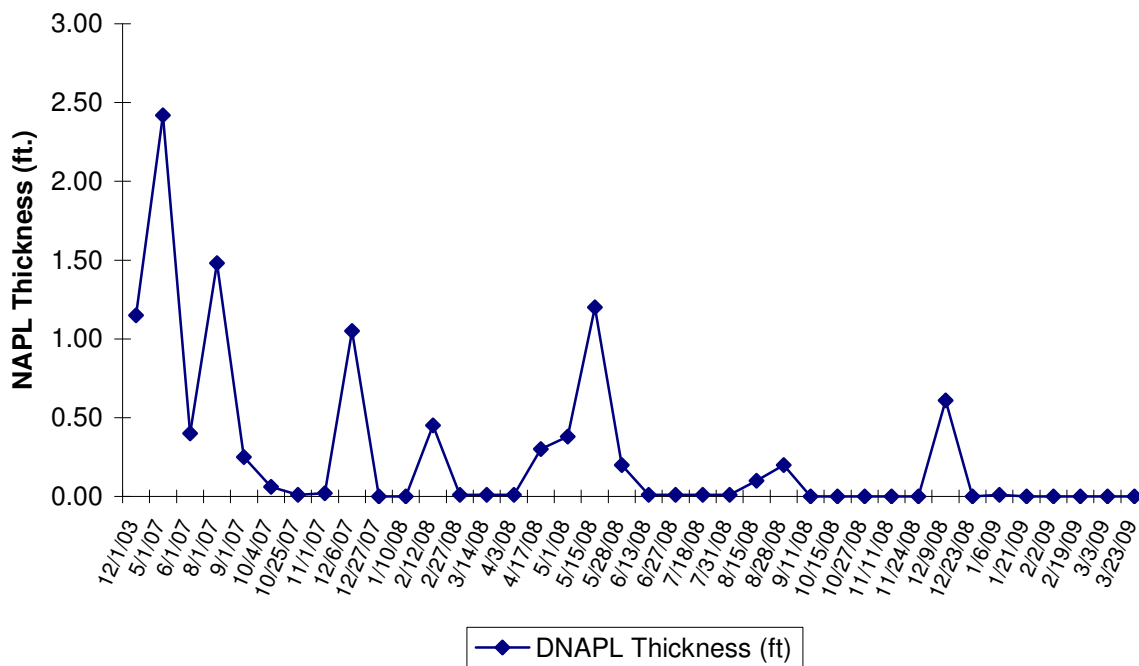
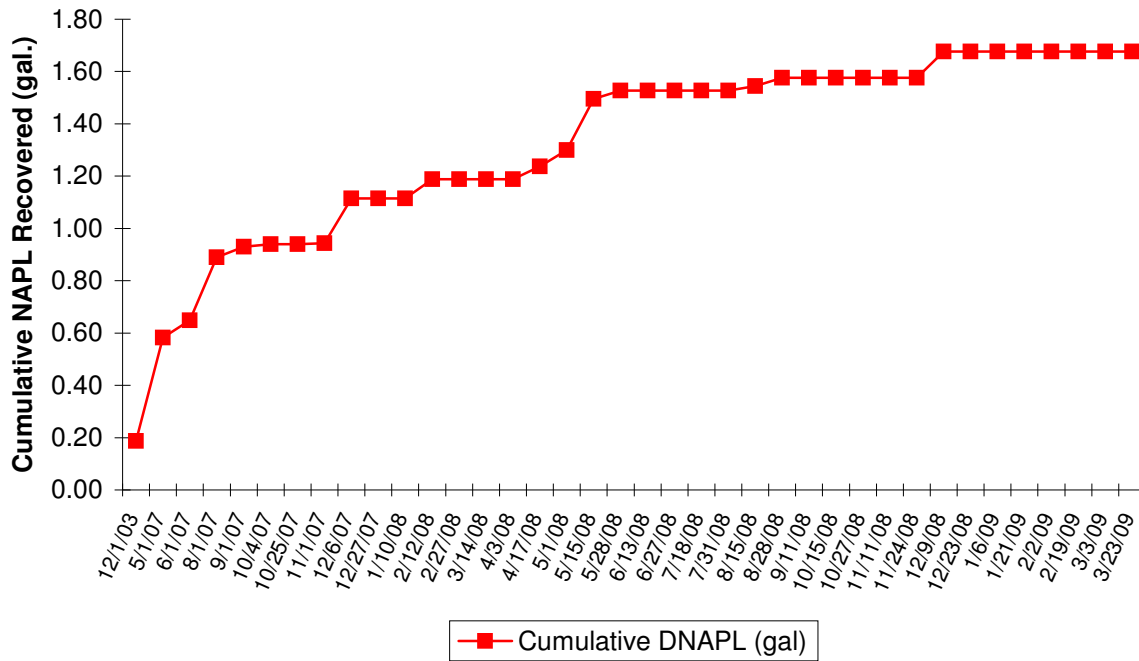


FIGURE 8L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

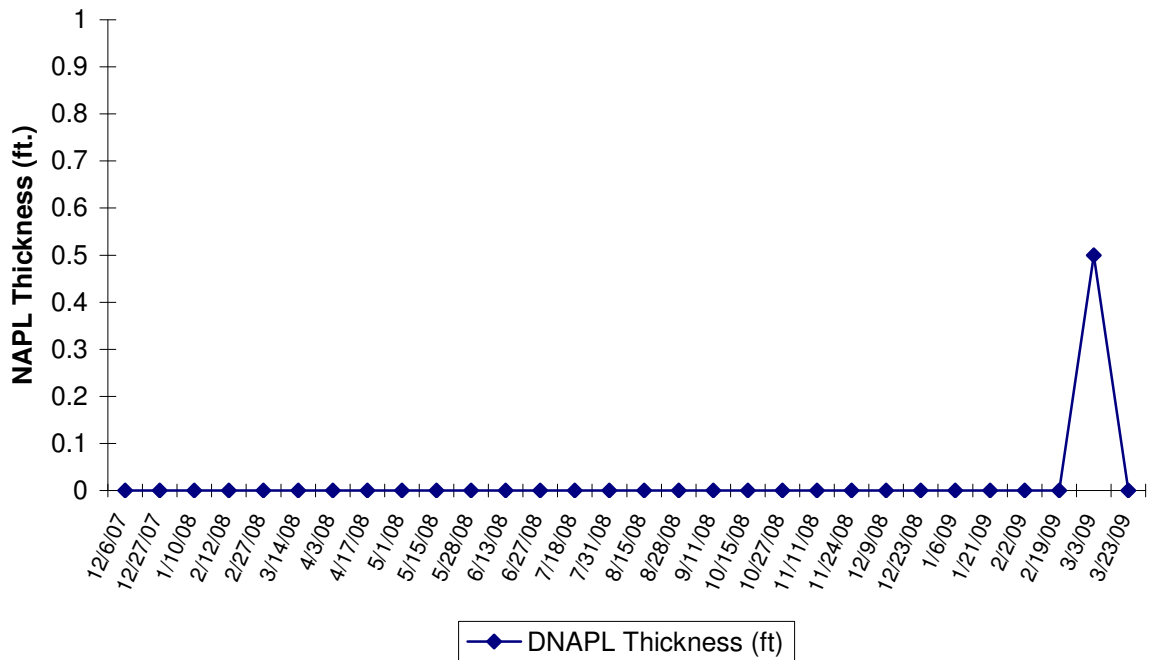
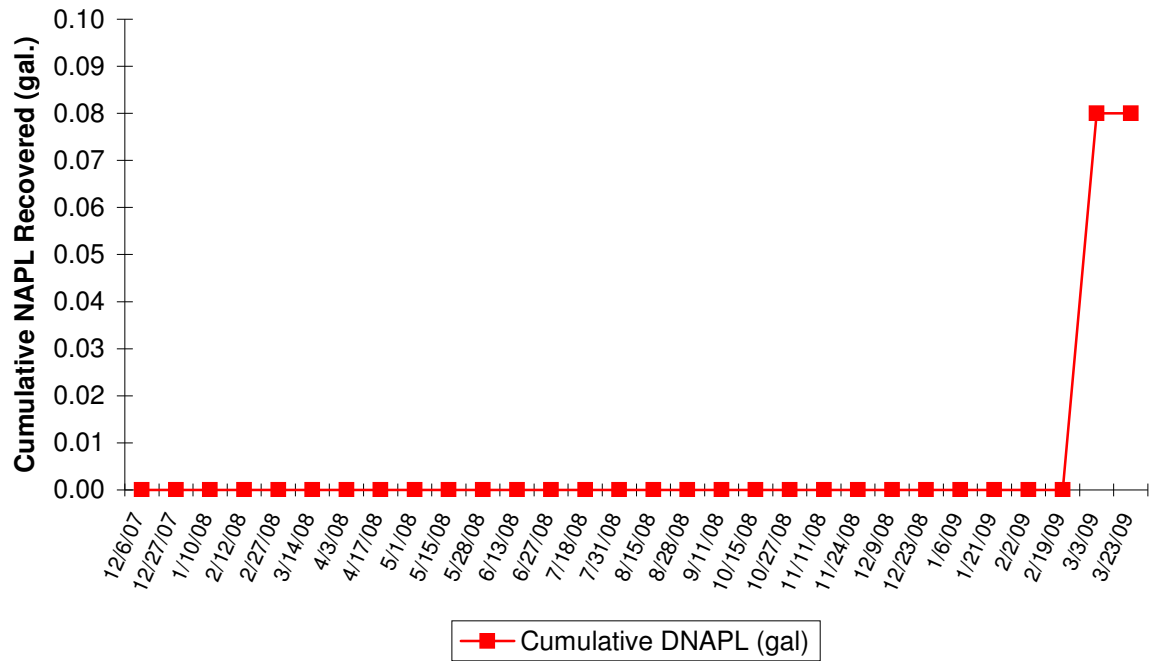


FIGURE 8M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

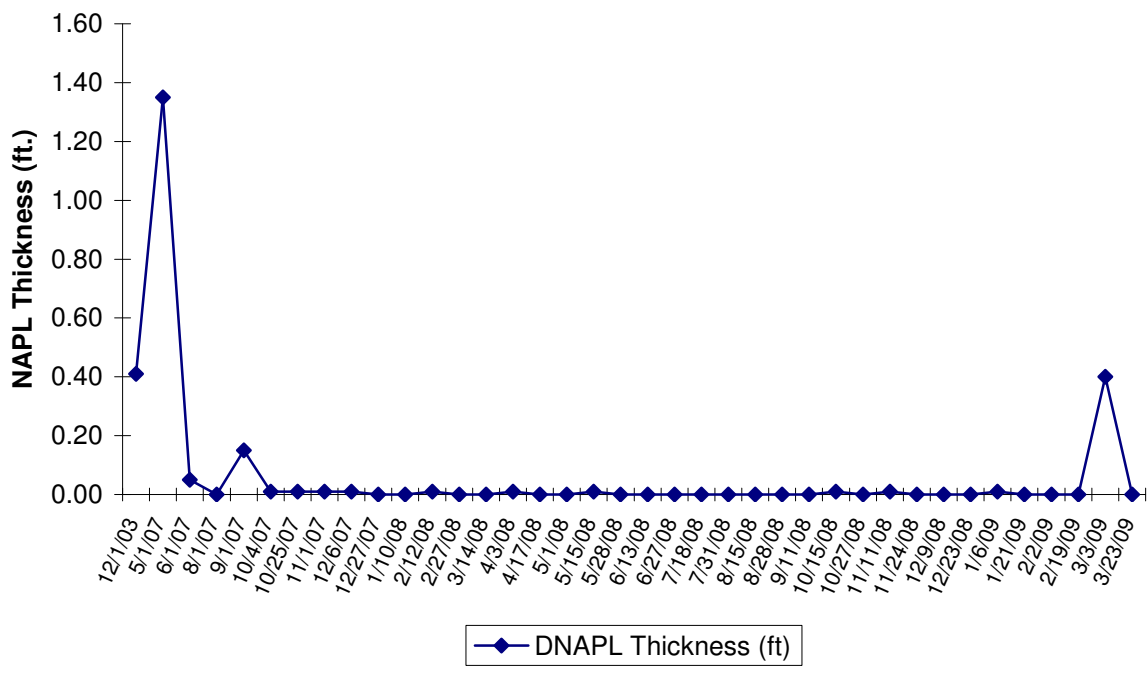
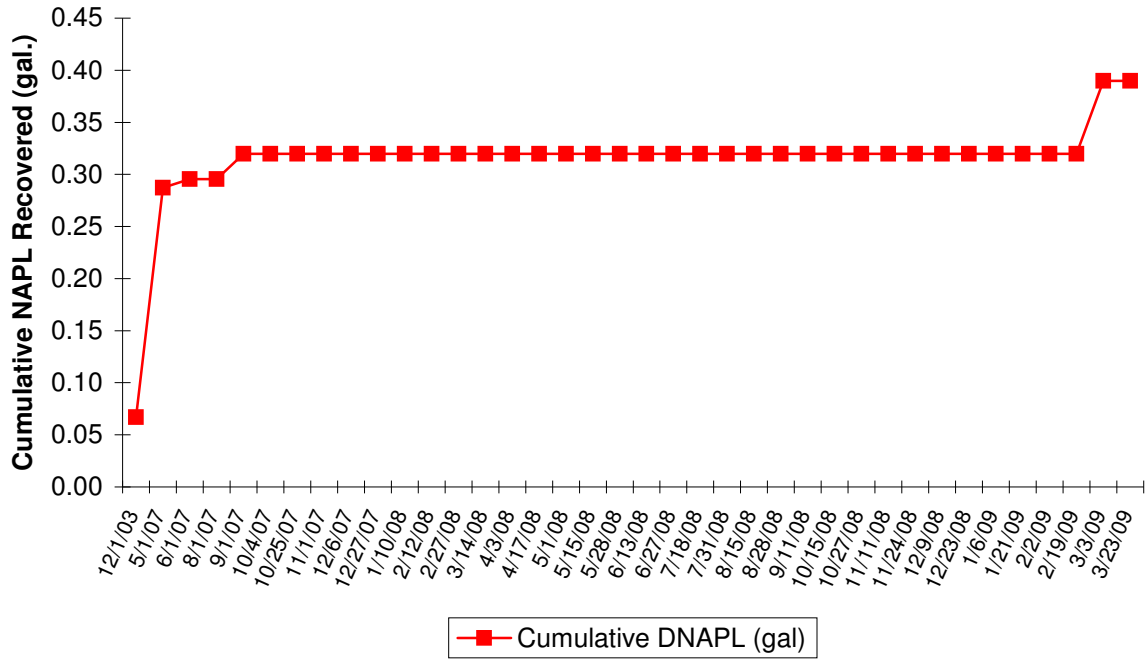


FIGURE 8N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

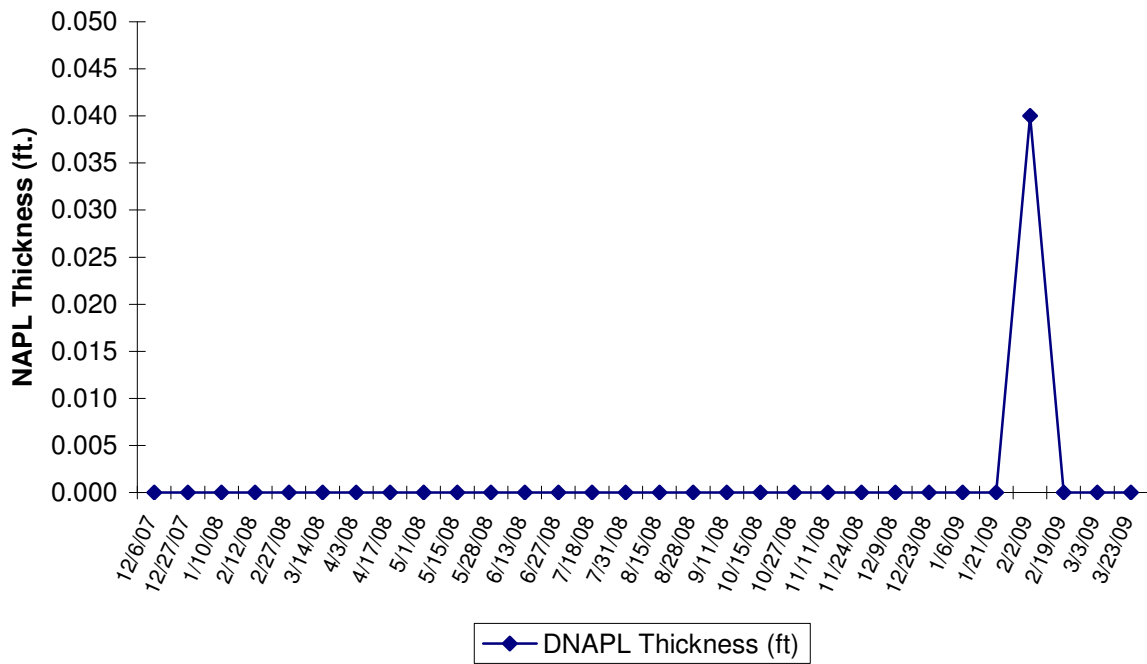
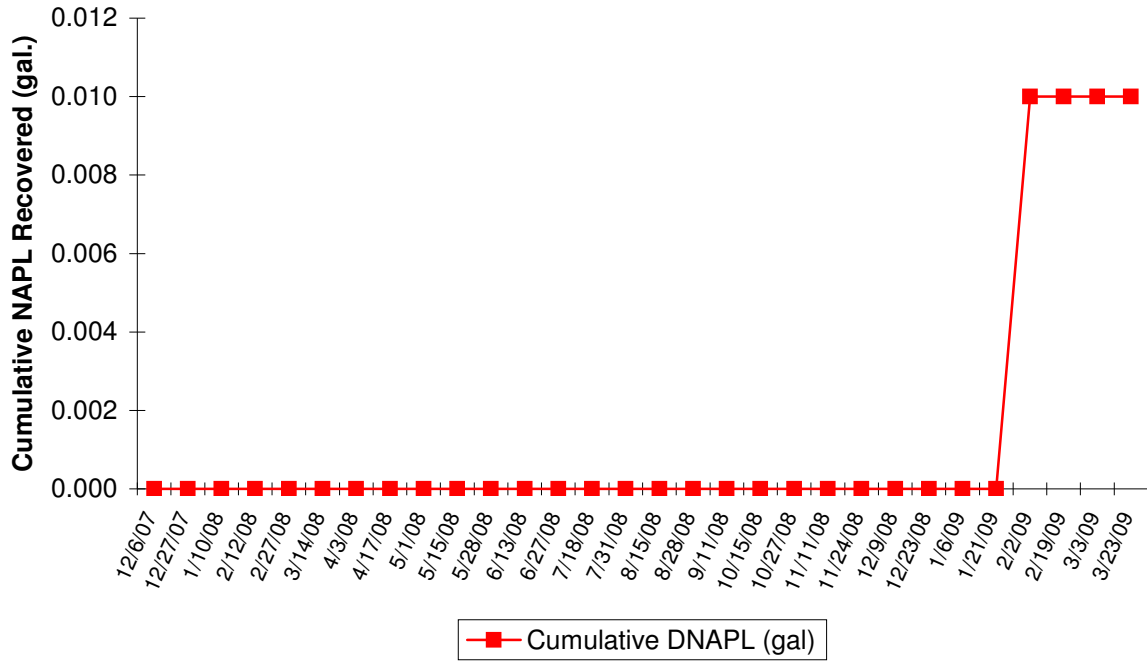


FIGURE 80
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

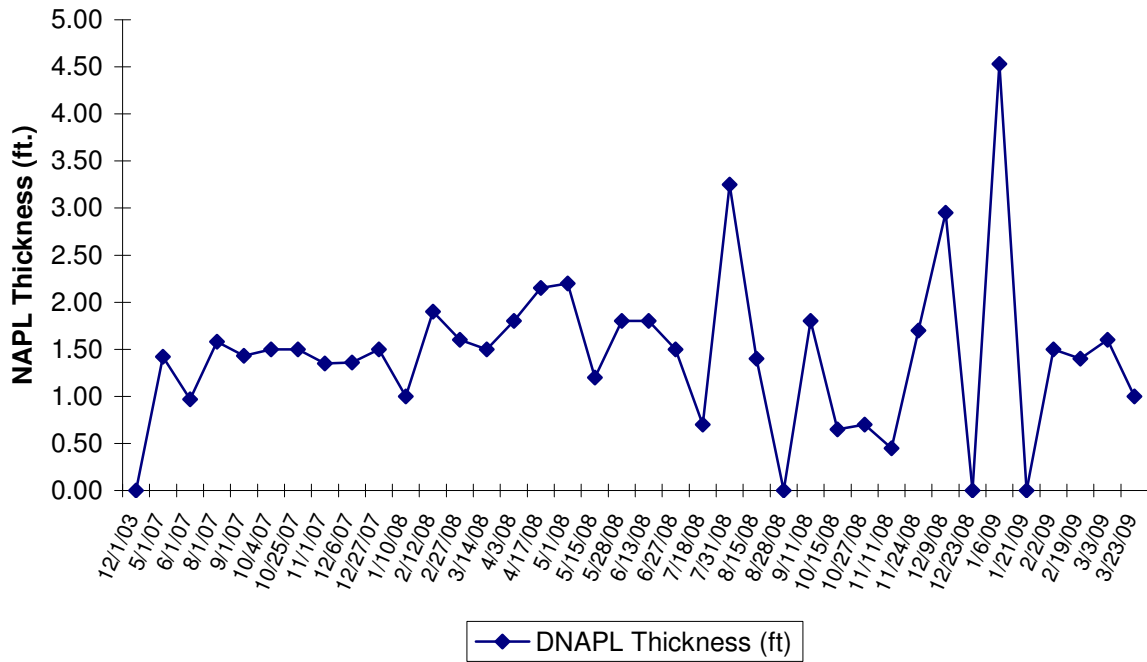
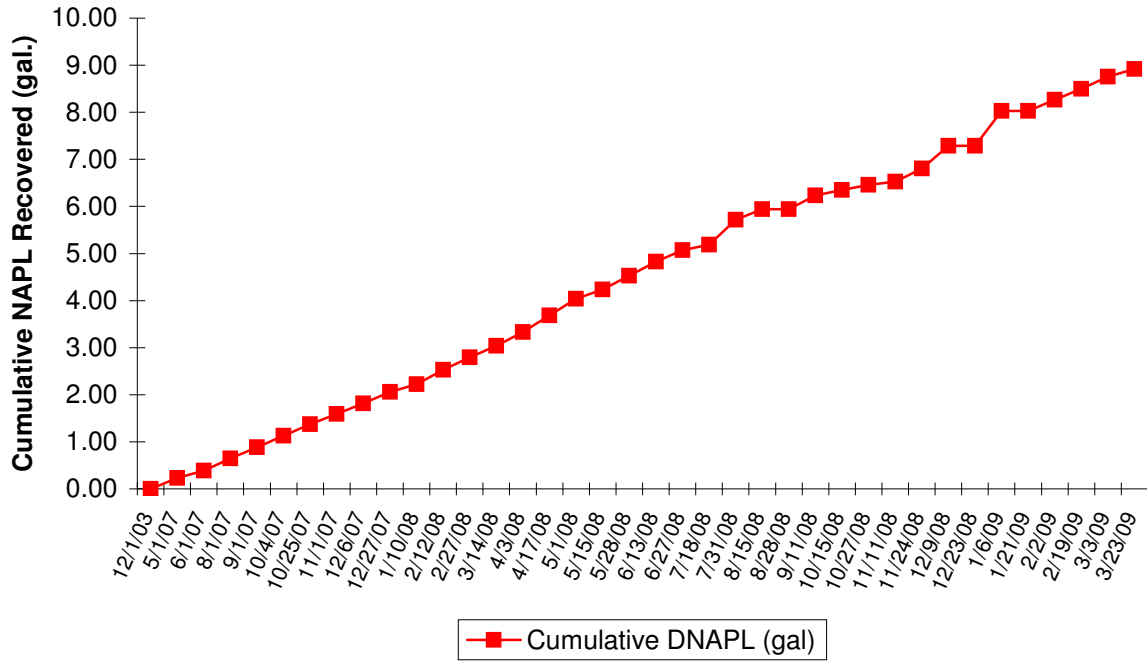


FIGURE 8P
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

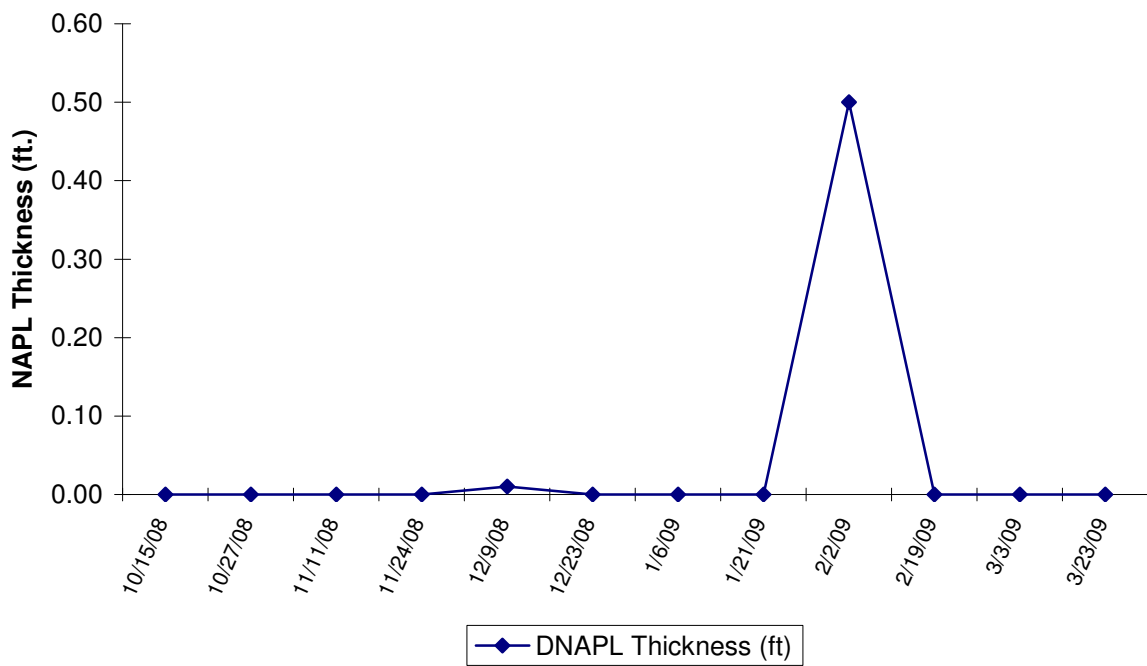
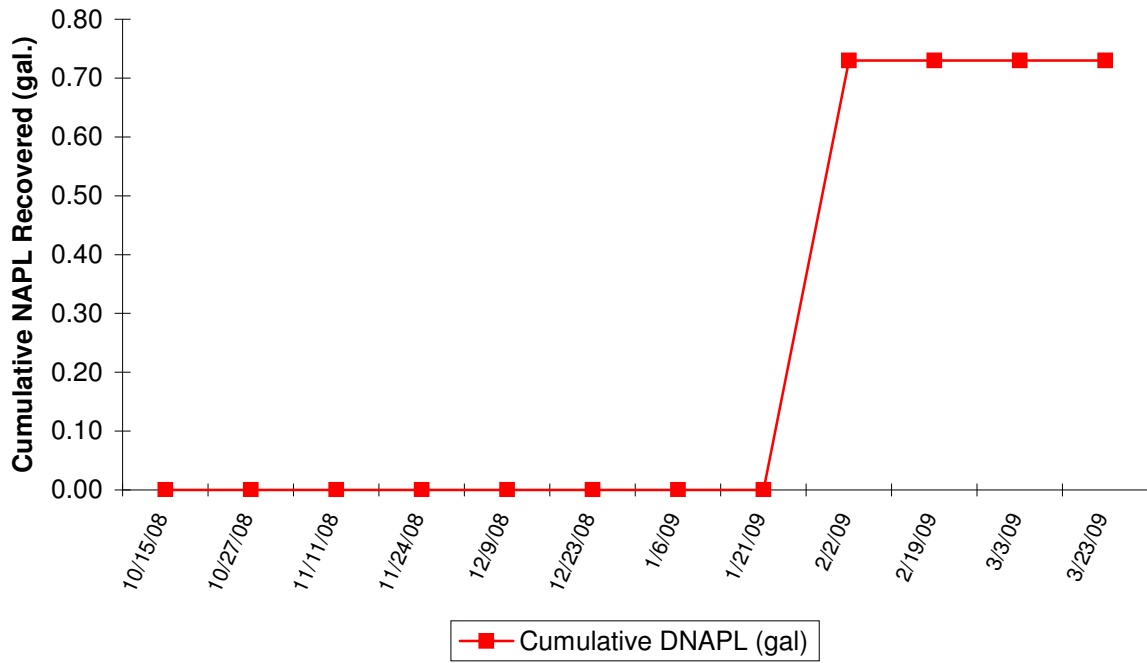


FIGURE 8Q
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

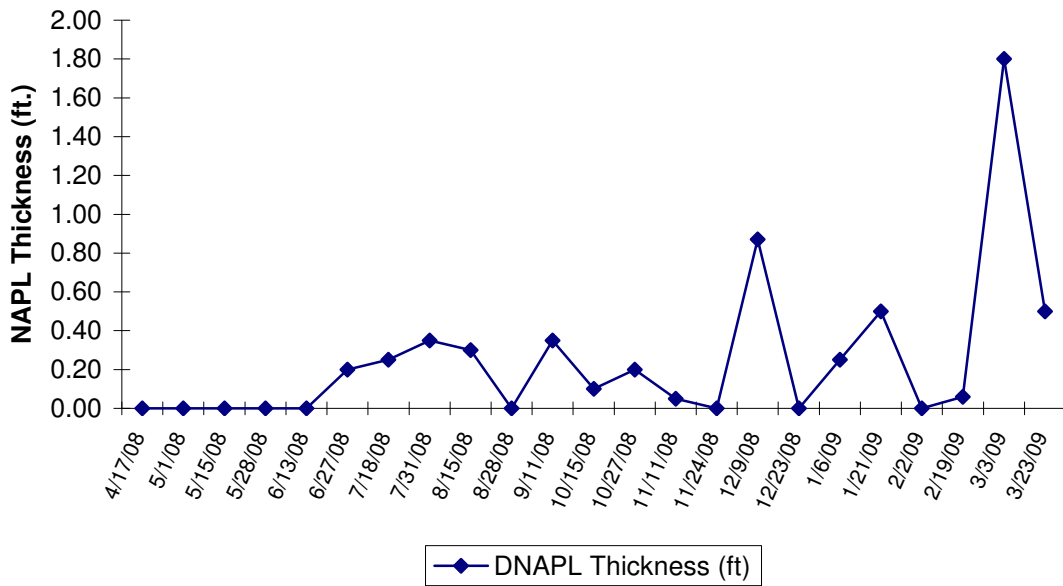
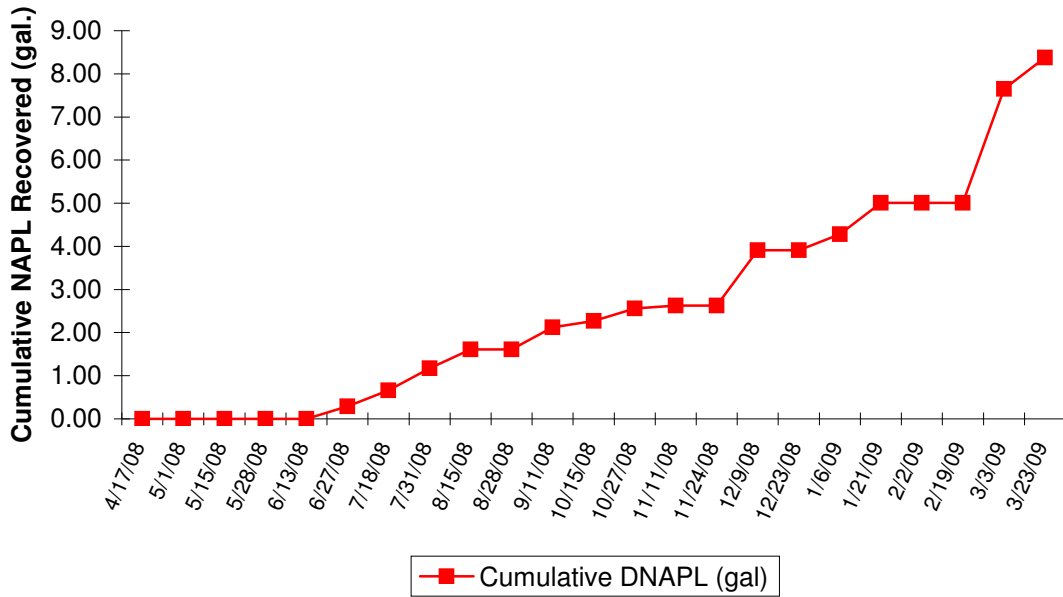


FIGURE 8R
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

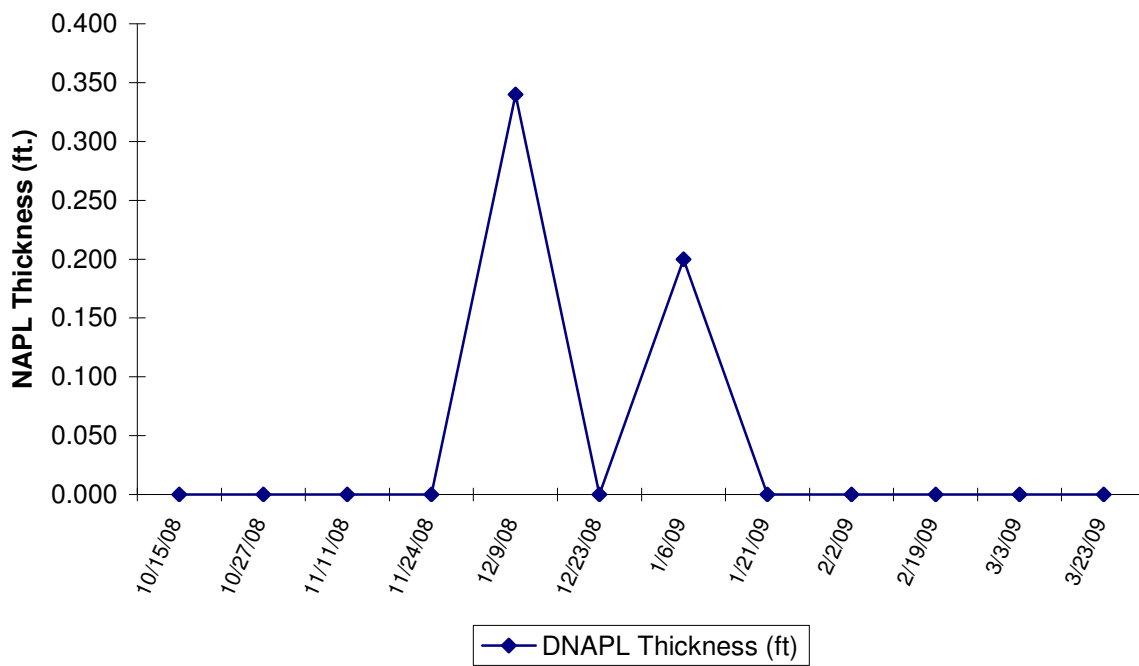
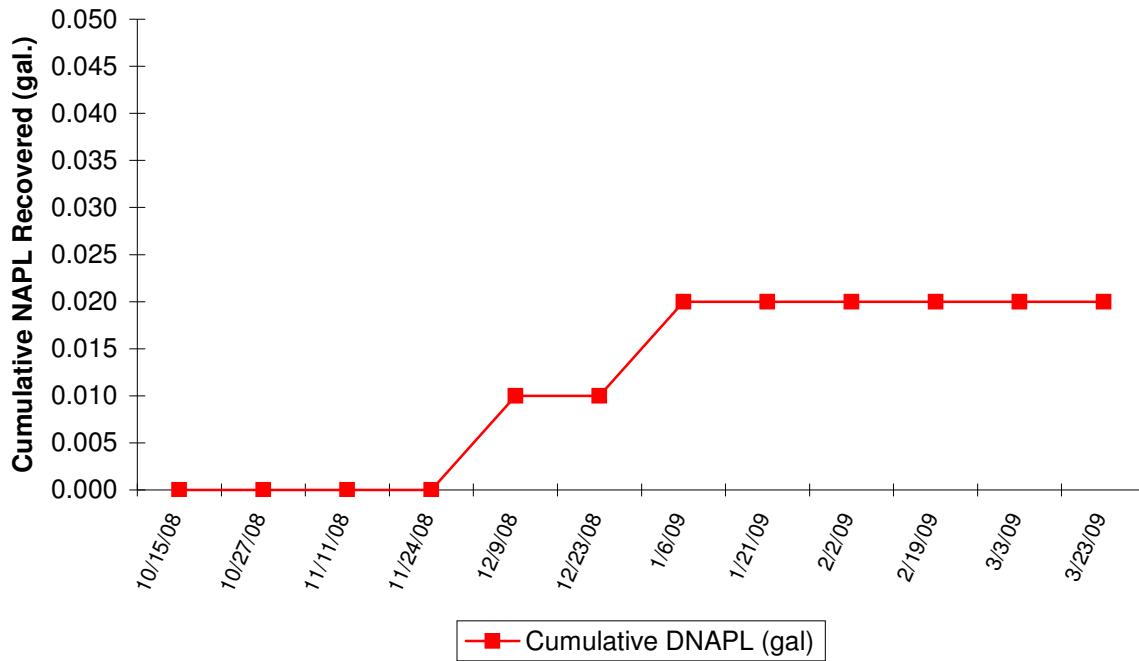


FIGURE 8S
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

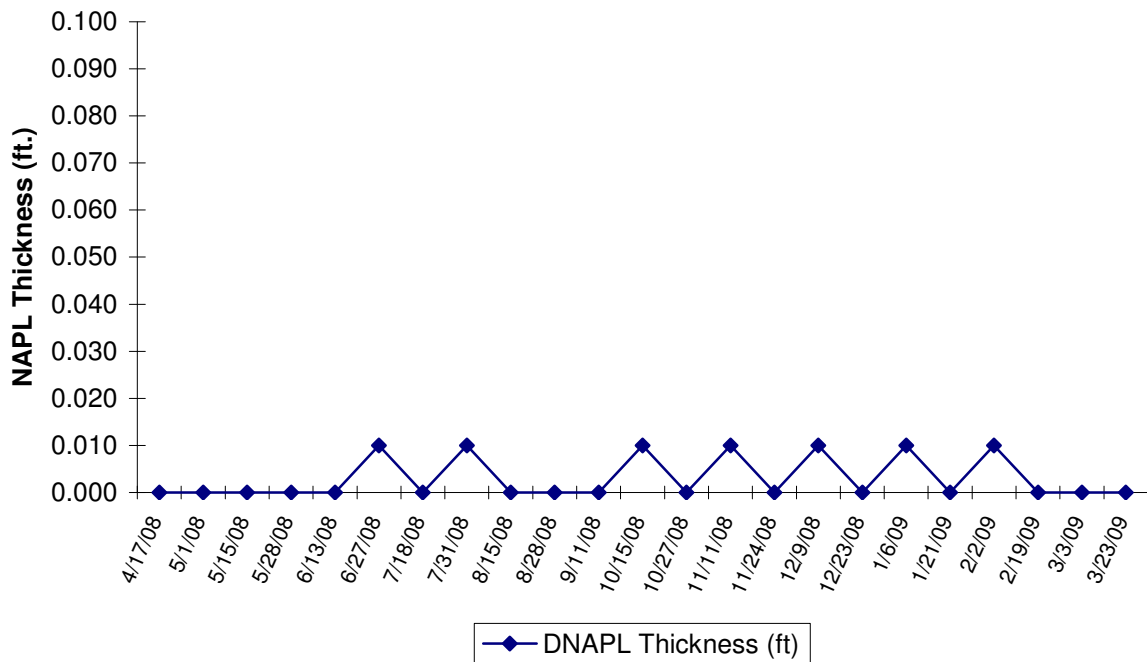
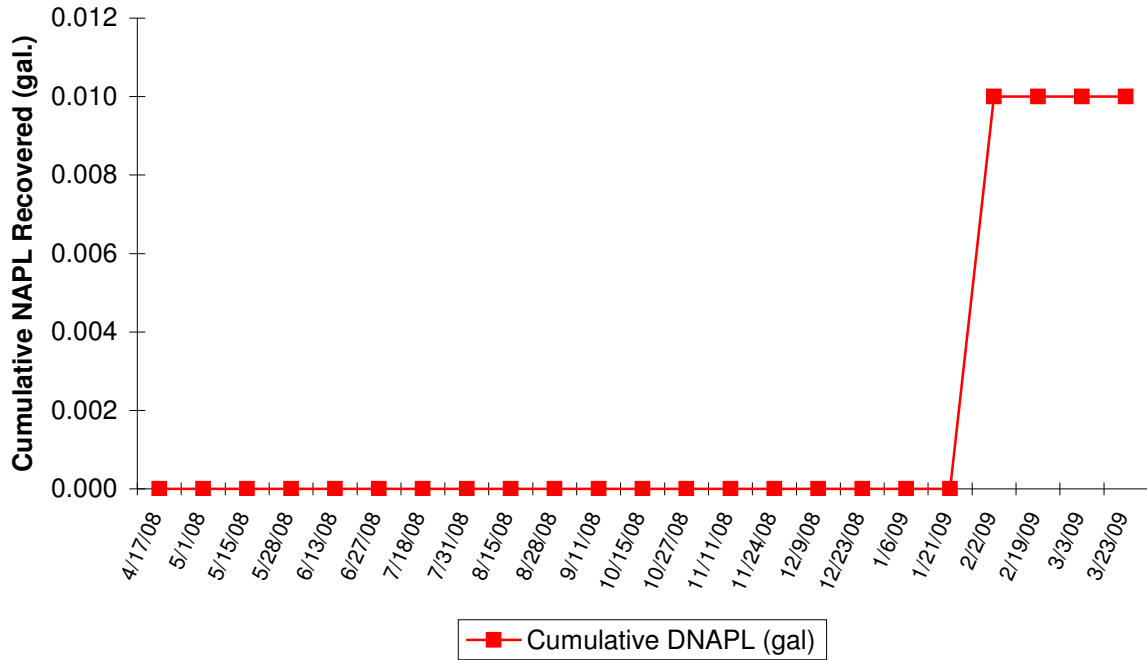


FIGURE 8T
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

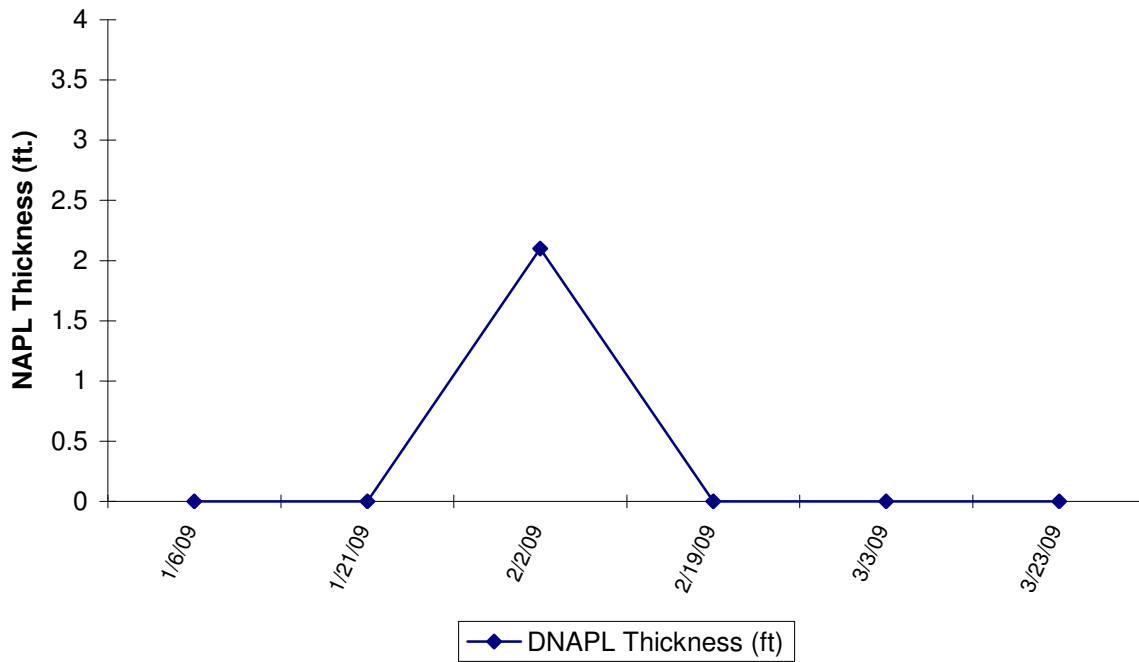
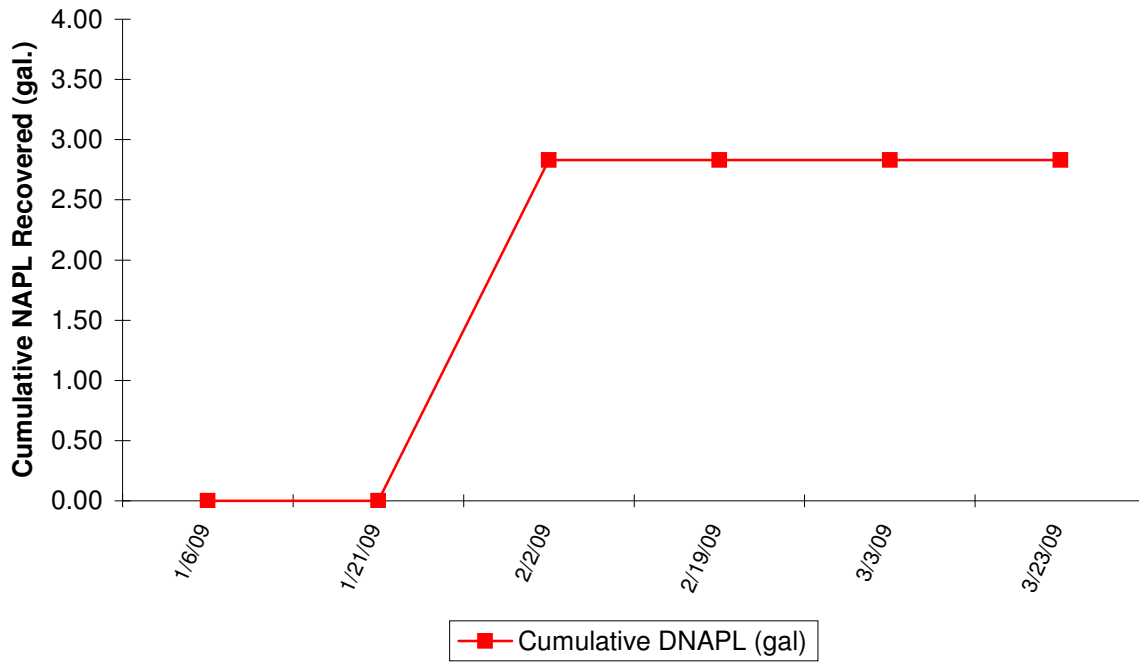


FIGURE 8U
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

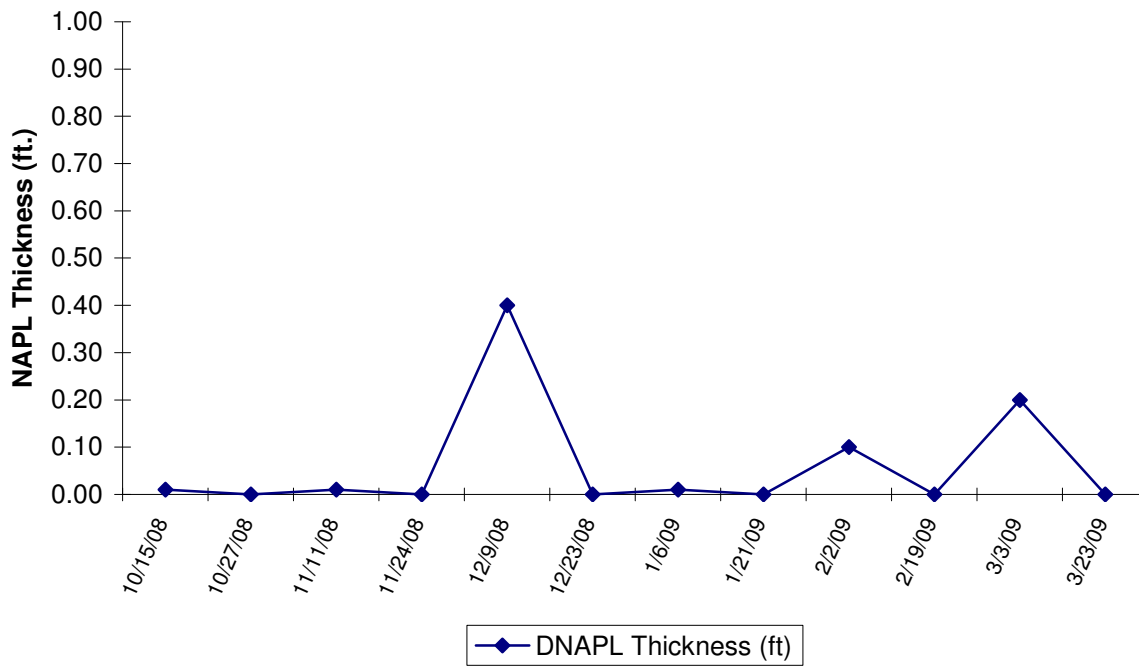
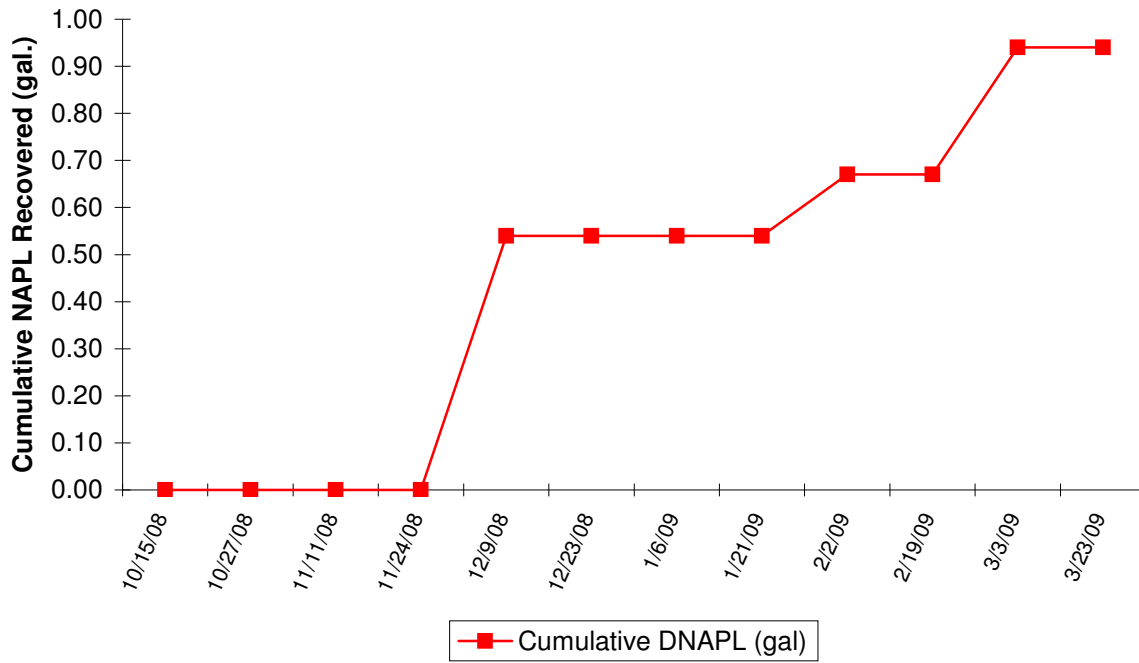


FIGURE 8V
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

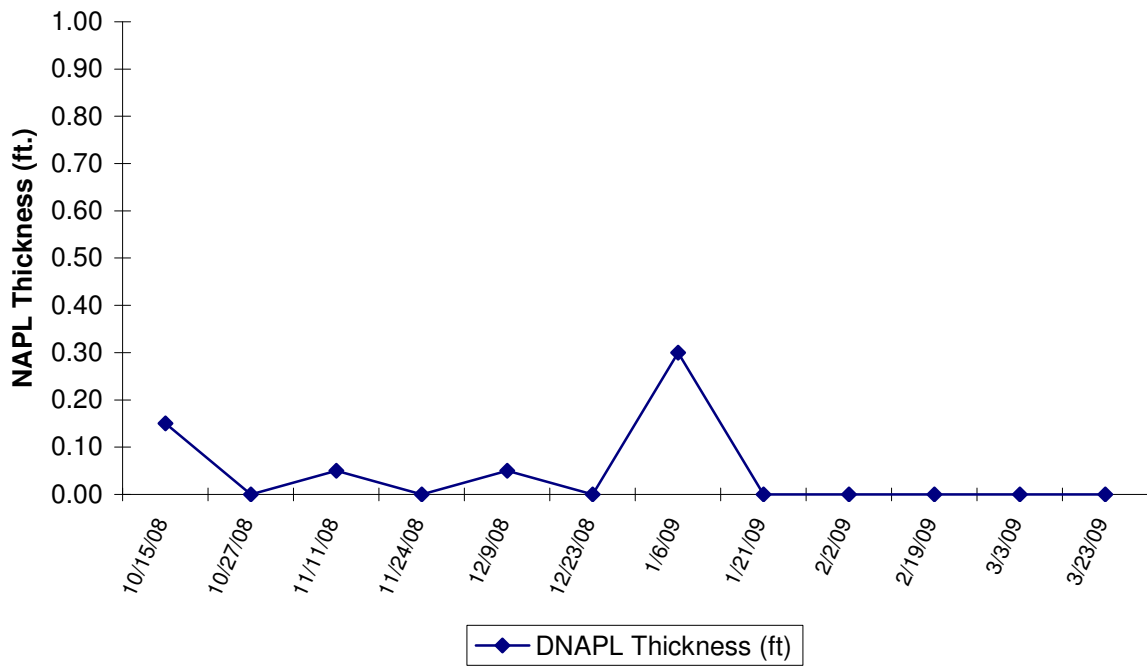
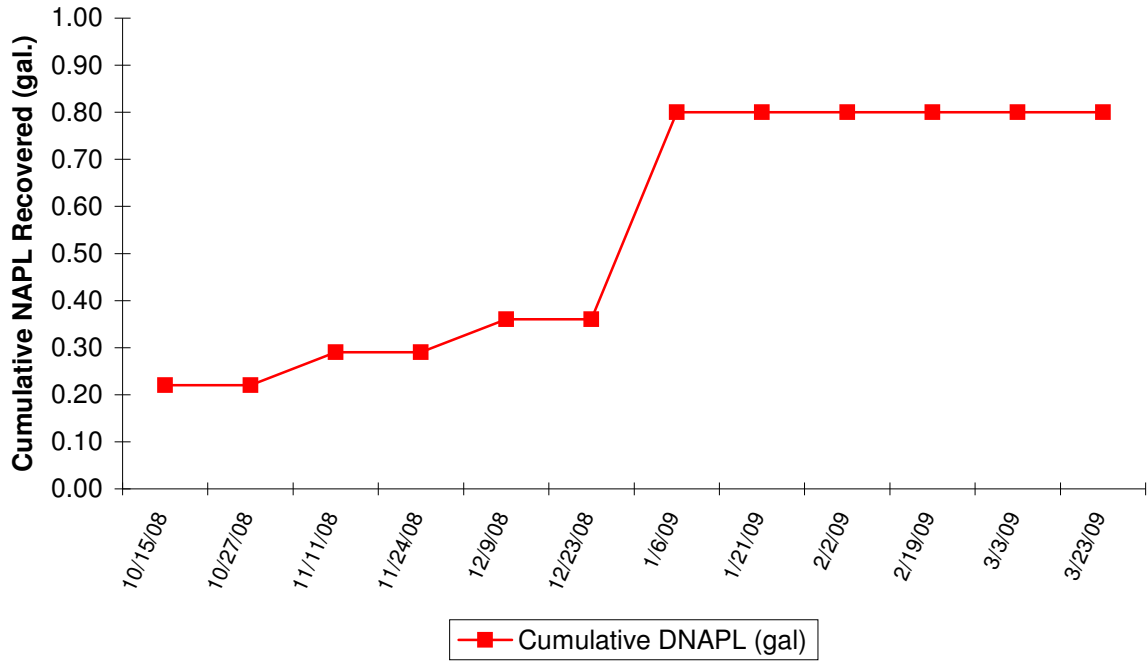


FIGURE 8W
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

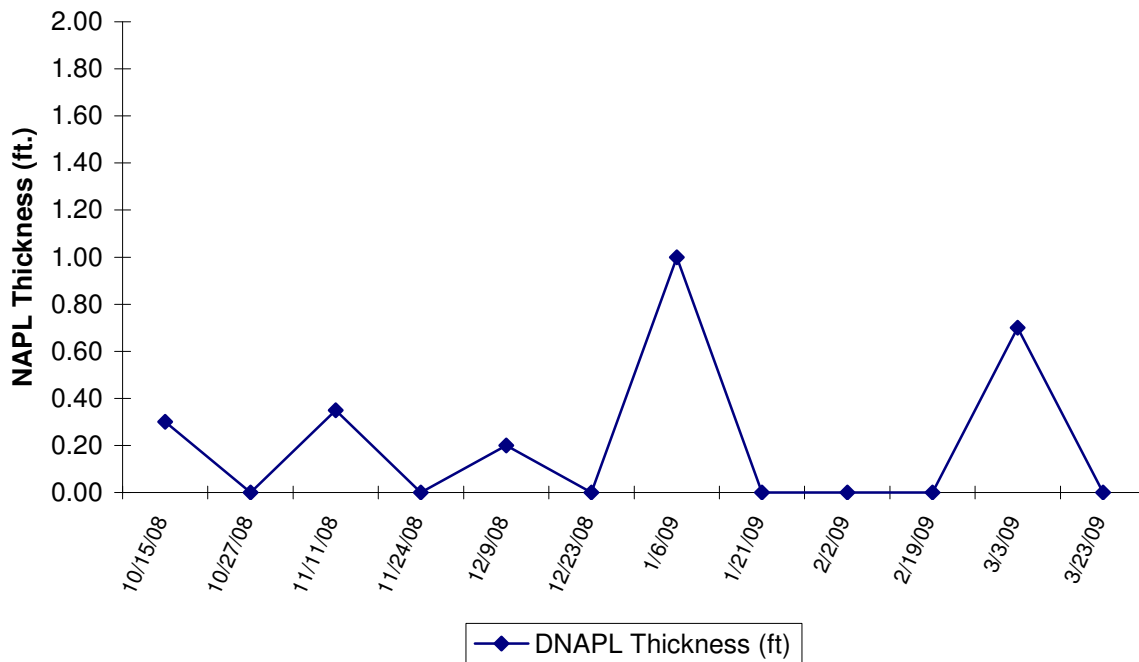
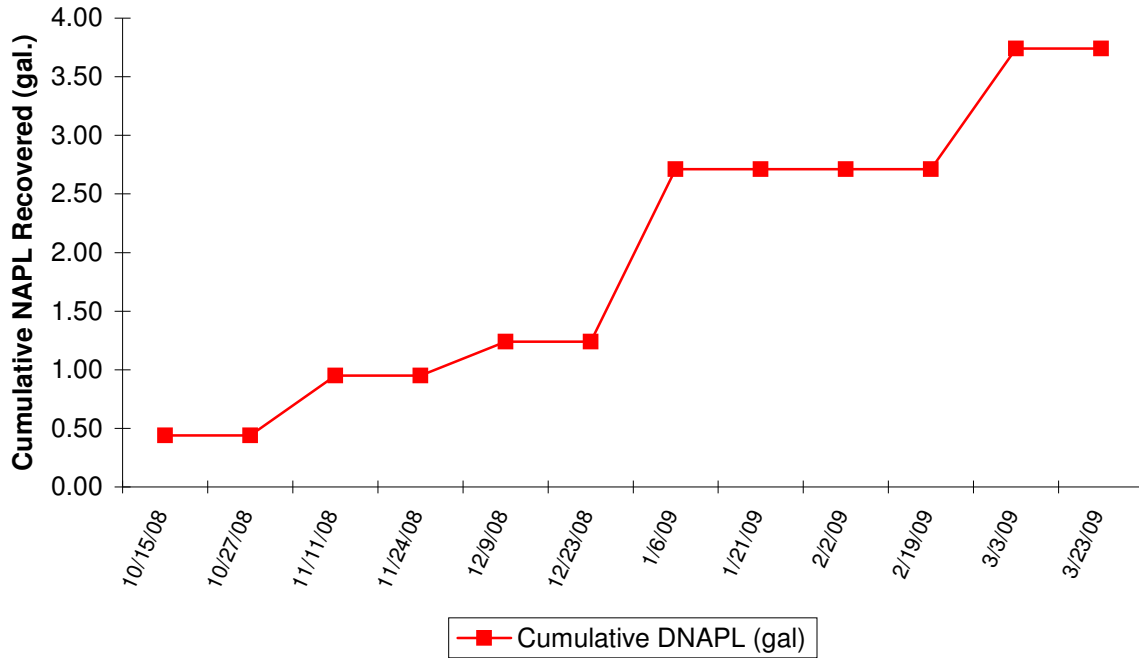


FIGURE 8X
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

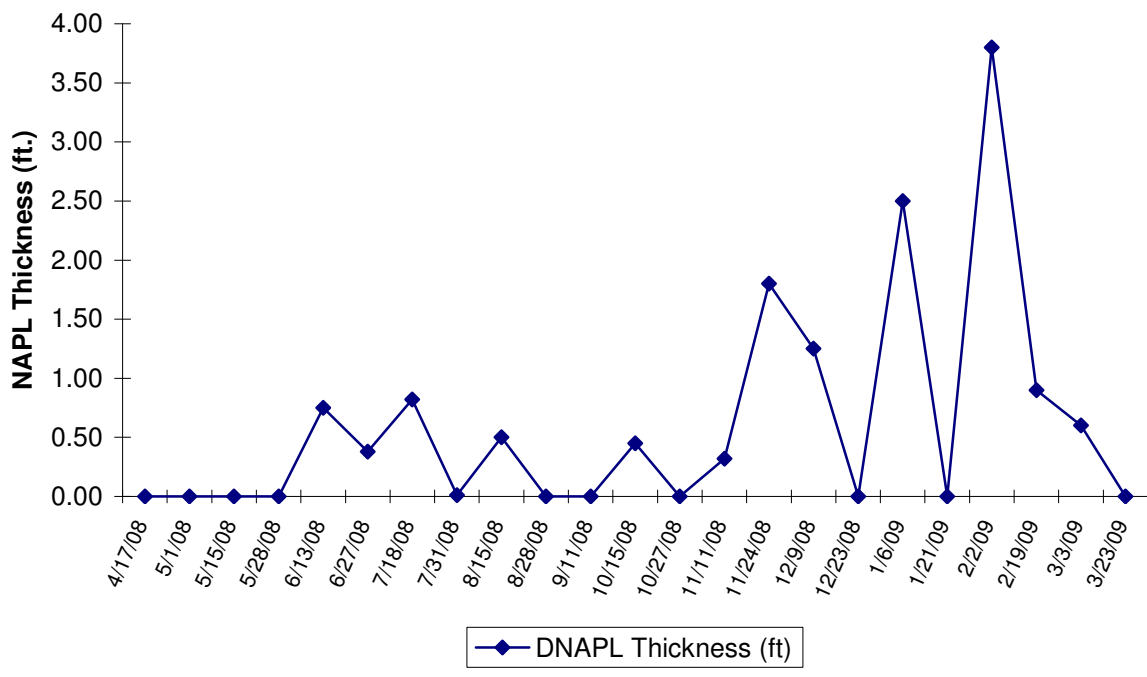
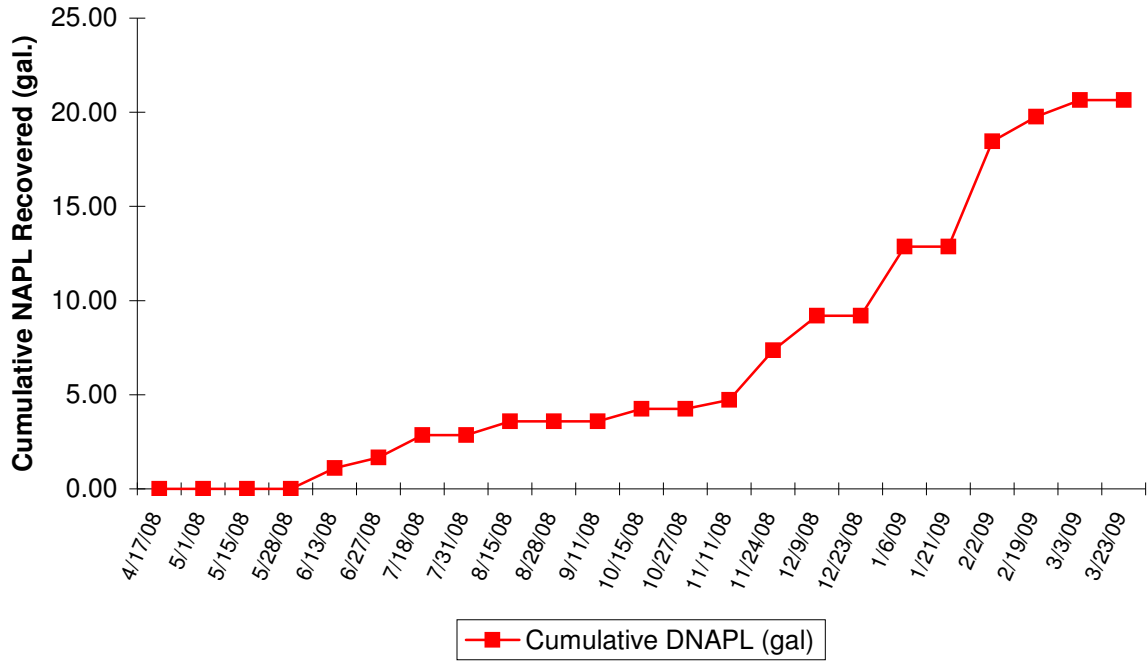


FIGURE 8Y
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

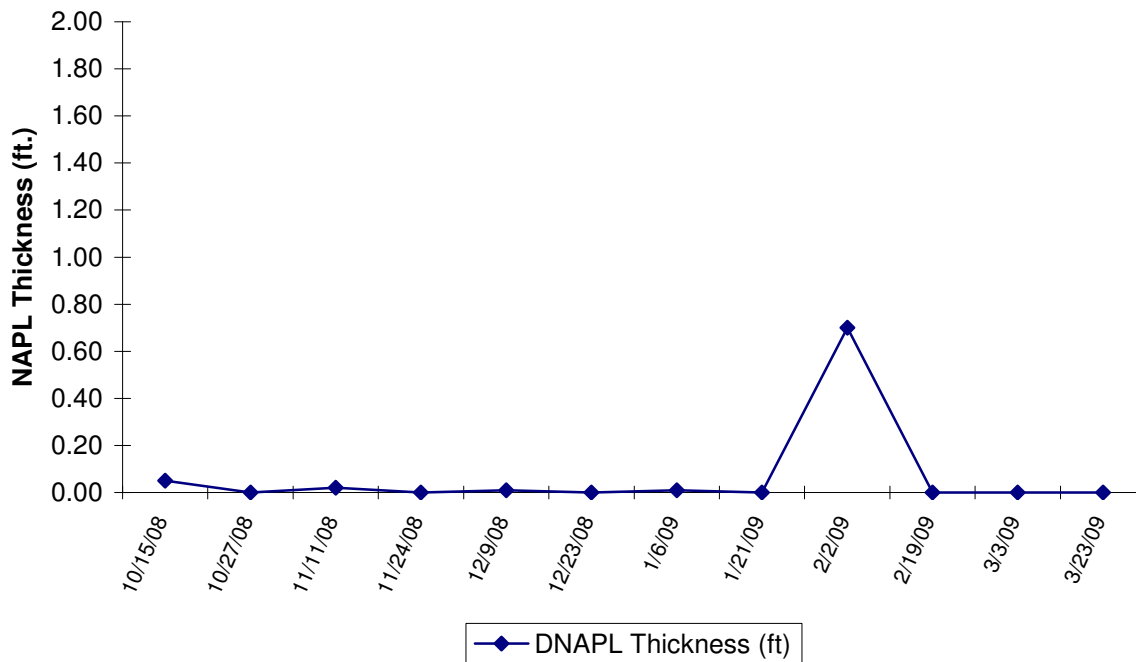
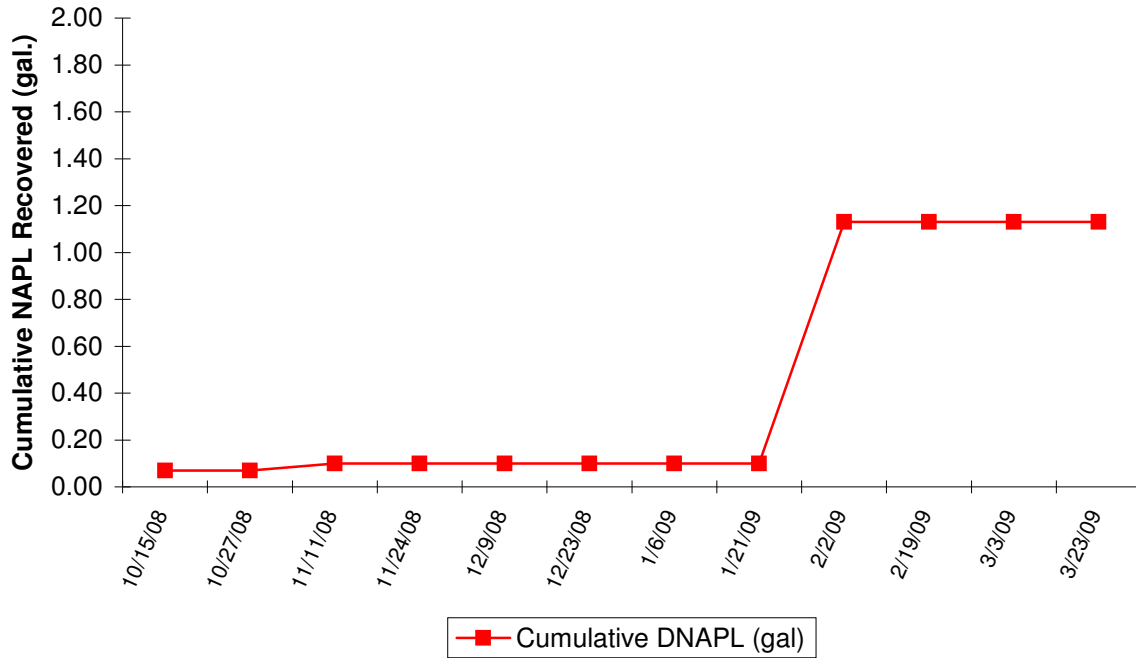
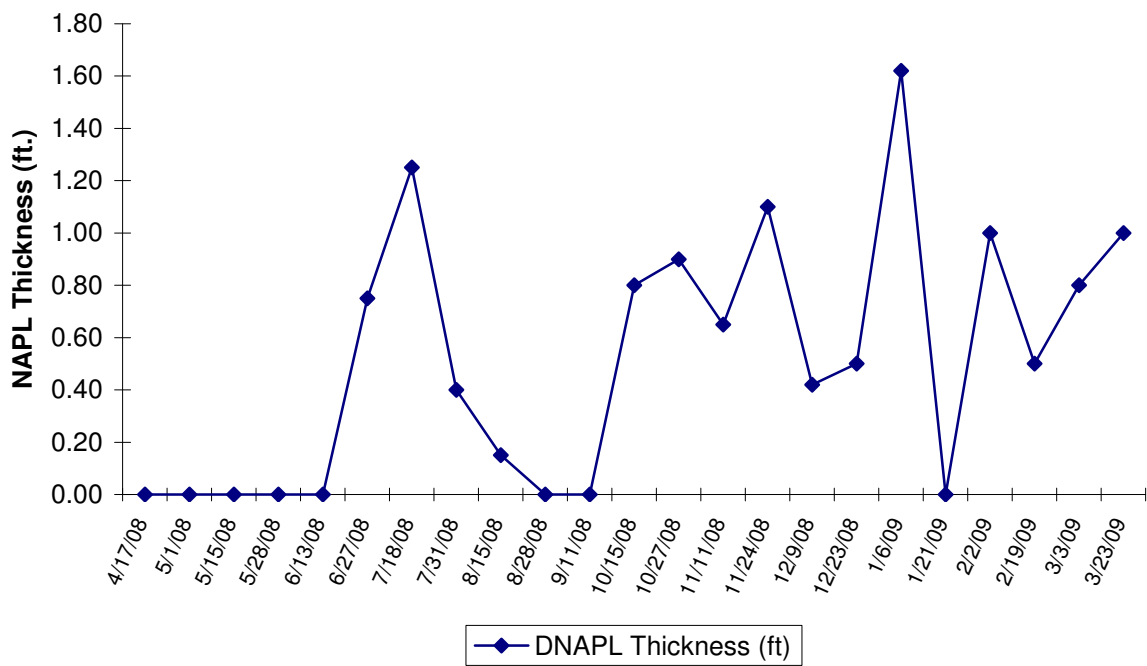
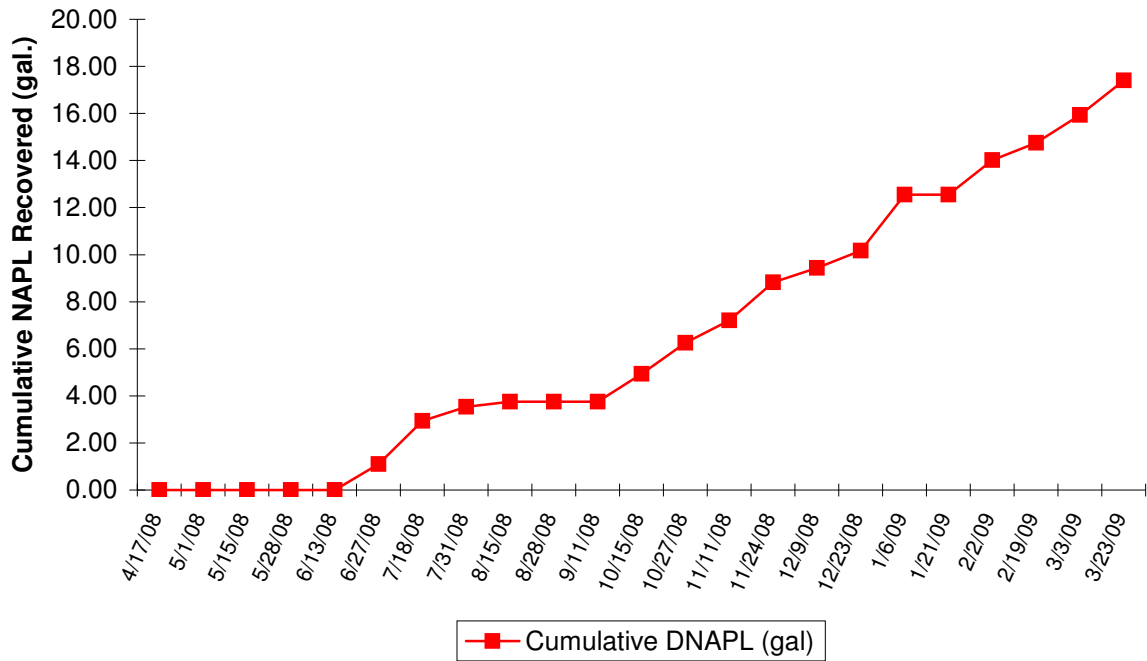


FIGURE 8Z
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



ATTACHMENT A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

**ATTACHMENT A
DATA USABILITY SUMMARY REPORT
FIRST QUARTER 2009**

**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**

MAY 2009

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Appendix A	Validated Form I's
Appendix B	Support Documentation

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 nineteen (19) groundwater samples, two (2) field duplicates, one (1) matrix spike/matrix spike duplicate (MS/MSD) pair, one (1) equipment rinsate blank, and four (4) trip blanks collected by URS personnel from January 9 to 20, 2009 are discussed in this DUSR. The samples were collected as part of the first quarter 2009 groundwater monitoring event at the Hempstead Intersection Street Former MGP Site.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

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

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

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

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

Qualifications applied to the data include 'U' (not detected), '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 I's) are presented in Appendix A. Documentation supporting the qualification of data 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 instances.

- The matrix code was not documented on the COCs.
- The one 1-liter amber bottle for groundwater sample HIMW-14D had a cracked cap because the sample froze. The laboratory transferred the sample to a new 1-liter amber bottle. The spare 1-liter amber bottle was partially frozen, but intact. This sample was analyzed for PAHs as requested on the COC, with no PAHs being detected, which is in agreement with historical data.
- Both 1-liter amber bottles for groundwater sample HIMW-03D were partially frozen, but intact. This groundwater sample was analyzed for PAHs as requested on the COC, with no PAHs being detected, which is in general agreement with historical data. The last time PAHs were detected in this sample was during the first quarter 2008 sampling event.
- For groundwater sample HIMW-05S and accompanying trip blank, 1 of 2 BTEX vials were received at the laboratory with headspace (i.e., 3.5 mm and 15 mm in size, respectively). The laboratory analyzed the vials that did not exhibit headspace.
- The collection time for groundwater sample HIMW-15D-MS/MSD was incorrectly documented on the COC. The laboratory manually revised the COC so that the collection time of the MS/MSD matched that of the parent sample.

- The laboratory received only one BTEX vial for the trip blank associated with samples collected on January 19-20, 2009. There were no QC issues associated with the BTEX analysis of the trip blank, hence, a second vial was not necessary.

Since the above referenced COC non-conformances have no significant impact on the data, no further data qualification was necessary.

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

For PAH analyses, the initial calibration (ICAL) average percent relative standard deviation (%RSD) associated with the following groundwater samples, was greater than 15% for phenanthrene and benzo(k)fluoranthene: HIMW-05I, HIMW-12I, HIMW-13I, HIMW-14I (and field duplicate DUP-01), and HIMW-15I (and field duplicate DUP-02). The phenanthrene and benzo(k)fluoranthene results for these samples were qualified 'J'.

Documentation supporting the qualification of data (i.e., Form 6) 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 below the quantitation limits were qualified 'J' by the laboratory. The results reported from secondary dilution analyses were qualified 'D' by the laboratory.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'J' (estimated) or 'UJ' (estimated quantitation limit) are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: Peter R. Fairbanks, Sr. Project Chemist ^{RF}

Date: 5/29/09

Reviewed By: Mary E. Bitka, Principal Chemist ^{MB}
_{for}

Date: 5/29/09

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

Location ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Sample ID			HIMW-3D	HIMW-3I	HIMW-3S	HIMW-5D	HIMW-5I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/09/09	01/15/09	01/15/09	01/20/09	01/16/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	1 U	1 U	1 U	4
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	2
Toluene	UG/L	5	1 U	9	1 U	4	13
Xylene (total)	UG/L	5	1 U	4	1 U	44	170
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	15	370 DJ
Acenaphthene	UG/L	20	10 U	10 U	10 U	10 U	10
Acenaphthylene	UG/L	-	10 U	10 U	10 U	6 J	160 DJ
Anthracene	UG/L	50	10 U	10 U	10 U	10 U	2 J
Benzo(a)anthracene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	ND	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0.002	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	0.002	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	0.002	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	50	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	50	10 U	10 U	10 U	10 U	18
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10	10 U	10 U	10 U	32	1,800 D
Phenanthrene	UG/L	50	10 U	10 U	10 U	10 U	14 J
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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. R - The data is rejected.

Made By_PRF 04/28/09_ Checked By AMK 4/29/09


Detection Limits shown are PQL

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

Location ID			HIMW-005S	HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012D
Sample ID			HIMW-5S	HIMW-8D	HIMW-8I	HIMW-8S	HIMW-12D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/16/09	01/19/09	01/19/09	01/19/09	01/13/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	1 U	1 U	1 U	1
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	5	1 U	1 U	1 U	5	1 U
Xylene (total)	UG/L	5	1 U	1 U	1 U	2	1 U
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	20	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	ND	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0.002	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	0.002	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	0.002	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	50	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.


Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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

D - Result reported from a secondary dilution analysis. R - The data is rejected.

Made By: PRF 04/28/09; Checked By: 

Detection Limits shown are PQL

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

Location ID			HIMW-012I	HIMW-012S	HIMW-013D	HIMW-013I	HIMW-013S
Sample ID			HIMW-12I	HIMW-12S	HIMW-13D	HIMW-13I	HIMW-13S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/12/09	01/12/09	01/13/09	01/12/09	01/12/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Benzene	UG/L	1	41	1	4	38	1 U
Ethylbenzene	UG/L	5	3	1 U	1 U	1 U	1 U
Toluene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	5	9	10	3	7	1 U
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	20	30	10 U	3 J	6 J	10 U
Acenaphthylene	UG/L	-	37	10 U	6 J	46	10 U
Anthracene	UG/L	50	10 U	10 U	10 U	2 J	10 U
Benzo(a)anthracene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	ND	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0.002	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	0.002	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	0.002	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	50	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	50	22	10 U	10 U	13	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10	3 J	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	50	8 J	10 U	10 U	13 J	10 U
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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. R - The data is rejected.

Made By_PRF 04/28/09; Checked By: *[Signature]*

Detection Limits shown are PQL

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

Location ID			HIMW-014D	HIMW-014I	HIMW-014I	HIMW-015D	HIMW-015I
Sample ID			HIMW-14D	DUP-01	HIMW-14I	HIMW-15D	DUP-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/09/09	01/13/09	01/13/09	01/14/09	01/14/09
Parameter	Units	Criteria*		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	72	74	7	13
Ethylbenzene	UG/L	5	1 U	17	19	3	1
Toluene	UG/L	5	1 U	1 U	1 U	48	8
Xylene (total)	UG/L	5	1 U	7	8	12	5
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	20	10 U	13	13	10 U	3 J
Acenaphthylene	UG/L	-	10 U	19	19	10 U	12
Anthracene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	ND	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	0.002	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	0.002	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	0.002	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	50	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	50	10 U	6 J	7 J	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10	10 U	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	50	10 U	5 J	6 J	10 U	2 J
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

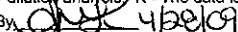
Flags assigned during chemistry validation are shown.

 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. R - The data is rejected.

Made By: PRF 04/28/09; Checked By: 

Detection Limits shown are PQL

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

Location ID		HIMW-0151	
Sample ID		HIMW-151	
Matrix		Groundwater	
Depth Interval (ft)		-	
Date Sampled		01/14/09	
Parameter	Units	Criteria*	
Volatile Organic Compounds			
Benzene	UG/L	1	14
Ethylbenzene	UG/L	5	1
Toluene	UG/L	5	9
Xylene (total)	UG/L	5	7
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/L	-	10 U
Acenaphthene	UG/L	20	3 J
Acenaphthylene	UG/L	-	13
Anthracene	UG/L	50	10 U
Benzo(a)anthracene	UG/L	0.002	10 U
Benzo(a)pyrene	UG/L	ND	10 U
Benzo(b)fluoranthene	UG/L	0.002	10 U
Benzo(g,h,i)perylene	UG/L	-	10 U
Benzo(k)fluoranthene	UG/L	0.002	10 U
Chrysene	UG/L	0.002	10 U
Dibenz(a,h)anthracene	UG/L	-	10 U
Fluoranthene	UG/L	50	10 U
Fluorene	UG/L	50	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U
Naphthalene	UG/L	10	10 U
Phenanthrene	UG/L	50	2 J
Pyrene	UG/L	50	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

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. R - The data is rejected.

Made By_PRF 04/28/09; Checked By Chick 4/28/09

Detection Limits shown are PQL

[LOGDATE] BETWEEN #01/09/2009# AND #01/20/2009# AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [MATRIX] = 'WG' AND [LOCID] NOT LIKE 'HISB' AND [FARNAME] <> 'Alkalinity, Total (as CaCO3)

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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			TRIP BLANK 1/13	20090114-TB-1	TRIP BLANK 1/14	20090115-TB-1	FIELD BLANK
Matrix			Water Quality	Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-	-	-
Date Sampled			01/09/09	01/14/09	01/14/09	01/15/09	01/15/09
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Field Blank (1-1)
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	10 U	1 U	10 U	1 U
Ethylbenzene	UG/L	5	1 U	10 U	1 U	10 U	1 U
Toluene	UG/L	5	1 U	10 U	1 U	10 U	1 U
Xylene (total)	UG/L	5	1 U	10 U	1 U	10 U	1 U
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	NA	NA	NA	NA	10 U
Acenaphthene	UG/L	20	NA	NA	NA	NA	10 U
Acenaphthylene	UG/L	-	NA	NA	NA	NA	10 U
Anthracene	UG/L	50	NA	NA	NA	NA	10 U
Benzo(a)anthracene	UG/L	0.002	NA	NA	NA	NA	10 U
Benzo(a)pyrene	UG/L	ND	NA	NA	NA	NA	10 U
Benzo(b)fluoranthene	UG/L	0.002	NA	NA	NA	NA	10 U
Benzo(g,h,i)perylene	UG/L	-	NA	NA	NA	NA	10 U
Benzo(k)fluoranthene	UG/L	0.002	NA	NA	NA	NA	10 U
Chrysene	UG/L	0.002	NA	NA	NA	NA	10 U
Dibenz(a,h)anthracene	UG/L	-	NA	NA	NA	NA	10 U
Fluoranthene	UG/L	50	NA	NA	NA	NA	10 U
Fluorene	UG/L	50	NA	NA	NA	NA	10 U
Indeno(1,2,3-cd)pyrene	UG/L	0.002	NA	NA	NA	NA	10 U
Naphthalene	UG/L	10	NA	NA	NA	NA	10 U
Phenanthrene	UG/L	50	NA	NA	NA	NA	10 U
Pyrene	UG/L	50	NA	NA	NA	NA	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit

Made By_PRF 04/28/09_ Checked By *QUS 4/28/09*


Detection Limits shown are PQL

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

Location ID			FIELDQC	FIELDQC
Sample ID			TRIP BLANK 1/16	TRIP BLANK 1/19
Matrix			Water Quality	Water Quality
Depth Interval (ft)			-	-
Date Sampled			01/16/09	01/19/09
Parameter	Units	Criteria*	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Benzene	UG/L	1	1 U	1 U
Ethylbenzene	UG/L	5	1 U	1 U
Toluene	UG/L	5	1 U	1 U
Xylene (total)	UG/L	5	1 U	1 U
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/L	-	NA	NA
Acenaphthene	UG/L	20	NA	NA
Acenaphthylene	UG/L	-	NA	NA
Anthracene	UG/L	50	NA	NA
Benzo(a)anthracene	UG/L	0.002	NA	NA
Benzo(a)pyrene	UG/L	ND	NA	NA
Benzo(b)fluoranthene	UG/L	0.002	NA	NA
Benzo(g,h,i)perylene	UG/L	-	NA	NA
Benzo(k)fluoranthene	UG/L	0.002	NA	NA
Chrysene	UG/L	0.002	NA	NA
Dibenz(a,h)anthracene	UG/L	-	NA	NA
Fluoranthene	UG/L	50	NA	NA
Fluorene	UG/L	50	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	0.002	NA	NA
Naphthalene	UG/L	10	NA	NA
Phenanthrene	UG/L	50	NA	NA
Pyrene	UG/L	50	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit

Made By_PRF 04/28/09_; Checked By: *QJG 4/28/09*

Detection Limits shown are PQL

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.

APPENDIX A

VALIDATED FORM I'S

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3D

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901376-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A62985.D
 Level: (low/med) LOW Date Received: 01/13/09
 % Moisture: not dec. Date Analyzed: 01/15/09
 GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057Matrix: (soil/water) WATERLab Sample ID: 0901376-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44570.DLevel: (low/med) LOWDate Received: 01/13/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/14/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/15/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEFF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A

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-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901376-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A62986.D

Level: (low/med) LOW Date Received: 01/13/09

% Moisture: not dec. Date Analyzed: 01/15/09

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	41	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	9	

1C
SEMIVOLATILE 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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901376-002B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44571.D

Level: (low/med) LOW

Date Received: 01/13/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/14/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/15/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
91-20-3	Naphthalene	3		J
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	37		
83-32-9	Acenaphthene	30		
86-73-7	Fluorene	22		
85-01-8	Phenanthrene	8		J
120-12-7	Anthracene	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo(a)anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
50-32-8	Benzo(a)pyrene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
53-70-3	Dibenzo(a,h)anthracene	10		U
191-24-2	Benzo(g,h,i)perylene	10		U

(1) Cannot be separated from Diphenylamine

3/2/09
2

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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901376-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A62987.D
 Level: (low/med) LOW Date Received: 01/13/09
 % Moisture: not dec. Date Analyzed: 01/15/09
 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) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	1	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	10	

1C
SEMIVOLATILE 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-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901376-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C44572.D

Level: (low/med) LOW Date Received: 01/13/09

% Moisture: Decanted: (Y/N) N Date Extracted: 01/14/09

Concentrated Extract Volume: 1000 (μ L) Date Analyzed: 01/15/09

Injection Volume: 2 (μ L) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901376-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A62988.D
 Level: (low/med) LOW Date Received: 01/13/09
 % Moisture: not dec. Date Analyzed: 01/15/09
 GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/Kg) UG/L	Q
71-43-2	Benzene	38	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	7	

1C
SEMIVOLATILE 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-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901376-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C44573.D

Level: (low/med) LOW Date Received: 01/13/09

% Moisture: Decanted: (Y/N) N Date Extracted: 01/14/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 01/15/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/kg)	UG/L	Q
91-20-3	Naphthalene	10		U
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	46		
83-32-9	Acenaphthene	6		J
86-73-7	Fluorene	13		
85-01-8	Phenanthrene	13		J
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
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

3/2/09

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901376-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63033.D

Level: (low/med) LOW Date Received: 01/13/09

% Moisture: not dec. Date Analyzed: 01/17/09

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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901376-005B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44574.D

Level: (low/med) LOW

Date Received: 01/13/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/14/09

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 01/16/09

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901376-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63034.D
 Level: (low/med) LOW Date Received: 01/13/09
 % Moisture: not dec. Date Analyzed: 01/17/09
 GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (μ L) Soil Aliquot Volume _____ (μ L)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	<u>Q</u>
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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901376-006B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44579.D

Level: (low/med) LOW

Date Received: 01/13/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/14/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/16/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1/13

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901376-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63042.D

Level: (low/med) LOW Date Received: 01/13/09

% Moisture: not dec. Date Analyzed: 01/17/09

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

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

CONCENTRATION UNITS:

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63046.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/17/09
 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
71-43-2	Benzene	72	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	17	
1330-20-7	Xylene (total)	7	

KEY-URS057 V57 Revised CLG 17-Mar-09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-01

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901441-001B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44587.D

Level: (low/med) LOW

Date Received: 01/14/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/15/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/16/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	19	
83-32-9	Acenaphthene	13	
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	5	13
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

3/2/09
2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-02

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63047.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/17/09
 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	13	
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	5	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-02

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901441-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C44588.D

Level: (low/med) LOW Date Received: 01/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 01/15/09

Concentrated Extract Volume: 1000 (μL) Date Analyzed: 01/16/09

Injection Volume: 2 (μL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

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-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901441-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63048.D

Level: (low/med) LOW Date Received: 01/14/09

% Moisture: not dec. Date Analyzed: 01/17/09

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

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

CONCENTRATION UNITS:

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

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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901441-003B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44589.D

Level: (low/med) LOW

Date Received: 01/14/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/15/09

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 01/16/09

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63049.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/17/09
 GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057Matrix: (soil/water) WATERLab Sample ID: 0901441-004BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44590.DLevel: (low/med) LOWDate Received: 01/14/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/15/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/16/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEFF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/kg) UG/L	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	6	J
83-32-9	Acenaphthene	3	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

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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63065.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/19/09
 GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (μL) Soil Aliquot Volume _____ (μL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μg/L or μg/kg) UG/L	Q
71-43-2	Benzene	74	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	19	
1330-20-7	Xylene (total)	8	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-14I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057Matrix: (soil/water) WATERLab Sample ID: 0901441-005BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44591.DLevel: (low/med) LOWDate Received: 01/14/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/15/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/16/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	19	
83-32-9	Acenaphthene	13	
86-73-7	Fluorene	7	J
85-01-8	Phenanthrene	6	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63073.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/19/09
 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	7	
108-88-3	Toluene	48	
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene (total)	12	

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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901441-006E

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44592.D

Level: (low/med) LOW

Date Received: 01/14/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/15/09

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 01/16/09

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(μ g/L or μ g/Kg) <u>UG/L</u>	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

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS057

Matrix: (soil/water)

WATERLab Sample ID: 0901441-007ASample wt/vol: 5(g/mL) MLLab File ID: A\A63074.D

Level: (low/med)

LOWDate Received: 01/14/09

% Moisture: not dec.

Date Analyzed: 01/20/09GC Column: ZB-624ID: .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
71-43-2	Benzene	14	Q
108-88-3	Toluene	9	
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene (total)	7	

1C
SEMIVOLATILE 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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901441-007B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44595.D

Level: (low/med) LOW

Date Received: 01/14/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/15/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/16/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
91-20-3	Naphthalene	10		U
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	13		
83-32-9	Acenaphthene	3		J
86-73-7	Fluorene	10		U
85-01-8	Phenanthrene	2		J
120-12-7	Anthracene	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo(a)anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
50-32-8	Benzo(a)pyrene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
53-70-3	Dibenzo(a,h)anthracene	10		U
191-24-2	Benzo(g,h,i)perylene	10		U

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1/14

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901441-008A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63066.D
 Level: (low/med) LOW Date Received: 01/14/09
 % Moisture: not dec. Date Analyzed: 01/19/09
 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-URS057 V95 Revised CLG 17-Mar-09

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901481-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63067.D
 Level: (low/med) LOW Date Received: 01/16/09
 % Moisture: not dec. Date Analyzed: 01/19/09
 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
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-URS057 V97 Revised CLG 17-Mar-09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901481-001B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44613:D

Level: (low/med) LOW

Date Received: 01/16/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/19/09

Concentrated Extract Volume: 1000 (μL)

Date Analyzed: 01/19/09

Injection Volume: 2 (μL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3I

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901481-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63075.D
 Level: (low/med) LOW Date Received: 01/16/09
 % Moisture: not dec. Date Analyzed: 01/20/09
 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
71-43-2	Benzene	1	U
108-88-3	Toluene	9	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	4	

KEY-URS057 V100 Revised CLG 17-Mar-09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901481-002E

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44614.D

Level: (low/med) LOW

Date Received: 01/16/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/19/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/19/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-3S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057

Matrix: (soil/water) WATER Lab Sample ID: 0901481-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63076.D

Level: (low/med) LOW Date Received: 01/16/09

% Moisture: not dec. Date Analyzed: 01/20/09

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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057Matrix: (soil/water) WATERLab Sample ID: 0901481-003BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44615.DLevel: (low/med) LOWDate Received: 01/16/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/19/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/19/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
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-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901481-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63077.D
 Level: (low/med) LOW Date Received: 01/16/09
 % Moisture: not dec. Date Analyzed: 01/20/09
 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	4	
108-88-3	Toluene	13	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene (total)	170	

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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901481-004B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44616.D

Level: (low/med) LOW

Date Received: 01/16/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/19/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/19/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
91-20-3	Naphthalene	1800 1200		E D
91-57-6	2-Methylnaphthalene	370 240		E D J
208-96-8	Acenaphthylene	160 120		E D J
83-32-9	Acenaphthene		10	
86-73-7	Fluorene		18	
85-01-8	Phenanthrene		14	J
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
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

3/2/09
e

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-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901481-004BDL

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44629.D

Level: (low/med) LOW

Date Received: 01/16/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/19/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/20/09

Injection Volume: 2 (µL)

Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg)	UG/L	Q
91-20-3	Naphthalene	1800		D
91-57-6	2-Methylnaphthalene	370		DJ
208-96-8	Acenaphthylene	160		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

3/2/09
2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901481-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63078.D
 Level: (low/med) LOW Date Received: 01/16/09
 % Moisture: not dec. Date Analyzed: 01/20/09
 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-URS057 V114 Revised CLG 17-Mar-09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS057

Matrix: (soil/water) WATER

Lab Sample ID: 0901481-005B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44617.D

Level: (low/med) LOW

Date Received: 01/16/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/19/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/19/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1/16

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS057
 Matrix: (soil/water) WATER Lab Sample ID: 0901481-006A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63068.D
 Level: (low/med) LOW Date Received: 01/16/09
 % Moisture: not dec. Date Analyzed: 01/19/09
 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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS059

Matrix: (soil/water) WATER Lab Sample ID: 0901560-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63267.D

Level: (low/med) LOW Date Received: 01/20/09

% Moisture: not dec. Date Analyzed: 02/01/09

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	4	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	44	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS059Matrix: (soil/water) WATERLab Sample ID: 0901560-001BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44692.DLevel: (low/med) LOWDate Received: 01/20/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/21/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/23/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
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-URS059
 Matrix: (soil/water) WATER Lab Sample ID: 0901560-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63268.D
 Level: (low/med) LOW Date Received: 01/20/09
 % Moisture: not dec. Date Analyzed: 02/01/09
 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) <u>UG/L</u>	<u>Q</u>
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

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS059Matrix: (soil/water) WATERLab Sample ID: 0901560-002BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C44693.DLevel: (low/med) LOWDate Received: 01/20/09% Moisture: Decanted: (Y/N) NDate Extracted: 01/21/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 01/23/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS059

Matrix: (soil/water) WATER Lab Sample ID: 0901560-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63269.D

Level: (low/med) LOW Date Received: 01/20/09

% Moisture: not dec. Date Analyzed: 02/01/09

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
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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS059

Matrix: (soil/water) WATER

Lab Sample ID: 0901560-003B

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: A\C44694.D

Level: (low/med) LOW

Date Received: 01/20/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 01/21/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 01/23/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

Extraction: (Type) SEPF

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS059
 Matrix: (soil/water) WATER Lab Sample ID: 0901560-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63270.D
 Level: (low/med) LOW Date Received: 01/20/09
 % Moisture: not dec. Date Analyzed: 02/01/09
 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
71-43-2	Benzene	1	U
108-88-3	Toluene	5	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	2	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS059

Matrix: (soil/water) WATER Lab Sample ID: 0901560-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C44695.D

Level: (low/med) LOW Date Received: 01/20/09

% Moisture: Decanted: (Y/N) N Date Extracted: 01/21/09

Concentrated Extract Volume: 1000 (μL) Date Analyzed: 01/23/09

Injection Volume: 2 (μL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 1/19

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS059
 Matrix: (soil/water) WATER Lab Sample ID: 0901560-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A63266.D
 Level: (low/med) LOW Date Received: 01/20/09
 % Moisture: not dec. Date Analyzed: 02/01/09
 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-URS059 S23

APPENDIX B

SUPPORT DOCUMENTATION

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS SAMPLE(S) RECEIVED: 1/13/09, 1/14/09 & 1/16/09 SDG #: KEY-URS057

For Sample(s):

HIMW-3D	DUP-01	TRIP BLANK 1/14
HIMW-12I	DUP-02	FIELD BLANK
HIMW-12S	HIMW-12D	HIMW-3I
HIMW-13I	HIMW-13D	HIMW-3S
HIMW-13S	HIMW-14I	HIMW-5I
HIMW-14D	HIMW-15D	HIMW-5S
TRIP BLANK 1/13	HIMW-15I	TRIP BLANK 1/16

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

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

Sample HIMW-15D was analyzed as the matrix spike/matrix spike duplicate.

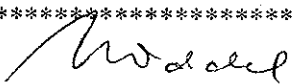
All percent recoveries for the lab fortified blanks and recoveries and RPDs for the MS and MSD were within QC limits.

The data package was revised to include the calibration level of 1 µg/L at the requested reporting 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 5, 2009

Date Revised: March 4, 2009

*  *

Ursula Middel
Technical Manager

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLE RECEIVED: 1/13/09, 1/14/09 & 1/16/09
SDG #: KEY-URS057

For Sample(s):

HIMW-3D	HIMW-13D
HIMW-12I	HIMW-14I
HIMW-12S	HIMW-15D
HIMW-13I	HIMW-15I
HIMW-13S	FIELD BLANK
HIMW-14D	HIMW-3I
DUP-01	HIMW-3S
DUP-02	HIMW-5I
HIMW-12D	HIMW-5S

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-15D was analyzed as the matrix spike / matrix spike duplicate. All percent recoveries and RPD's were met.

Sample HIMW-5I was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. All surrogate recoveries are diluted out in the dilution. Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: January 27, 2009

* * *

* * *

Joann M. Slavin
Senior Vice President

KEY-URS057 A3

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-URS057
 Instrument ID: HP5972 Calibration Dates: 12/25/08 12/25/08
 Heated Purge: (Y/N) N Calibration Times: 15:12 19:15
 GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C44229.D SSTD010= C44230.D SSTD025= C44226.D SSTD040= C44231.D SSTD060= C44232.D
 SSTD080= C44233.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
N-Nitrosodiphenylamine *	0.8455560	0.8686688	0.7227435	0.7909130	0.7384872	0.6822195					0.775	9.4	*
1,2-Diphenylhydrazine	0.8577713	0.8713896	0.7191547	0.7460977	0.7143292	0.7072503					0.769	9.8	
4-Bromophenyl-phenylether	0.3256123	0.3410256	0.2844007	0.2954292	0.2857723	0.2683252					0.300	9.2	
Hexachlorobenzene	0.4397681	0.4437588	0.3716892	0.4093752	0.3920659	0.3556351					0.402	8.9	
Pentachlorophenol *	0	0.2705859	0.2353937	0.2489815	0.2324599	0.2109554					0.240	9.2	*
Phenanthrene	1.394663	1.3800877	1.0822604	1.0752093	1.0310157	0.9520423					1.153	16.3	
Anthracene	1.4103286	1.4412203	1.1692384	1.2504865	1.1809546	1.0655544					1.253	11.7	
Carbazole	1.213517	1.2877095	1.0748577	1.1622846	1.0735697	1.0026954					1.136	9.2	
Benzidine	0.2616974	0.3050736	0.2402016	0.1840505	0.1790898	0.1823235					0.225	23.1	
Di-n-butyl phthalate	1.9915092	1.9812728	1.5988769	1.7041474	1.5628637	1.4277316					1.711	13.5	
Fluoranthene *	1.3131798	1.3804775	1.1134293	1.1851962	1.1126324	1.0248498					1.188	11.3	*
Pyrene	1.5102963	1.5806862	1.3067249	1.4015566	1.4460202	1.4457315					1.449	6.4	
Butyl benzyl phthalate	0.9275142	0.9382773	0.7276827	0.7749119	0.7773884	0.7672331					0.819	11.0	
3,3'-Dichlorobenzidine	0.5173304	0.4966738	0.4484998	0.4218894	0.4270174	0.4292168					0.457	8.9	
Benzo(a)anthracene	1.4690748	1.5305009	1.2627497	1.4300793	1.4418199	1.3682585					1.417	6.5	
Chrysene	1.3364596	1.4320908	1.1661047	1.2190897	1.1751373	1.2274194					1.259	8.3	
Bis(2-ethylhexyl)phthalate	1.3335458	1.3274827	1.0031322	1.0552838	1.0548974	1.0909129					1.144	12.8	
Octachlorocyclopentene	0.280595	0.2963061	0.2754973	0.2398279	0.2009514	0.1902278					0.247	17.9	
Di-n-octyl phthalate *	2.2701725	2.2805358	1.7338906	1.8765054	1.6870587	1.6961917					1.924	14.6	*
Benzo(b)fluoranthene	1.6486243	1.7994902	1.3896573	1.6328469	1.5539327	1.4003463					1.571	10.0	
Benzo(k)fluoranthene	1.3662798	1.3257478	1.0616184	1.0318913	1.0536556	0.8478732					1.115	17.6	
Benzo(a)pyrene *	1.3296873	1.3867184	1.1584301	1.3338638	1.2358412	1.1940515					1.273	7.1	*
Indeno(1,2,3-cd)pyrene	1.5926417	1.7055713	1.4051949	1.6493566	1.4767985	1.3629185					1.532	9.0	

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 1/13/09
SDG #: KEY-URS057

For Samples:

HIMW-12I
HIMW-12S
HIMW-13I
HIMW-12S

Samples were received by H2M Labs, Inc. for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Alkalinity SM2320B

Samples utilized for QC analysis were listed on the QC summary report.

No problems were noted during the analysis of this sample group.

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: January 20, 2009

*
*

Vincent Stancampiano
Vice President

H2M LABS, INC.

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

30065

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER National Grid - Hempstead. 11175065.				CLIENT:										H2M SDG NO: KEY-085057		Project Contact: Kevin Conare.			
				Sample Container Description STEX (SN 82608) PAHS (SN 82700) ALUMINUM										NOTES:		Phone Number: 716.923.1165.			
SAMPLERS: (signature)/Client Joanne Wright } URS. David Swan }																ANALYSIS REQUESTED ORGANIC: VOA, BNA, PAH/PCB INORG: Metal, CN			
DELIVERABLES:				Total No. of Containers										LAB I.D. NO.					
TURNAROUND TIME:				DATE										TIME		MATRIX		FIELD I.D.	
				11/9/09										11:30				HIMW - 3D	
				11/9/09										-				TRIP BLANK	
				11/9/09										15:00				HIMW - 14D	
				11/2/09										10:20				HIMW - 13S	
				11/2/09										12:20				HIMW - 13I	
				11/2/09										2:55				HIMW - 12S	
				11/2/09										4:35				HIMW - 12I	
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 <input type="checkbox"/> or Hand Delivered <input checked="" type="checkbox"/> Airbill# _____ 2. Ambient or chilled, Temp. <u>0.5°C</u> 3. Received in good condition: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 4. Properly preserved: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Tape was: 1. Present on outer package: Y or <input checked="" type="checkbox"/> N 2. Unbroken on outer package: Y or N 3. COC record present & complete upon sample receipt: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

KEY-URS057

Sample Receipt Checklist

Client Name KEY-URS

Date and Time Received: 1/13/2009 3:36:00 PM

Work Order Number 0901376

Received by dmc

Checklist completed by

Signature [Handwritten Signature]

Date 1/13/09

Reviewed by

Initials [Handwritten Initials]

Date 1/14/09

Matrix:

Carrier name Pickup

- Shipping container/cooler in good condition? Yes No Not Applicable
- Custody seals intact on shipping 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: 1/15/09 Person contacted BANNE WRIGHT

Contacted by: [Handwritten Name] Regarding _____

Comments: FOR SAMPLE HIMW-14D; ONE 1L BOTTLE CRACKED DUE TO SAMPLE BEING FROZEN. SPARE BOTTLE FOR HIMW-14D AND BOTH 1L BOTTLES FOR HIMW-3D CONTAINED PARTIAL FROZEN SAMPLES. NO SPARE VIAL RECEIVED FOR TRIP BLANK.

Corrective Action FOR CRACKED BOTTLE, SAMPLE VOLUME WAS TRANSFERRED TO NEW BOTTLE AT LAB.

KEY-URS057 A7

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel: (631) 694-3040 Fax: (631) 420-8436

30069

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER Hempstead - National Grid. 1175065.				CLIENT: URS.				H2M SDG NO: KE-Y-URS 057				Project Contact: Kevin Connors.			
												Phone Number: 716. 923. 1165.			
SAMPLERS: (signature)/Client Joanne Wright } David Swain } URS.				Sample Container Description STEX - (SN 82608) PAHS (SN 82700)				NOTES: Quaternary Groundwater Monitoring				PIS/Quote # 1175065.			
DELIVERABLES:				Total No. of Containers				ANALYSIS REQUESTED							
TURNAROUND TIME:								ORGANIC		INORG.					
DATE	TIME	MATRIX	FIELD I.D.	VOA	BNA	PAHs/PCB	Metal	CN	LAB I.D. NO.		REMARKS:				
11/13/09	10:50		H1mW - 14I.			2 2			09101441 - URS AB						
11/13/09	12:40		H1mW - 13D.			2 2			- 004						
11/13/09	2:10		H1mW - 12D.			2 2			- 003						
11/13/09	11:10		DUP - 01			2 2			- 001						
11/14/09	10:49		DUP - 02			2 2			- 002						
11/14/09	10:35		H1mW - 15I.			2 2			- 007						
11/14/09	12:00		H1mW - 15D.			2 2			- 006						
11/14/09	12:10		MS/MO.			2 2			- ↓						
	12:30		TRIP BLANK.						- 008A						
Relinquished by: (Signature) [Signature]				Date 1-14-09		Time 15:29		Received by: (Signature) S. Watt				Date 1-14-09		Time 15:29	
Relinquished by: (Signature) S. Watt				Date 1-14-09		Time 16:15		Received by: (Signature) [Signature]				Date 1/14/09		Time 16:15	
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 <input type="checkbox"/> or Hand Delivered <input checked="" type="checkbox"/> 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

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist *KEY-URS 057*

Client Name KEY-URS

Date and Time Received: 1/14/2009 4:15:00 PM

Work Order Number 0901441

Received by EM

Checklist completed by *[Signature]* Date *1/14/09*

Reviewed by *JSA* Initials *[Signature]* Date *1/16/09*

Matrix: Carrier name Pickup

- Shipping container/cooler in good condition? Yes No Not Applicable
- Custody seals intact on shipping 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: *1/16/09* Person contacted *DAVID SWAIN*

Contacted by: *JEN ARACRI* Regarding _____

Comments: *MS/MSD (HIMW-150) only had double volume-*

Corrective Action _____

KEY-URS057 A15

H2M LABS, INC.

30068

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076

Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: URS.

H2M SDG NO: KEY-URS057

PROJECT NAME/NUMBER National Grid Hempstead, Project #: 1175065.	Sample Container Description BTEX (SW82608) PAHS (SW82702)	NOTES: Quaternary Groundwater monitoring	Project Contact: Kevin Connors Phone Number: 716.923.1165. PIS/Quote # 1175065.
SAMPLERS: (signature)/Client Joanne Wright } URS. David Swain }			

DELIVERABLES:	Total No. of Containers	ANALYSIS REQUESTED								
TURNAROUND TIME:		ORGANIC			INORG.					
		VQA	BNA	Pest/ PCB			Metal	CN		

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	VQA	BNA	Pest/ PCB				LAB I.D. NO.	REMARKS:
11/15/09	13:00		H111W- 5I 3I	4			2	2			0901481 - 002 AB	
11/15/09	10:25		H111W- 5S 3S	4			2	2			- 003 AB	
			TRIP BLANK.	2							- 006 A	
11/15/09	13:50		FIELD BLANK.	4			2	2			- 001 AB	
11/16/09	12:00		H111W-5I	4			2	2			- 004	
11/16/09	1:15		H111W-5S	4			2	2			- 005	

Relinquished by: (Signature) <i>[Signature]</i>	Date 11/16/09	Time 14:00	Received by: (Signature) <i>[Signature]</i>	Date 1/16/09	Time 14:00	LABORATORY USE ONLY	
Relinquished by: (Signature) <i>[Signature]</i>	Date 1/16/09	Time 2:45	Received by: (Signature) <i>[Signature]</i>	Date 1/16/09	Time 14:45	Discrepancies Between Sample Labels and COC Record? Y or N Explain:	Samples were: 1. Shipped <input type="checkbox"/> or Hand Delivered <input checked="" type="checkbox"/> Airbill# _____ 2. Ambient or chilled, Temp. _____ 3. Received in good condition: <input checked="" type="checkbox"/> Y or N 4. Properly preserved: <input checked="" type="checkbox"/> 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
Relinquished by: (Signature)	Date	Time Dem 11/16/09	Received by: (Signature)	Date	Time Dem 1/16/09		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		

WHITE COPY - ORIGINAL
KEY-URS057 A20

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist *KEY-URS 057*

Client Name KEY-URS

Date and Time Received: 1/16/2009 2:45:00 PM

Work Order Number 0901481

Received by EM

Checklist completed by *[Signature]* Date 1/16/09

Reviewed by *[Signature]* Date 1/19/09

Matrix:

Carrier name Pickup

- Shipping container/cooler in good condition? Yes No Not Applicable
- Custody seals intact on shipping 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 NO Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding DEM 1/16/09

Comments: TB and HIMW-SS each have one vial w/headspace, 15mm and 3.5mm, respectively

Corrective Action USE AS SPARES ONLY

KEY-URS057 A21

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 1/20/09
SDG #: KEY-URS059

For Sample(s):

HIMW-5D HIMW-8S
HIMW-8D TRIP BLANK 1/19
HIMW-81

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

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

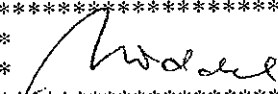
No matrix spike/matrix spike duplicate was submitted. A Lab fortified blank was analyzed. All percent recoveries were within QC limits.

The data package was revised to include the calibration level of 1 µg/L at the requested reporting 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 4, 2009

Date Revised: March 4, 2009

*  *

Ursula Middel
Technical Manager

Revised MTM 05Mar-09

KEY-URS059 A3

H2M LABS, INC.

**SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLE RECEIVED: 1/20/09
SDG #: KEY-URS059**

For Sample(s):

HIMW-5D
HIMW-8D
HIMW-8I
HIMW-8S

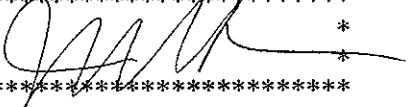
The above sample(s) was/were analyzed for a select list of semivolatile organic analytes (polynuclear aromatics) by EPA method 8270C.

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

No matrix spike / matrix spike duplicate was submitted. Lab fortified blanks were analyzed and indicate good method efficiency.

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: January 29, 2009

*  *
*

Joan M. Slavin
Senior Vice President

KEY-URS059 A4

H2M LABS, INC.

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

30066

EXTERNAL CHAIN OF CUSTODY

059

PROJECT NAME/NUMBER NATIONAL GRID - HEMPSTEAD, 1175065.				CLIENT:				H2M SDG NO: KEY-UPS057/59				NOTES:		Project Contact: <u>DEM 1/24/09</u> KEVIN CONNARE	
														Phone Number: 716.923.1165.	
SAMPLERS: (signature)/Client Joanne Wright } ues. David Swan }				Sample Container Description BTEX (SW82608) PAHS (SW82700)				ANALYSIS REQUESTED				LAB I.D. NO.		REMARKS:	
DELIVERABLES:															
TURNAROUND TIME:				ORGANIC				INORG.							
DATE	TIME	MATRIX	FIELD I.D.	VOA	BNA	pest/PCB									
1/19/09	9:40		HIMW-8S.				2	2					0901560 - 004 AB		
-			TRIP BLANK.										- 005 A		
1/19/09	1:40		HIMW-8I.				2	2					- 003 AB		
1/19/09	11:50		HIMW-8D.				2	2					- 002		
1/20/09	12:40		HIMW-8D.				2	2					- 001 ✓		
Relinquished by: (Signature) <i>Joanne Wright</i>				Date	Time	Received by: (Signature) <i>Kevin Connare</i>				Date	Time	LABORATORY USE ONLY Discrepancies Between Sample Labels and COC Record? Y or N Explain: Samples were: 1. Shipped <input type="checkbox"/> or Hand Delivered <input checked="" type="checkbox"/> 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 _____			
Relinquished by: (Signature) <i>Kevin Connare</i>				Date	Time	Received by: (Signature) <i>Joanne Wright</i>				Date	Time				
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time				
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time				

KEY-UPS059-A6
WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist *KEY-URS 059*

Client Name KEY-URS

Date and Time Received: 1/20/2009 3:40:00 PM

Work Order Number 0901560

Received by EM

Checklist completed by *[Signature]* 1/20/09
Signature Date

Reviewed by *[Initials]* 1/21/09
Initials Date

Matrix: Carrier name Pickup

- Shipping container/cooler in good condition? Yes No Not Applicable
- Custody seals intact on shipping 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 NO Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: The Tap blank had only one vial - no 2 piece.

Corrective Action _____

KEY-URS059 A7