

**Groundwater Sampling and
NAPL Monitoring/Recovery Report
for the Second Quarter of 2009
(April - June 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 SECOND QUARTER OF 2009 (APRIL- JUNE)**

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

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September 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 second quarter (April, May, and June) of 2009.

Groundwater monitoring and sampling was conducted on April 22 to May 1, 2009. This included measuring the depth to groundwater and NAPL thickness in 66 wells. Groundwater samples were collected from 19 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 27 wells during the second 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 5 to 12 gallons per event. Approximately 66 gallons of NAPL were recovered during the second quarter of 2009. Approximately 322 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the second quarter 2009 data and the previous data the concentrations of dissolved phase total BTEX and total PAHs remained stable in the site monitoring wells.

1.0 INTRODUCTION

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

URS Corporation (URS) performed the following activities during the second quarter of 2009:

- Measured the depth to groundwater and NAPL thickness in accessible monitoring wells (April 22, 2009).
- Collected groundwater samples from 19 monitoring wells for laboratory analysis (April 23 to May 1, 2009).
- Recovered NAPL from monitoring wells and piezometers (April 2, April 17, May 4, May 14, May 27, June 11, and June 22, 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, 2008, and 2009, 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 66 monitoring wells.
- Collection of groundwater samples from 19 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 20 wells during 7 events from April to June 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 April 2009, the concentrations of total BTEX or total PAHs in the furthest downgradient well pair (HIMW-015I/D) ranged from “not detected” (deep well, HIMW-15D) to 18 µg/L (intermediate well, HIMW-15I). The concentrations of total BTEX or total PAHs in wells located between the site and the HIMW-015 cluster varied from “not detected” to 2,357 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 27 wells during the second quarter 2009 (Table 3). Figure 7 illustrates the thickness of DNAPL that was measured on April 2, 2009. Figures 8A – 8AA provide cumulative NAPL recovery and NAPL thickness plots for the period December 2003 to June 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 66 gallons of NAPL were recovered from 20 wells (Table 3). The volume of NAPL recovered varied from approximately 6 to 12 gallons per event. Approximately 322 gallons of NAPL have been recovered since April 2007.

4.0 SUMMARY

Following is a summary of the second 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 27 wells during the second 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 6 to 12 gallons per event. Approximately 66 gallons of NAPL were recovered during the second quarter of 2009. Approximately 322 gallons of NAPL have been recovered since April 2007.
- Based on a comparison between the second 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 Second Quarter 2009**

Well ID	Monitoring & Sampling (April 23- May 1, 2009)			NAPL Monitoring and Recovery						
	Groundwater Level	NAPL Thickness	Water Quality	June 22, 2009	June 11, 2009	May 27, 2009	May 14, 2009	May 4, 2009	April 17, 2009	April 2, 2009
HIMW-001S	X	X		X		X		X		X
HIMW-001I	X	X		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	X
HIMW-006I	X	X		X	X	X		X		X
HIMW-006D										
HIMW-007S	X	X		X	X	X	X	X	X	X
HIMW-007I	X	X		X		X		X		X
HIMW-007D	X	X		X		X		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		X		X		X		X
HIMW-011I	X	X		X		X		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 Second Quarter 2009**

Well ID	Monitoring & Sampling (April 23- May 1, 2009)			NAPL Monitoring and Recovery						
	Groundwater Level	NAPL Thickness	Water Quality	June 22, 2009	June 11, 2009	May 27, 2009	May 14, 2009	May 4, 2009	April 17, 2009	April 2, 2009
HIMW-016S	X	X		X	X		X	X	X	X
HIMW-016I	X	X		X	X		X	X	X	X
HIMW-017S	X	X		X	X	X	X	X	X	X
HIMW-018S	X	X		X		X		X		X
HIMW-018I	X	X		X		X		X		X
HIMW-019S	X	X		X		X		X		X
HIMW-019I	X	X		X		X		X		X
HIMW-020S										
HIMW-020I										
PZ-02										
PZ-03										
PZ-08	X	X		X	X	X	X	X	X	X
IPR-01	X	X		X		X		X		X
IPR-02	X	X		X	X	X	X	X		X
IPR-03	X	X		X		X		X		X
IPR-04	X	X		X		X		X		X
IPR-05	X	X		X		X		X		X
IPR-06	X	X		X	X	X	X	X		X
IPR-07	X	X		X		X		X		X
IPR-08	X	X		X		X		X		X
IPR-09	X	X		X		X		X		X
IPR-10	X	X		X		X		X		X
IPR-11	X	X		X		X		X		X
IPR-12A	X	X		X		X		X		X
IPR-12B	X	X		X		X		X		X
IPR-13	X	X		X		X		X		X
IPR-14	X	X		X		X		X		X
IPR-15	X	X		X		X		X		X
IPR-16	X	X		X	X	X	X	X	X	X
IPR-17	X	X		X	X	X	X	X		X
IPR-18	X	X		X		X		X		X
IPR-19S	X	X		X				X		X
IPR-19D	X	X		X		X		X		X
IPR-20	X	X		X		X	X			X
IPR-21	X	X		X	X	X	X	X	X	X
IPR-22	X	X		X	X	X	X	X	X	X
IPR-23	X	X		X		X		X		X
IPR-24	X	X		X		X	X	X		X
IPR-25	X	X		X	X	X	X	X		X
OSMW-01	X	X		X		X		X		X
OSMW-02	X	X		X		X		X		X
OSMW-03	X	X		X		X		X		X

Notes:

- 1 Field marked with "X" indicates that the activity was performed.
- 2 Blank field indicates that the activity was not performed.

Table 2
Hempstead Intersection Street Former MGP Site
Groundwater and NAPL Measurements for the Second 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	4/22/2009	71.61	ND	26.68	26.67	40.9	0	sheen	44.93
HIMW-001I	4/22/2009	71.68	ND	25.95	25.75	85.9	0	0.20	45.73
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	4/22/2009	65.00	ND	19.25	ND	34.8	0	0	45.75
HIMW-003I	4/22/2009	64.94	ND	19.53	ND	87.1	0	0	45.41
HIMW-003D	4/22/2009	65.26	ND	20.21	ND	145.5	0	0	45.05
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	4/22/2009	67.19	ND	21.96	ND	39.1	0	0	45.23
HIMW-005I	4/22/2009	67.22	ND	22.14	ND	92.3	0	0	45.08
HIMW-005D	4/22/2009	67.22	ND	22.73	ND	139.0	0	0	44.49
HIMW-006S	4/22/2009	68.25	ND	22.49	17.79	36.9	0	4.7	45.76
HIMW-006I	4/22/2009	67.88	ND	22.74	21.84	82.2	0	0.9	45.14
HIMW-006D	NM	67.77	ND	NM	ND	120.0	0	0	NM
HIMW-007S	4/22/2009	70.47	ND	24.93	24.03	40.7	0	0.90	45.54
HIMW-007I	4/22/2009	70.10	ND	24.92	ND	90.6	0	0	45.18
HIMW-007D	4/22/2009	70.40	ND	25.86	ND	117.7	0	0	44.54
HIMW-008S	4/22/2009	65.04	ND	20.23	ND	37.1	0	0	44.81
HIMW-008I	4/22/2009	65.14	ND	20.41	ND	75.1	0	0	44.73
HIMW-008D	4/22/2009	64.93	ND	20.22	ND	114.8	0	0	44.71
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	4/22/2009	71.62	ND	26.77	ND	41.6	0	0	44.85
HIMW-011I	NM	71.43	ND	NM	ND	94.5	0	0	NM
HIMW-011D	4/22/2009	71.39	ND	25.56	ND	123.6	0	0	45.83
HIMW-012S	4/22/2009	61.58	ND	18.01	ND	33.5	0	0	43.57
HIMW-012I	4/22/2009	61.59	ND	17.86	ND	75.0	0	0	43.73
HIMW-012D	4/22/2009	61.82	ND	17.71	ND	128.5	0	0	44.11
HIMW-013S	4/22/2009	72.83	ND	30.26	ND	49.2	0	0	42.57
HIMW-013I	4/22/2009	72.60	ND	31.05	ND	82.6	0	0	41.55
HIMW-013D	4/22/2009	72.53	ND	31.04	ND	122.5	0	0	41.49
HIMW-014I	4/22/2009	71.71	ND	30.08	ND	96.9	0	0	41.63
HIMW-014D	4/22/2009	71.59	ND	32.20	ND	152.0	0	0	39.39
HIMW-015I	4/22/2009	64.18	ND	25.44	ND	93.1	0	0	38.74
HIMW-015D	4/22/2009	63.96	ND	25.90	ND	155.0	0	0	38.06
HIMW-016S	4/22/2009	67.45	ND	22.38	18.58	34.4	0	3.80	45.07
HIMW-016I	4/22/2009	67.50	ND	22.25	17.15	82.7	0	5.10	45.25

Table 2
Hempstead Intersection Street Former MGP Site
Groundwater and NAPL Measurements for the Second 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	4/22/2009	65.96	ND	20.88	18.93	36.7	0	1.95	45.08
HIMW-018S	4/22/2009	69.76	ND	24.02	23.82	42.1	0	0.2	45.74
HIMW-018I	4/22/2009	69.70	ND	24.09	ND	71.2	0	0	45.61
HIMW-019S	4/22/2009	70.95	ND	24.90	24.60	39.4	0	0.3	46.05
HIMW-019I	4/22/2009	71.27	ND	25.13	ND	68.9	0	0	46.14
HIMW-020S	NM	70.43	ND	NM	ND	35.0	0	0	NM
HIMW-020I	NM	70.30	ND	NM	ND	73.0	0	0	NM
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	4/22/2009	70.51	ND	24.72	23.82	35.5	0	0.90	45.79
IPR-01	4/22/2009	70.30	ND	24.32	ND	41.9	0	0	45.98
IPR-02	NM	68.84	ND	NM	ND	70.3	0	0	NM
IPR-03	4/22/2009	69.16	ND	23.26	ND	44.7	0	0	45.90
IPR-04	4/22/2009	69.23	ND	24.61	ND	84.4	0	0	44.62
IPR-05	4/22/2009	70.39	ND	23.45	23.44	52.1	0	sheen	46.94
IPR-06	4/22/2009	70.79	ND	25.07	24.97	55.4	0	0.10	45.72
IPR-07	4/22/2009	69.73	ND	23.55	ND	38.0	0	0	46.18
IPR-08	4/22/2009	70.51	ND	24.91	ND	40.3	0	0	45.60
IPR-09	4/22/2009	70.00	ND	24.09	ND	45.0	0	0	45.91
IPR-10	4/22/2009	70.80	ND	25.10	ND	44.8	0	0	45.70
IPR-11	4/22/2009	68.29	ND	24.79	ND	44.6	0	0	43.50
IPR-12A	4/22/2009	70.14	ND	24.51	24.50	38.1	0	sheen	45.63
IPR-12B	4/22/2009	69.56	ND	24.03	ND	45.2	0	0	45.53
IPR-13	4/22/2009	70.77	ND	22.45	ND	44.4	0	0	48.32
IPR-14	4/22/2009	66.93	ND	20.48	ND	44.4	0	0	46.45
IPR-15	4/22/2009	67.93	ND	25.15	25.14	44.4	0	sheen	42.78
IPR-16	4/22/2009	69.49	ND	23.93	23.23	49.1	0	0.7	45.56
IPR-17	4/22/2009	70.60	ND	25.00	24.90	54.1	0	0.1	45.60
IPR-18	4/22/2009	66.87	ND	21.55	ND	50.0	0	0	45.32
IPR-19S	NM	67.68	ND	NM	ND	45.1	0	0	NM
IPR-19D	4/22/2009	67.96	ND	23.60	ND	89.9	0	0	44.36
IPR-20	4/22/2009	66.70	ND	21.47	ND	45.4	0	0	45.23
IPR-21	4/22/2009	67.67	ND	21.40	20.40	45.0	0	1.0	46.27
IPR-22	4/22/2009	66.33	ND	21.22	19.42	45.4	0	1.8	45.11
IPR-23	4/22/2009	66.67	ND	21.53	ND	45.4	0	0	45.14
IPR-24	4/22/2009	65.88	ND	20.86	20.41	44.4	0	0.45	45.02
IPR-25	4/22/2009	70.56	ND	26.68	26.48	44.5	0	0.20	43.88
OSMW-01	4/22/2009	71.12	ND	25.15	ND	42.2	0	0	45.97
OSMW-02	4/22/2009	71.59	ND	25.88	ND	45.2	0	0	45.71
OSMW-03	NM	71.39	ND	NM	ND	44.7	0	0	NM

Notes:

- (1) Potentiometric heads in wells containing LNAPL are corrected using a specific gravity = 0.96
- sheen Sheen = assumed thickness of 0.01 ft.
- NM not measured
- LNAPL light non-aqueous phase liquid
- DNAPL dense non-aqueous phase liquid
- TOR top of riser
- amsl above mean sea level
- ND NAPL not detected

Table 3
Hempstead Intersection Street Former MGP Site
NAPL Recovery, Second Quarter of 2009

Well ID	June 22, 2009			June 11, 2009			May 27, 2009			May 14, 2009			May 4, 2009			April 17, 2009			April 2, 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)	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]	[ft]	[ft]	[gal]							
HIMW-001S	0	0.10	0.02	NI	NI	0	0	0.10	0.02	NI	NI	0	0	0.10	0.02	NI	NI	0	0	0	0	0						
HIMW-001I	0	0.80	0.13	0	0.85	0.14	0	0.60	0.10	0	0.50	0.08	0	1.40	0.23	0	2.50	0.41	0	0.20	0.03							
HIMW-006S	0	2.30	0.38	0	3.80	0.62	0	1.20	0.20	0	2.60	0.42	0	3.45	0.56	0	2.00	0.33	0	4.70	0.77							
HIMW-006I	0	trace	0	0	0	0	0	trace	0	NI	NI	0	0	trace	0.00	NI	NI	0	0	0.90	0.15							
HIMW-007S	0	0.60	0.10	0	0.30	0.05	0	0.40	0.07	0	1.20	0.20	0	0.85	0.14	0	3.00	0.49	0	0.90	0.15							
HIMW-007I	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0							
HIMW-007D	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	trace	0	NI	NI	0	0	0	0							
HIMW-011S	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0							
HIMW-011I	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0							
HIMW-016S	0	3.90	0.64	0	4.00	0.65	0	NI	0	0	3.00	0.49	0	5.10	0.83	0	3.50	0.57	0	3.80	0.62							
HIMW-016I	0	4.10	0.67	0	4.30	0.70	NI	NI	0	0	7.30	1.19	0	3.50	0.57	0	1.00	0.16	0	5.10	0.83							
HIMW-017S	0	1.10	0.18	0	1.55	0.25	0	1.30	0.21	0	0.30	0.05	0	2.10	0.34	0	3.00	0.49	0	1.95	0.32							
HIMW-018S	0	trace	0	NI	NI	0	0	trace	0.00	NI	NI	0	0	0.60	0.10	NI	NI	0	0	0.20	0.03							
HIMW-018I	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0							
HIMW-019S	0	0	0	NI	NI	0	0	0.10	0.02	NI	NI	0	0	trace	0	NI	NI	0	0	0.30	0.05							
HIMW-019I	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	0	0							
PZ-08	0	1.50	0.24	0	0.95	0.16	0	1.80	0.29	0	1.80	0.29	0	1.60	0.26	0	3.00	0.49	0	0.90	0.15							
IPR-02	0	0.5	0.73	0	trace	0	0	0.60	0.88	0	0.40	0.59	0	0.35	0.51	NI	NI	0	0	trace	0.0							
IPR-05	0	0	0	NI	NI	0	0	0.80	0.03	NI	NI	0	0	0.10	0.00	NI	NI	0	0	trace	0.0							
IPR-06	0	0.70	1.03	0	0.60	0.88	0	0.50	0.73	0	1.30	1.91	0	0.60	0.88	NI	NI	0	0	0.10	0.15							
IPR-09	0	0	0	NI	NI	0	0	0	0	NI	NI	0	0	trace	0	NI	NI	0	NI	NI	0							
IPR-12A	0	trace	0	NI	NI	0	0	trace	0	NI	NI	0	0	trace	0	NI	NI	0	0	trace	0							
IPR-14	0	0	0	NI	NI	0	0	trace	0	NI	NI	0	NI	NI	0	NI	NI	0	NI	NI	0							
IPR-15	0	trace	0	NI	NI	0	0	trace	0	NI	NI	0	0	trace	0	NI	NI	0	0	trace	0							
IPR-16	0	trace	0	0	trace	0	0	trace	0	0	0.10	0.13	0	0.80	1.08	0	0	0	0	0.70	0.94							
IPR-17	0	trace	0	0	trace	0	0	0	0	0	0.10	0.13	0	0.20	0.27	0	NI	0	0	0.10	0.13							
IPR-19D	0	0	0	NI	NI	0	0	trace	0	NI	NI	0	NI	NI	0	NI	NI	0	NI	NI	0							
IPR-20	0	0	0	NI	NI	0	0	trace	0	NI	NI	0	NI	NI	0	NI	NI	0	0	0	0							
IPR-21	0	0.5	0.73	0	0.90	1.32	0	0.60	0.88	0	1.20	1.76	0	1.20	1.76	0	3.00	4.41	0	1.00	1.47							
IPR-22	0	0.75	1.10	0	1.30	1.91	0	0.70	1.03	0	1.50	2.20	0	2.00	2.94	0	3.00	4.41	0	1.80	2.64							
IPR-24	0	0.2	0.29	NI	NI	0	0	0.20	0.29	0	0.60	0.88	0	0.50	0.73	NI	NI	0	0	0.45	0.66							
IPR-25	0	0.50	0.73	0	0.80	1.18	0	0.60	0.88	0	0.90	1.32	0	0.70	1.03	NI	NI	0	0	0.20	0.29							
	Volume Removed	6.98			Volume Removed	7.86			Volume Removed	5.63			Volume Removed	11.66			Volume Removed	12.26			Volume Removed	11.75			Volume Removed	9.39		

Total volume recovered during the second quarter 2008: 65.53 gal
Total volume of NAPL recovered since April 2007: 321.9 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 / ft of well screen.
 - All IPR monitoring wells (unless noted) are 6-inch diameter: Vol = 1.469 gal / ft of well screen.
 - Monitoring wells IPR-16 and IPR-17 are 5.75-inch diameter: Vol = 1.349 gal / ft of well screen.
 - Monitoring well IPR-05 and IPR-12A are 1-inch diameter: Vol = 0.041 gal / ft of well screen.

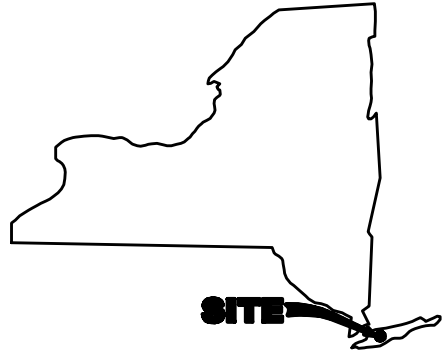
Table 4
Hempstead Intersection Street Former MGP Site
Dissolved-Phase Concentrations of
Total BTEX Compounds and Total PAH Compounds
for the Second Quarter 2009

Well ID	Second Quarter 2009 (April 23 - May 1, 2009) Concentrations	
	BTEX [ug/L]	PAH [ug/L]
HIMW-001D		
HIMW-001I		
HIMW-001S		
HIMW-002D		
HIMW-002I		
HIMW-002S		
HIMW-003D	8.2	ND
HIMW-003I	1.2	ND
HIMW-003S	ND	ND
HIMW-004D		
HIMW-004I		
HIMW-004S		
HIMW-005D	72.5	ND
HIMW-005I	243.1	2,357
HIMW-005S	ND	ND
HIMW-006D		
HIMW-006I		
HIMW-006S		
HIMW-007D		
HIMW-007I		
HIMW-007S		
HIMW-008D	ND	46
HIMW-008I	8.6	ND
HIMW-008S	ND	ND
HIMW-009D		
HIMW-009I		
HIMW-009S		
HIMW-010D		
HIMW-010I		
HIMW-010S		
HIMW-011D		
HIMW-011I		
HIMW-011S		
HIMW-012D	ND	ND
HIMW-012I	29.2	65
HIMW-012S	ND	ND
HIMW-013D	2.8	7
HIMW-013I	32.6	60
HIMW-013S	ND	ND
HIMW-014D	ND	ND
HIMW-014I	72.6	41
HIMW-015D	ND	ND
HIMW-015I	18	11
HIMW-016I		
HIMW-016S		
HIMW-017S		
HIMW-018I		
HIMW-018S		
HIMW-019I		
HIMW-019S		
HIMW-020I		
HIMW-020S		
PZ-02		
PZ-03		
PZ-08		

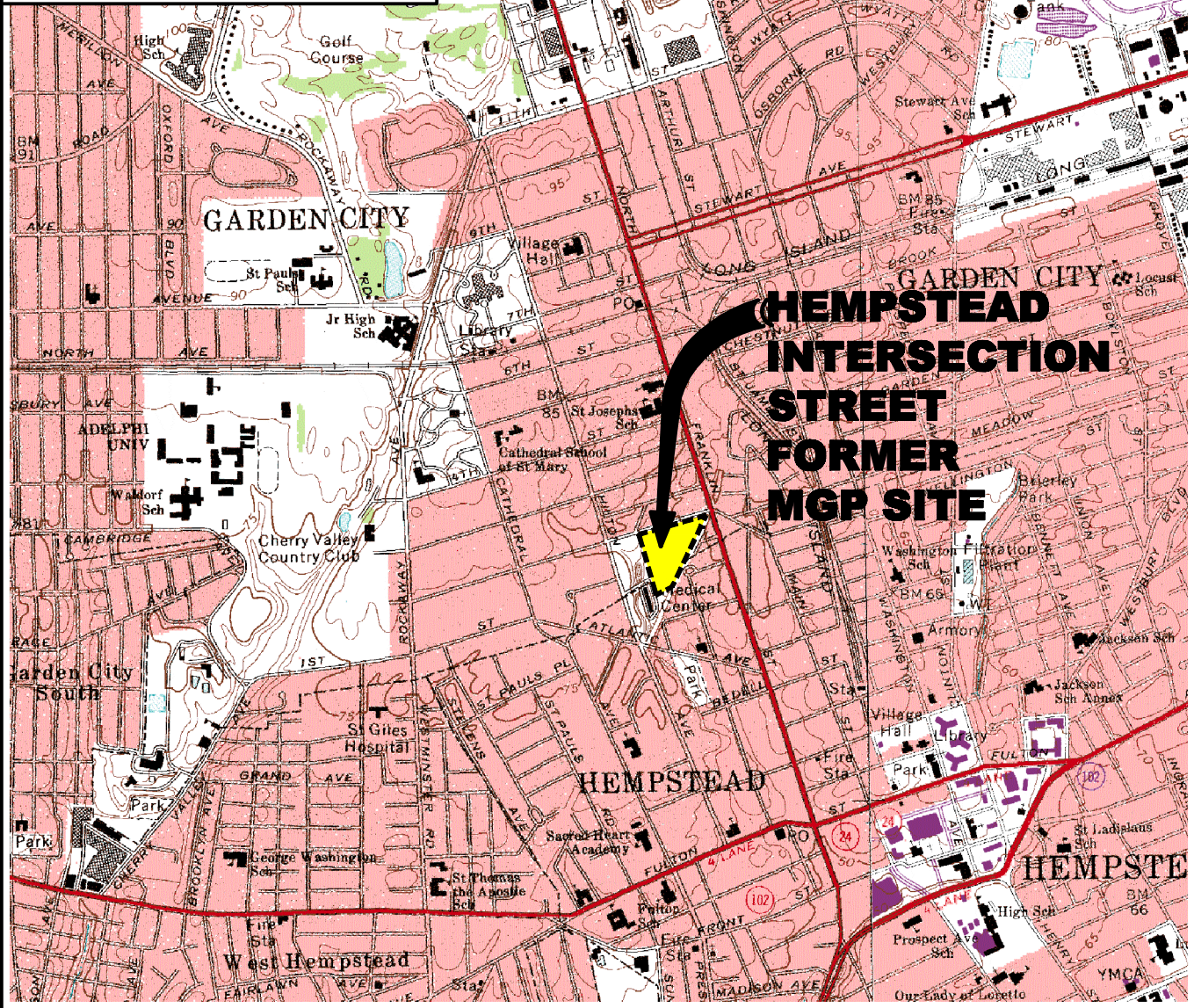
Notes:

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

FIGURES

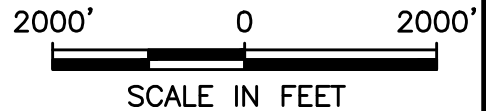


KEY MAP
NEW YORK STATE



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

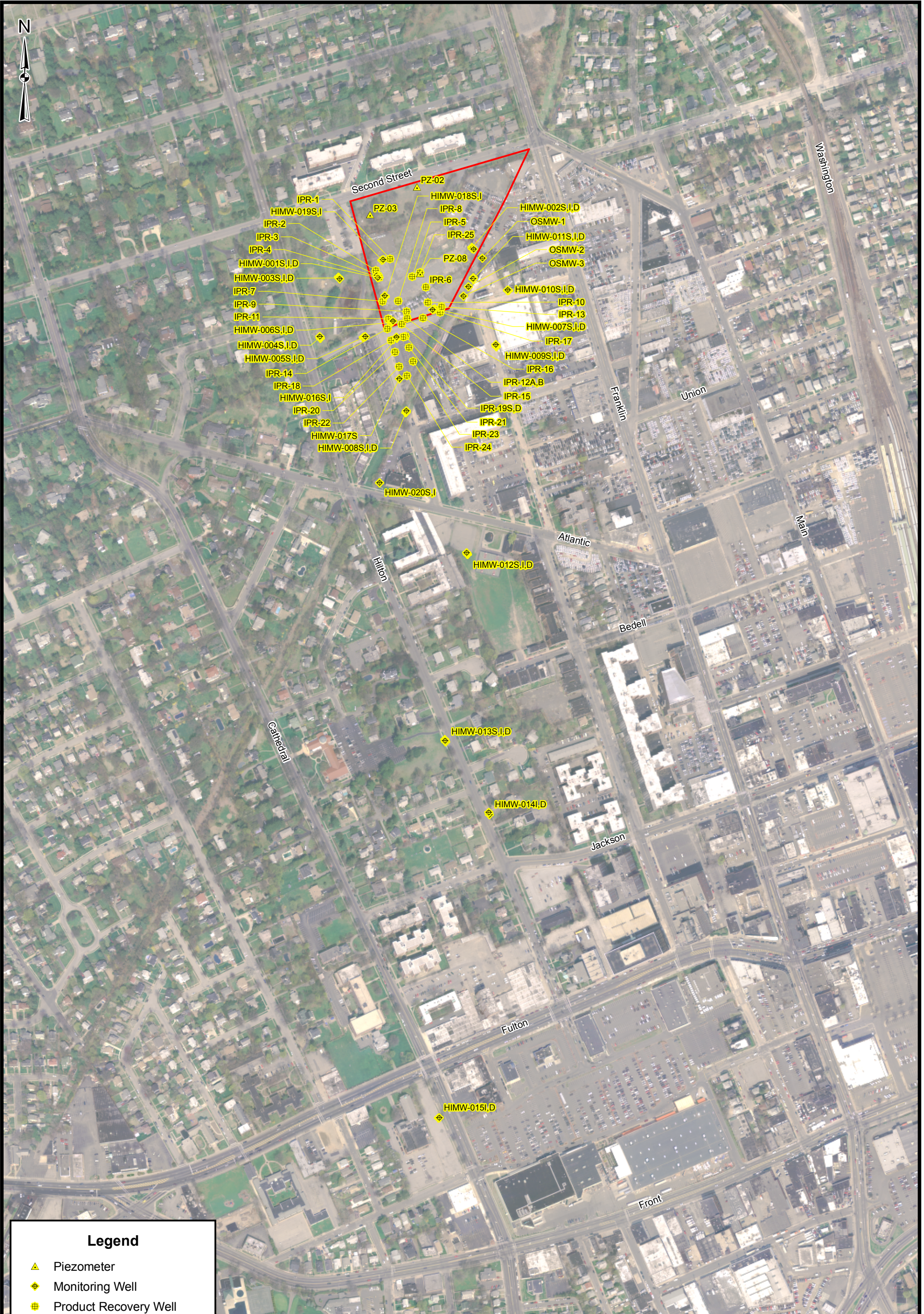
SOURCE:
USGS 7.5 MINUTE SERIES
TOPOGRAPHICAL QUADRANGLES:
FREEPORT, NY (1969)
LYNDBROOK, NY (1969)







URS Corporation

LOCATION MAP

FIGURE 1



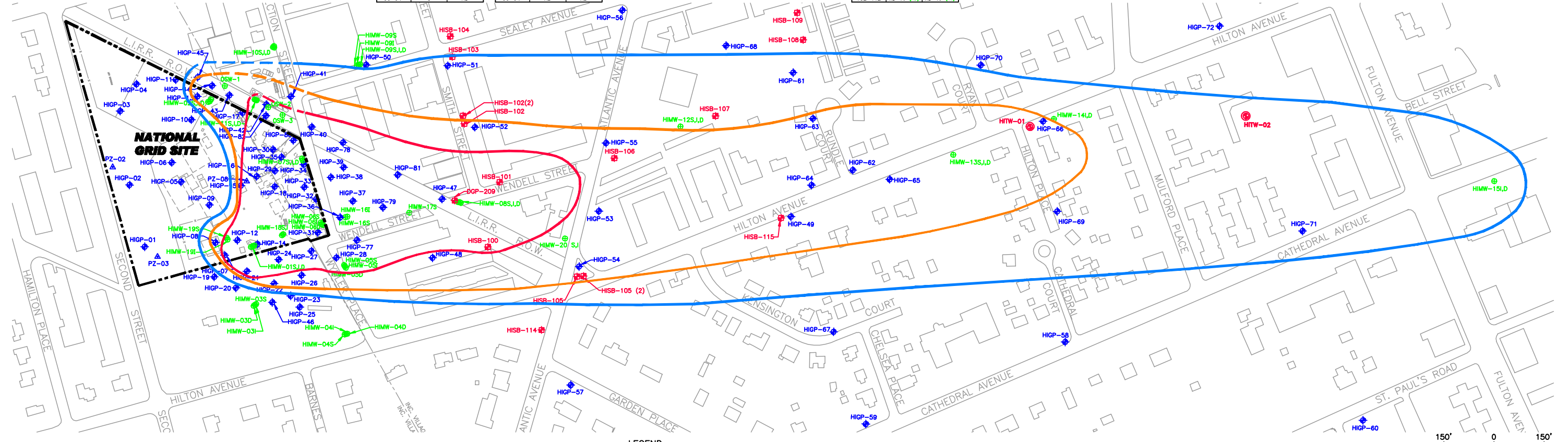
Legend

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

400 0 400 Feet

J:\1175085.00000\CAD\DRAWING\TASK2\HEMPSTEAD\GROUNDWATER MONITORING\SECOND QUARTER 2009\FIGURE 3.dwg 8/12/09 - 5 - RAL

DGP-209 (11/11/08) DEPTH TOT. BTEX TOT. PAHs 34-38 1,709 1,066 40-44 4,890 845 50-54 3,859 1,297 70-74 2 3	HIGP-40 (8/7/00) DEPTH TOT. BTEX TOT. PAHs 30-34 4,186 9,815 58-60 4 112	HIGP-49 (10/16/00) DEPTH TOT. BTEX TOT. PAHs 38-40 ND ND 60-64 7 63 90-94 ND 16	HIGP-55 (9/7/00) DEPTH TOT. BTEX TOT. PAHs 23-27 31 244 60-64 69 532 80-84 2 ND	HIGP-61 (11/8/00) DEPTH TOT. BTEX TOT. PAHs 26-30 ND ND 60-64 30 39 90-94 2 2	HIGP-66 (12/14/00) DEPTH TOT. BTEX TOT. PAHs 40-44 ND ND 58-60 8 60 72-76 398 787 90-94 12,970 259	HIGP-71 (11/6/01) DEPTH TOT. BTEX TOT. PAHs 46-50 ND ND 54-58 ND ND 62-66 1 7 72-76 29 84 81-85 128 95	HIMW-09S,I,D DEPTH TOT. BTEX TOT. PAHs 28-38 ND-16 ND-8 70-80 ND-2 ND 113-123 ND-16 ND-10	HIMW-15I,D DEPTH TOT. BTEX TOT. PAHs 80-90 5-11(10) ND-273(11) 141.5-151.5 ND-84 (ND) ND-1(ND)	HISB-102(2) (1/8/09) DEPTH TOT. BTEX TOT. PAHs 30-34 423 859 40-44 464 274 50-54 349 652 60-64 68 453 70-74 5 5 80-84 ND 1	HISB-106 (12/4/08) DEPTH TOT. BTEX TOT. PAHs 30-34 118 602 40-44 1,162 383 50-54 1,800 2,513 60-64 815 572 70-74 68 51 80-84 38 30 90-94 124 98	HISB-114 (12/23/08) DEPTH TOT. BTEX TOT. PAHs 30-34 ND ND 40-44 ND ND 50-54 ND ND 60-64 ND ND 70-74 ND ND 80-84 ND ND 90-94 ND ND
--	--	--	--	--	--	---	--	--	--	--	--



LEGEND:

HITW-02	TEMPORARY GROUNDWATER MONITORING WELL (TAKEN FROM RI REPORT, 2006)	HIMW-13	MONITORING WELL	LOCATION ID	HIGP-60 (10/19/00)	SAMPLE DATE	EXISTING HOUSE OR BUILDING	ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 1,000 ug/L	ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS. DASHED LINES REPRESENT CONTAMINATION CONCENTRATIONS THAT ARE LIKELY INFLUENCED BY THIRD PARTY SOURCES.
HIGP-53	TEMPORARY GROUNDWATER SAMPLE LOCATION (TAKEN FROM RI REPORT, 2006)	PZ-02	PIEZOMETER	DEPTH (ft bgs)	33-37 ND ND 60-64 ND ND 90-94 ND ND	CONCENTRATION UNITS ARE ug/L (APRIL 2009 CONCENTRATION)	NATIONAL GRID PROPERTY BOUNDARY	ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 5,000 ug/L	ESTIMATED EXTENT OF GROUNDWATER PLUME AS DEFINED BY TOTAL BTEX OR TOTAL PAH CONCENTRATIONS EQUAL TO OR GREATER THAN 100 ug/L
	ND NOT DETECTED	HISB-114	TEMPORARY GROUNDWATER SAMPLE LOCATION (URS, 2008-2009)						

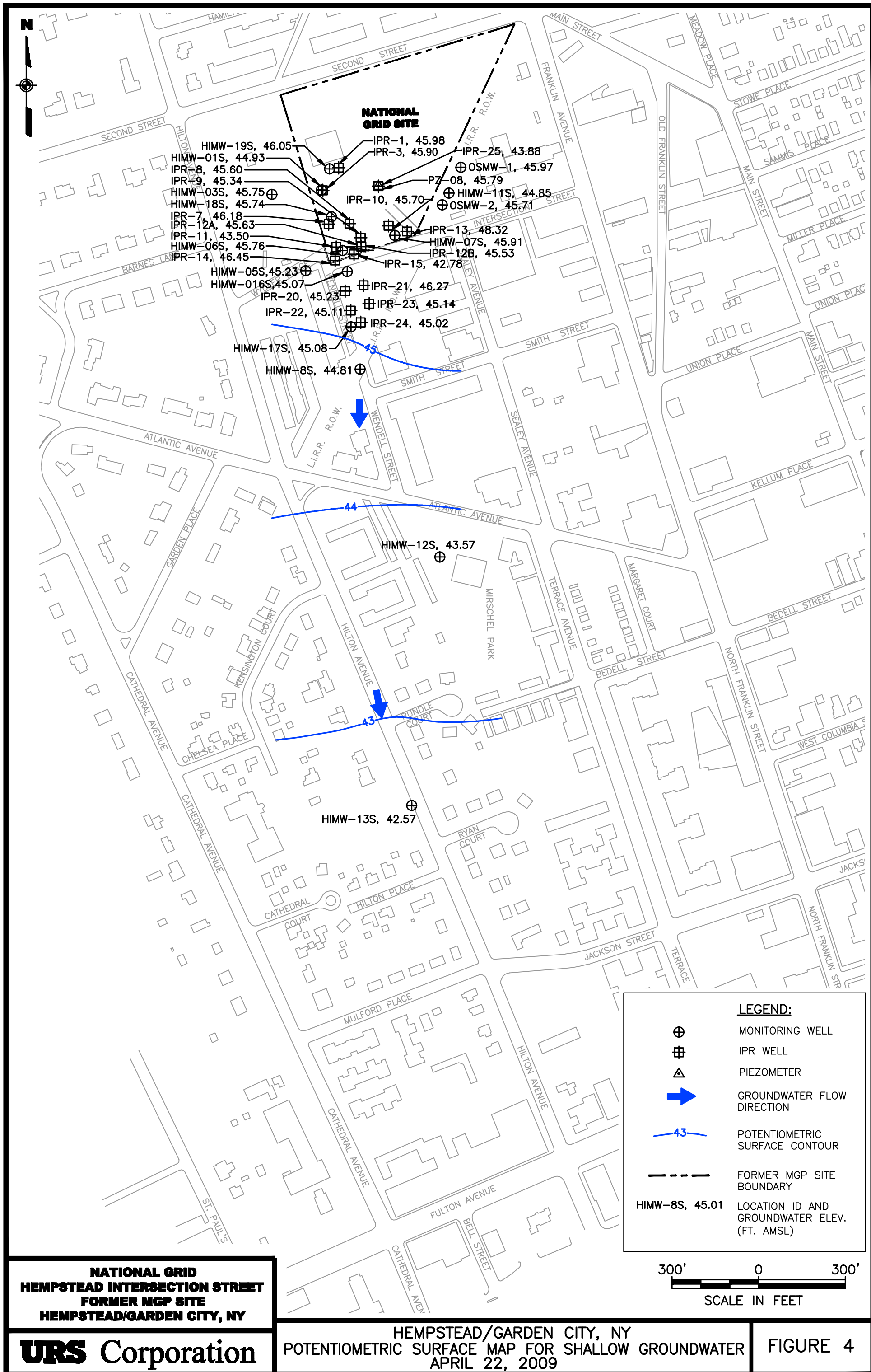
* SOME LOCATIONS ON SITE AND ADJACENT TO SITE ARE NOT SHOWN FOR FIGURE CLARITY.

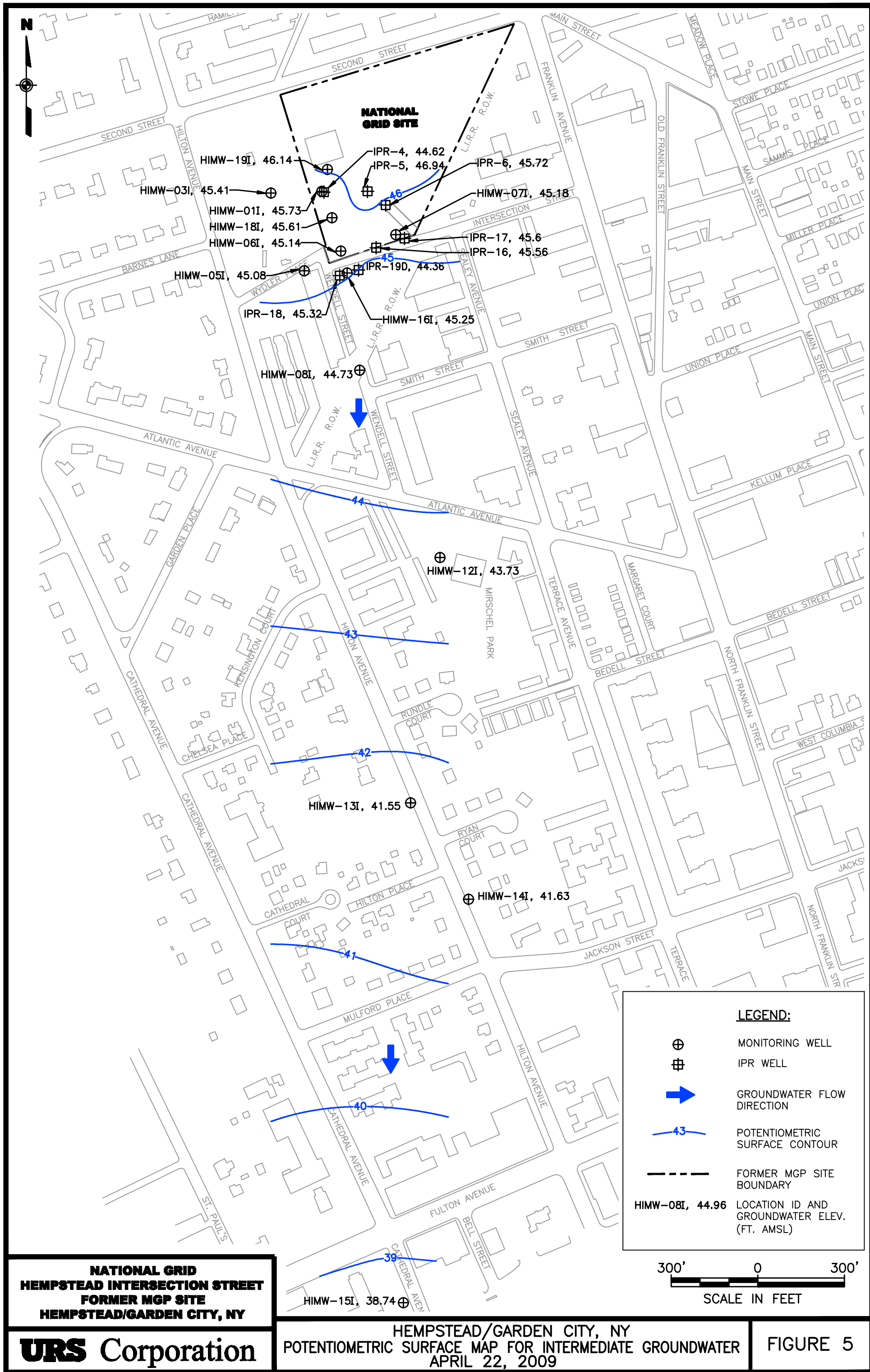
URS Corporation

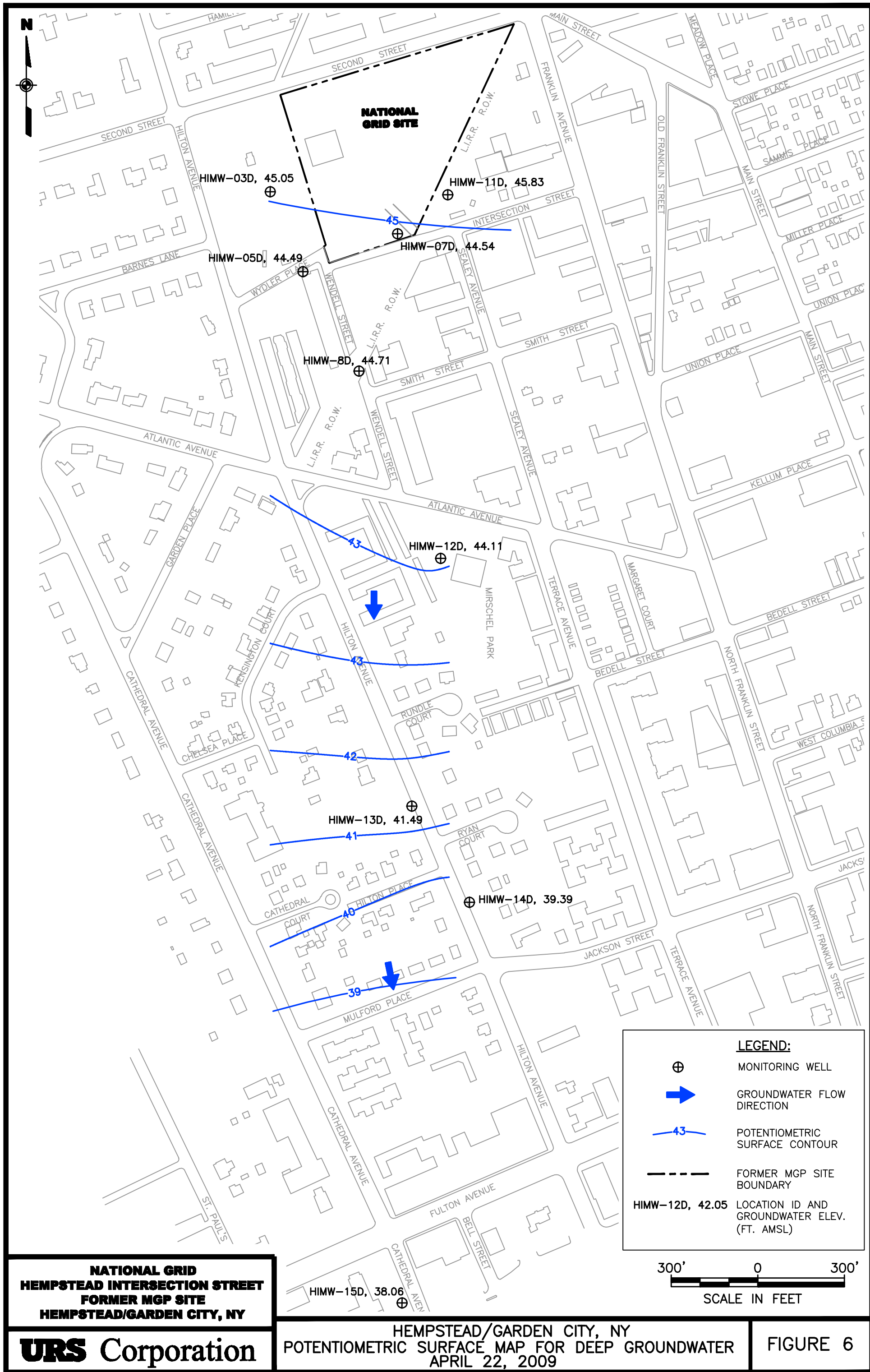
**NATIONAL GRID
HEMPSTEAD INTERSECTION STREET
FORMER MGP SITE
HEMPSTEAD/GARDEN CITY, NY**

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

FIGURE 3







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

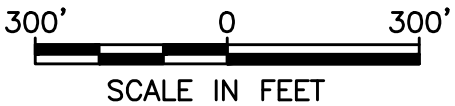
URS Corporation

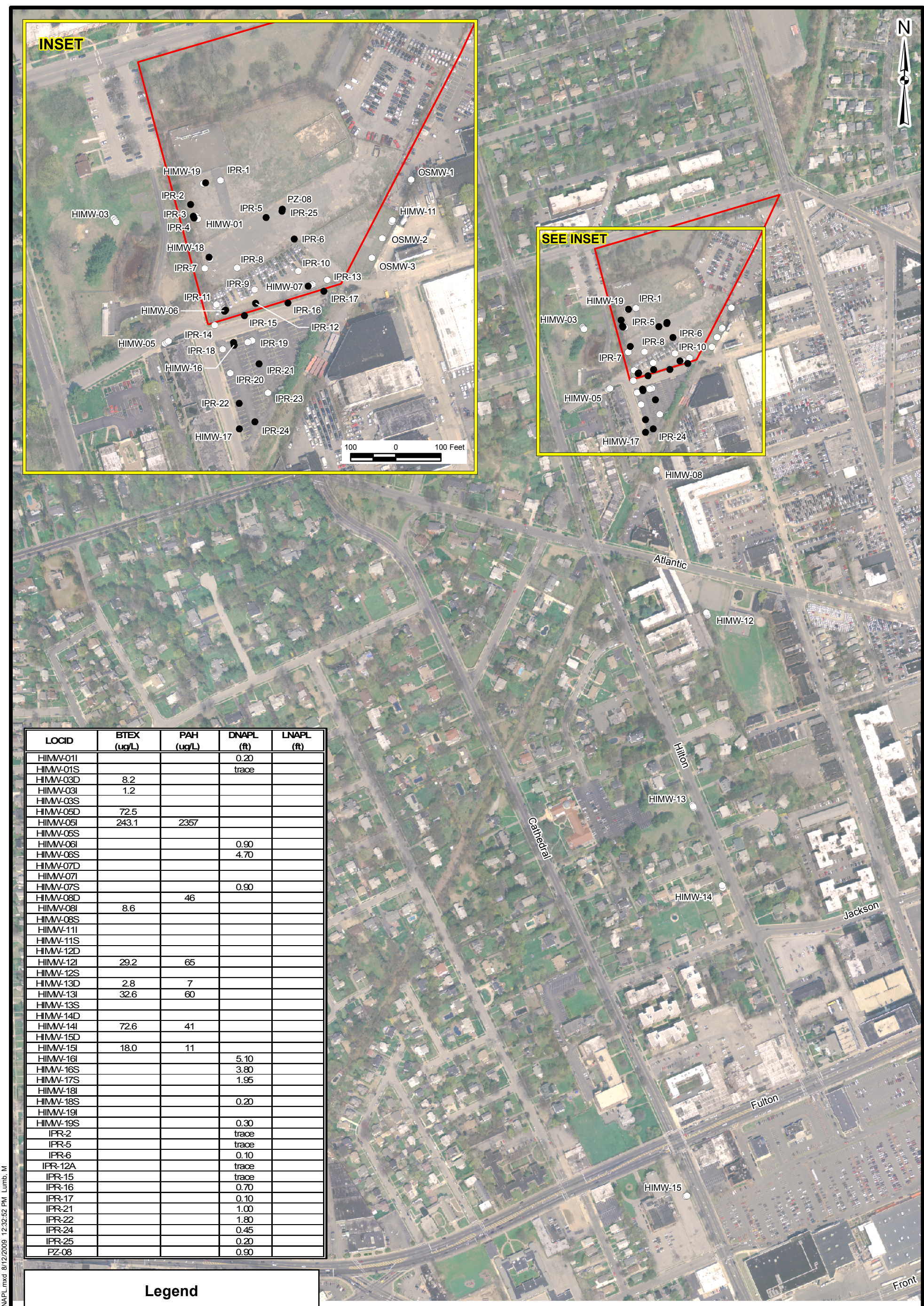
**HEMPSTEAD/GARDEN CITY, NY
POTENTIOMETRIC SURFACE MAP FOR DEEP GROUNDWATER
APRIL 22, 2009**

FIGURE 6

LEGEND:

- ⊕ MONITORING WELL
- ➔ GROUNDWATER FLOW DIRECTION
- 43 — POTENTIOMETRIC SURFACE CONTOUR
- - - FORMER MGP SITE BOUNDARY
- HIMW-12D, 42.05 LOCATION ID AND GROUNDWATER ELEV. (FT. AMSL)





LOCID	BTEX (ug/L)	PAH (ug/L)	DNAPL (ft)	LNAPL (ft)
HIMW-01I			0.20	
HIMW-01S			trace	
HIMW-03D	8.2			
HIMW-03I	1.2			
HIMW-03S				
HIMW-05D	72.5			
HIMW-05I	243.1	2357		
HIMW-05S				
HIMW-06I			0.90	
HIMW-06S			4.70	
HIMW-07D				
HIMW-07I				
HIMW-07S			0.90	
HIMW-08D		46		
HIMW-08I	8.6			
HIMW-08S				
HIMW-11I				
HIMW-11S				
HIMW-12D				
HIMW-12I	29.2	65		
HIMW-12S				
HIMW-13D	2.8	7		
HIMW-13I	326	60		
HIMW-13S				
HIMW-14D				
HIMW-14I	72.6	41		
HIMW-15D				
HIMW-15I	18.0	11		
HIMW-16I			5.10	
HIMW-16S			3.80	
HIMW-17S			1.95	
HIMW-18I				
HIMW-18S			0.20	
HIMW-19I				
HIMW-19S			0.30	
IPR-2			trace	
IPR-5			trace	
IPR-6			0.10	
IPR-12A			trace	
IPR-15			trace	
IPR-16			0.70	
IPR-17			0.10	
IPR-21			1.00	
IPR-22			1.80	
IPR-24			0.45	
IPR-25			0.20	
PZ-08			0.90	

Legend

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



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

FIGURE 7

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

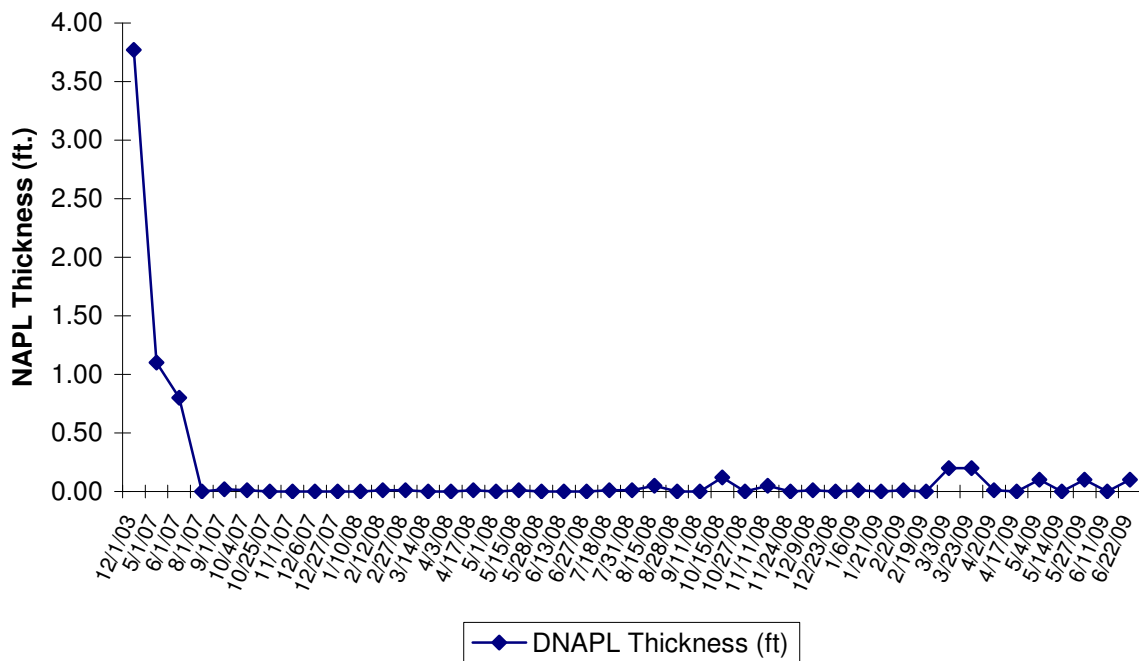
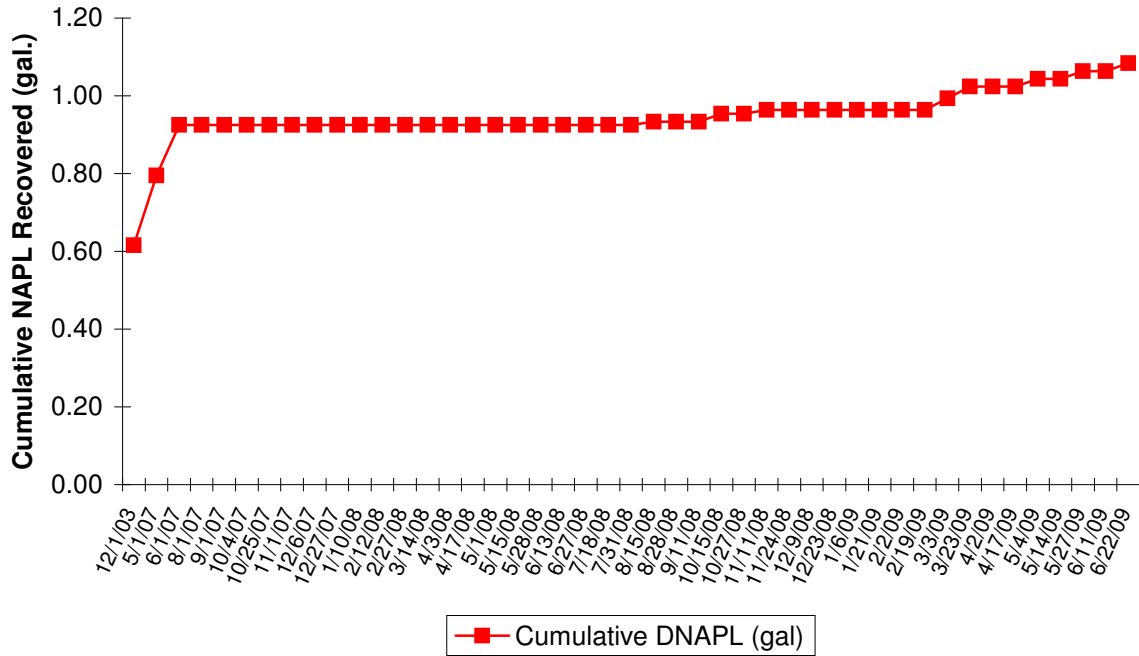


FIGURE 8B
Well HIMW-011 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

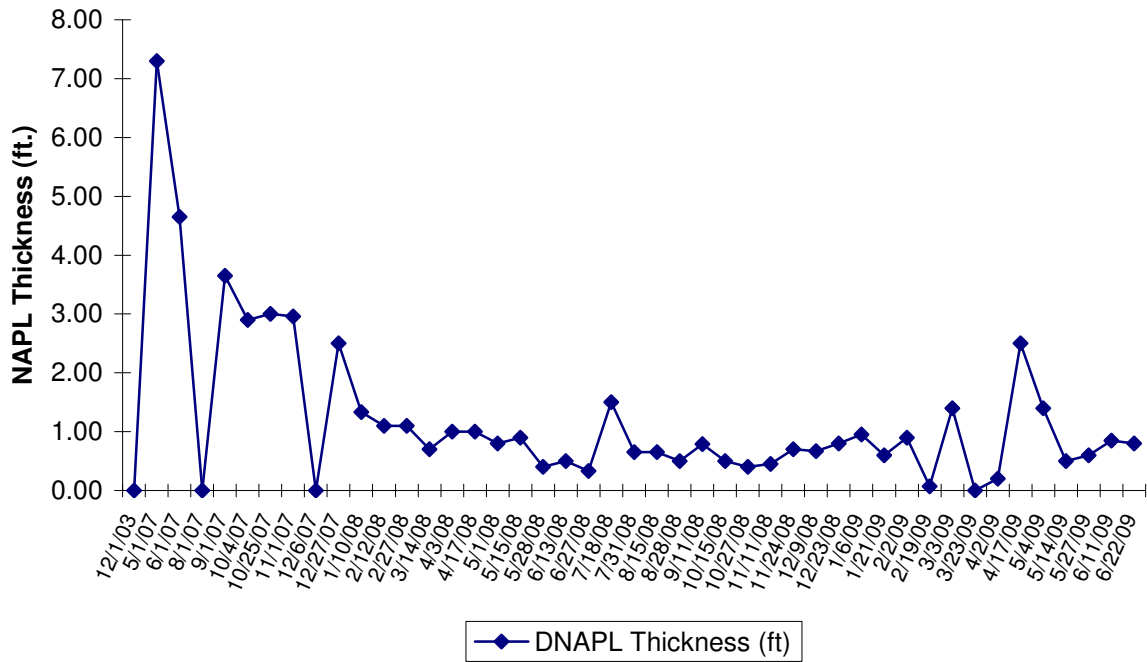
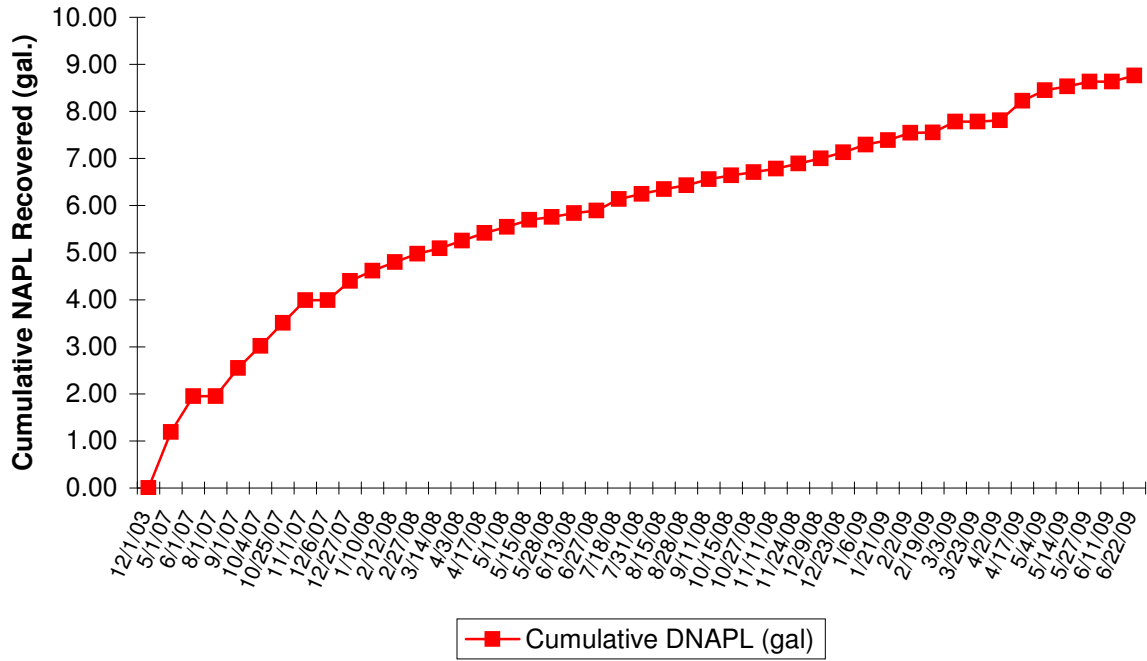


FIGURE 8C
Well HIMW-06S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

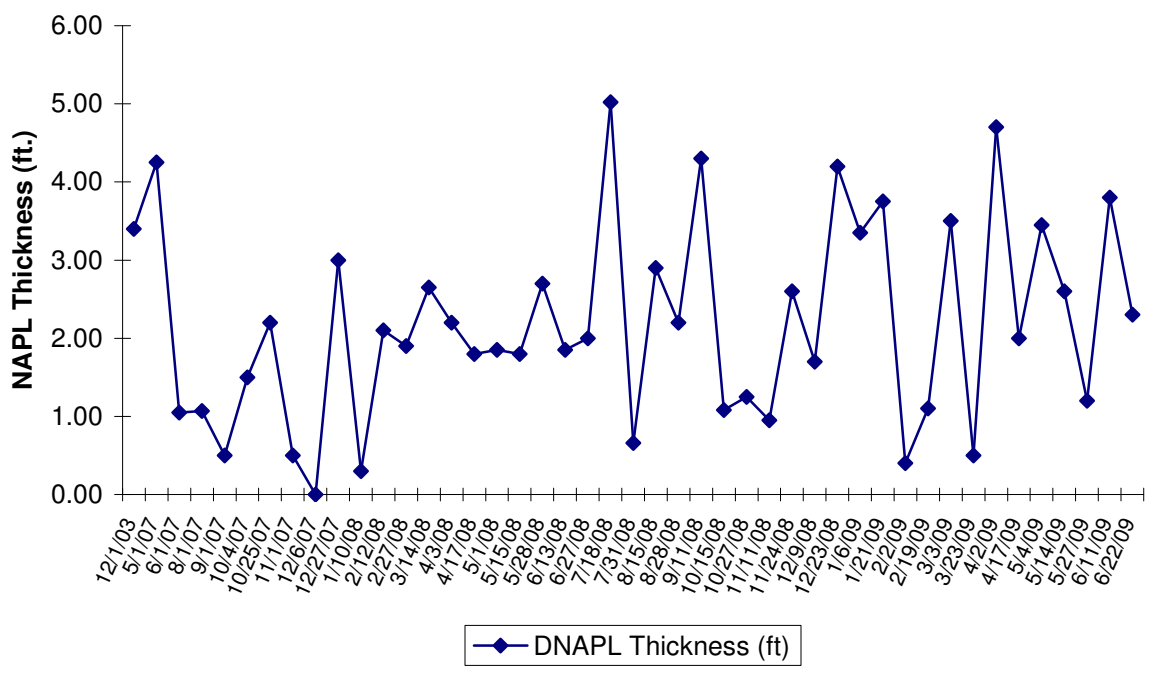
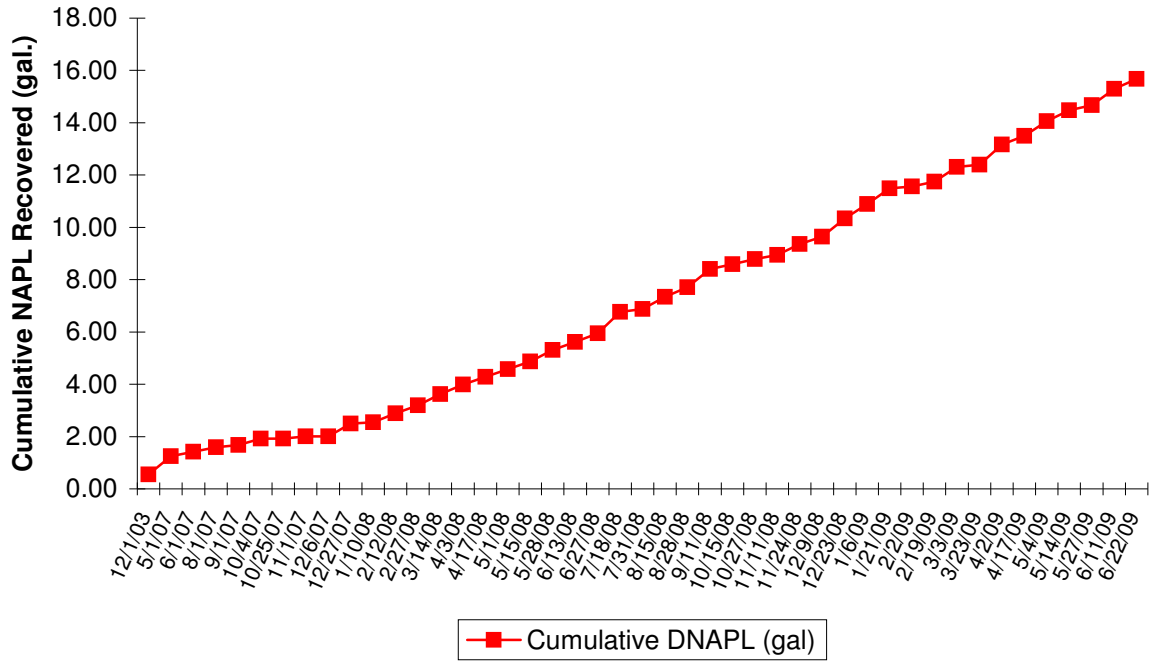


FIGURE 8D
Well HIMW-06I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

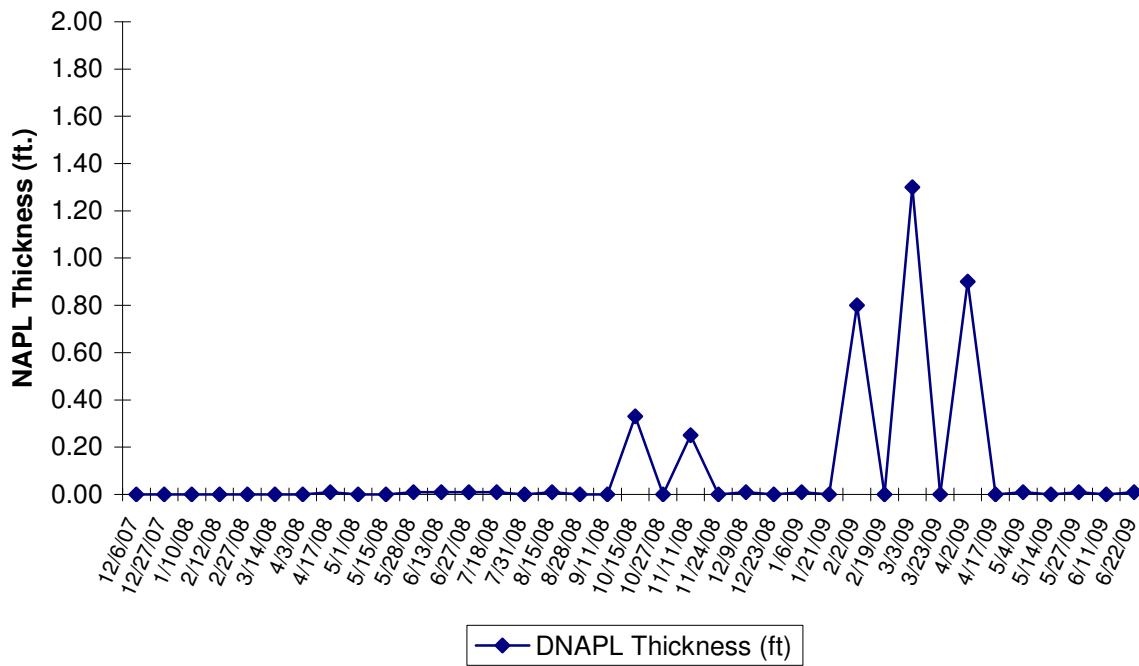
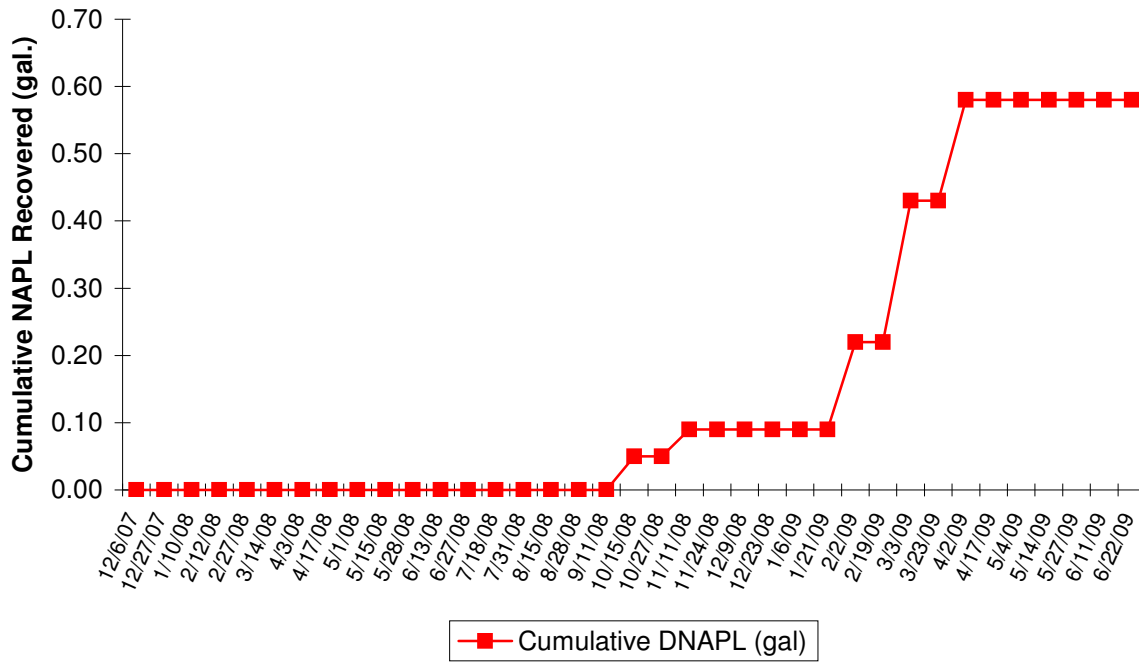


FIGURE 8E
Well HIMW-07S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

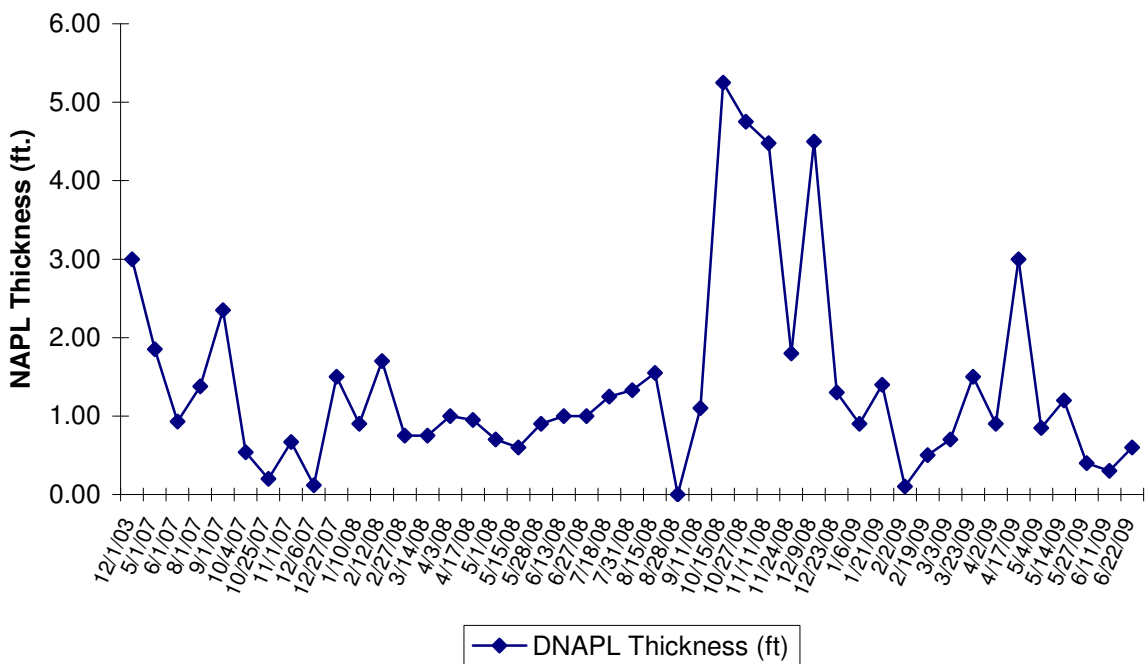
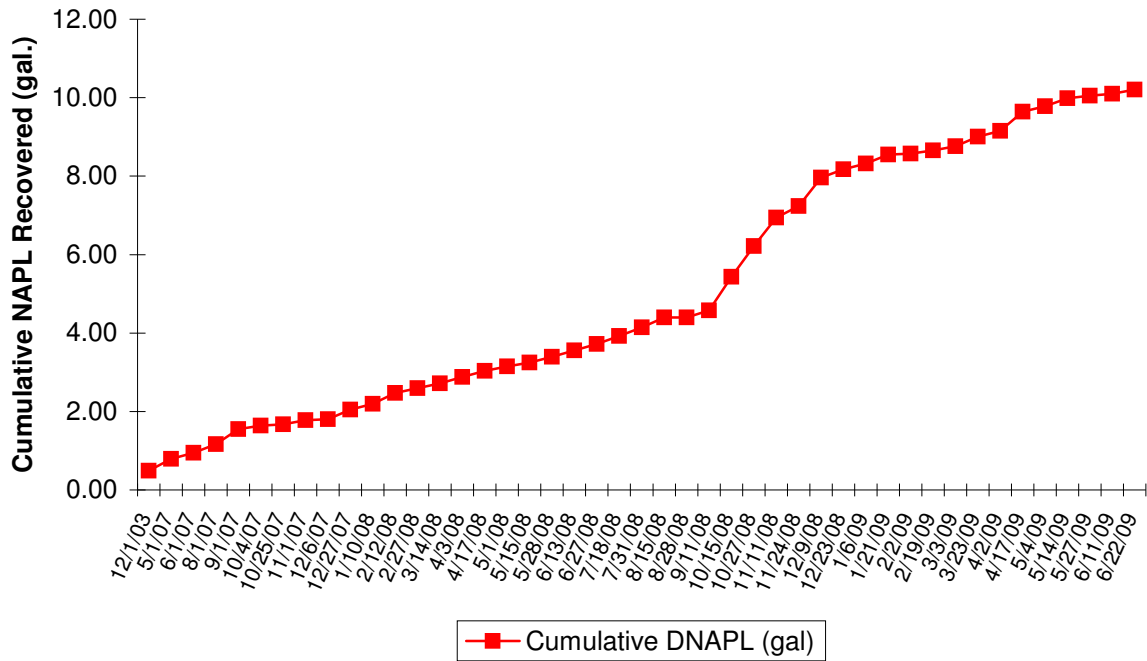


FIGURE 8F
Well HIMW-11S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

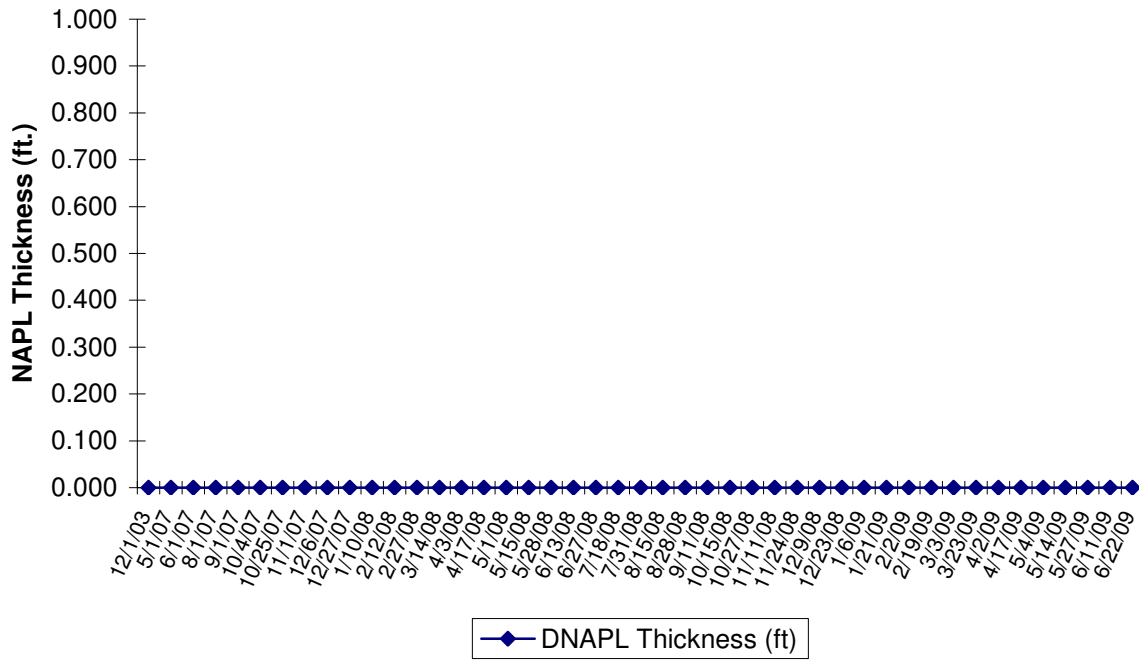
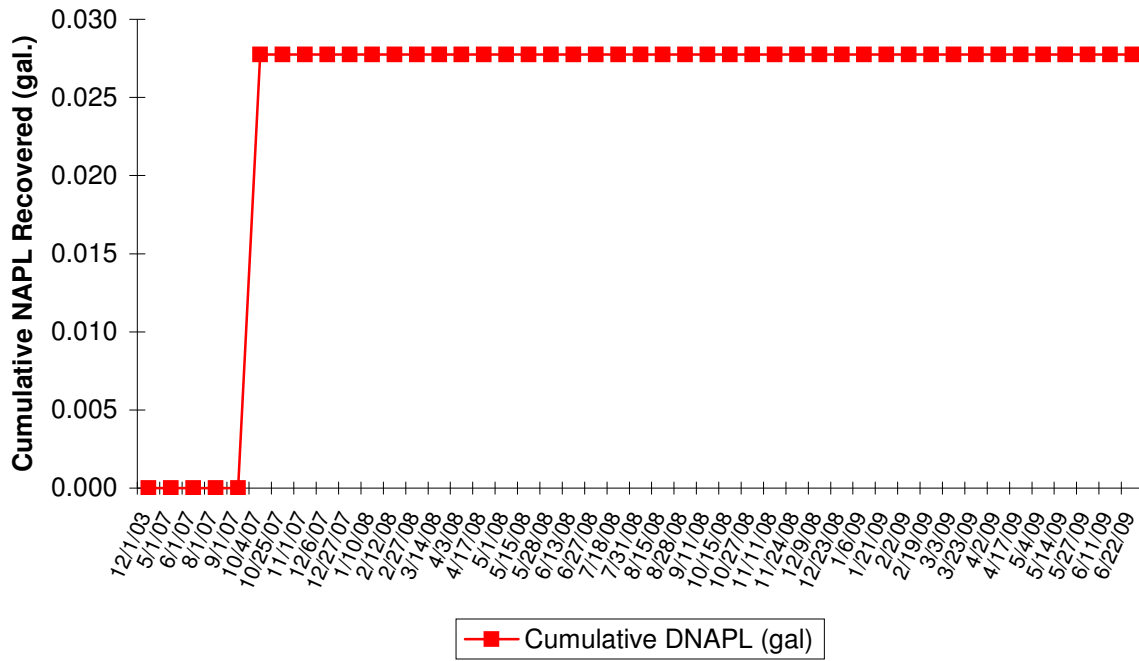


FIGURE 8G
Well HIMW-11I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

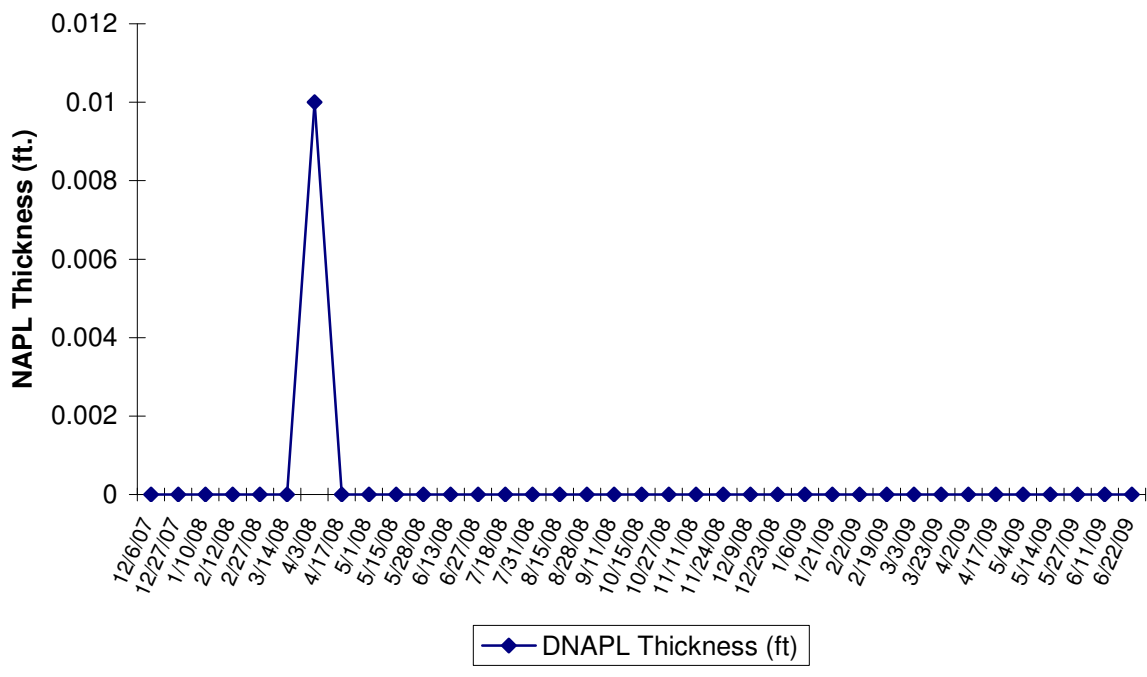
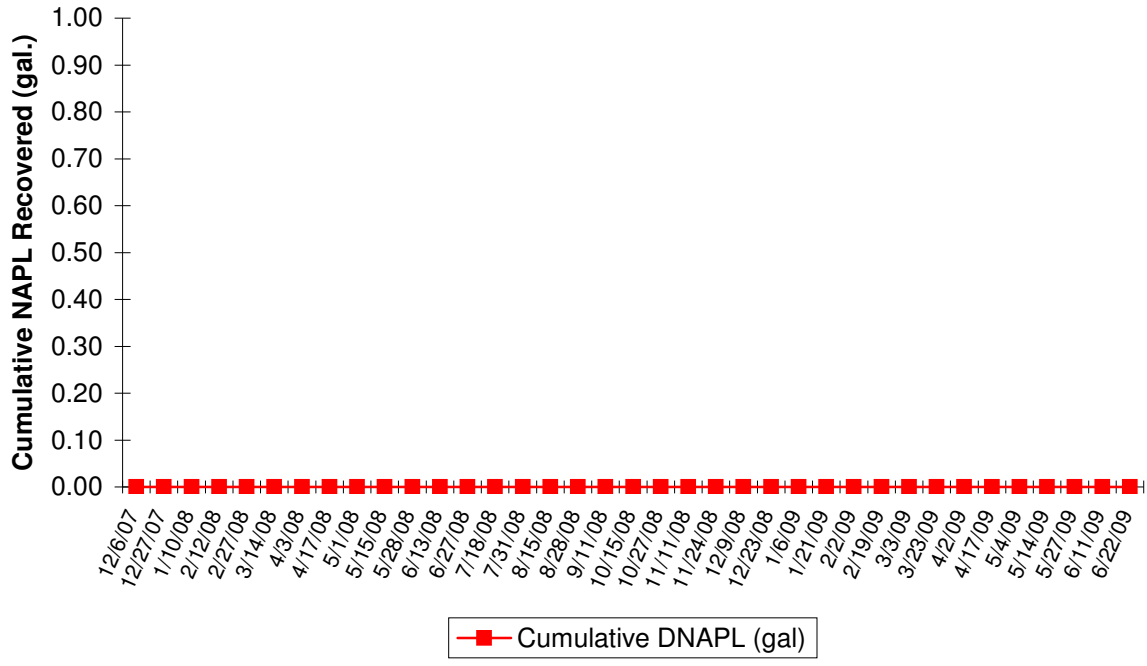


FIGURE 8H
Well HIMW-16S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

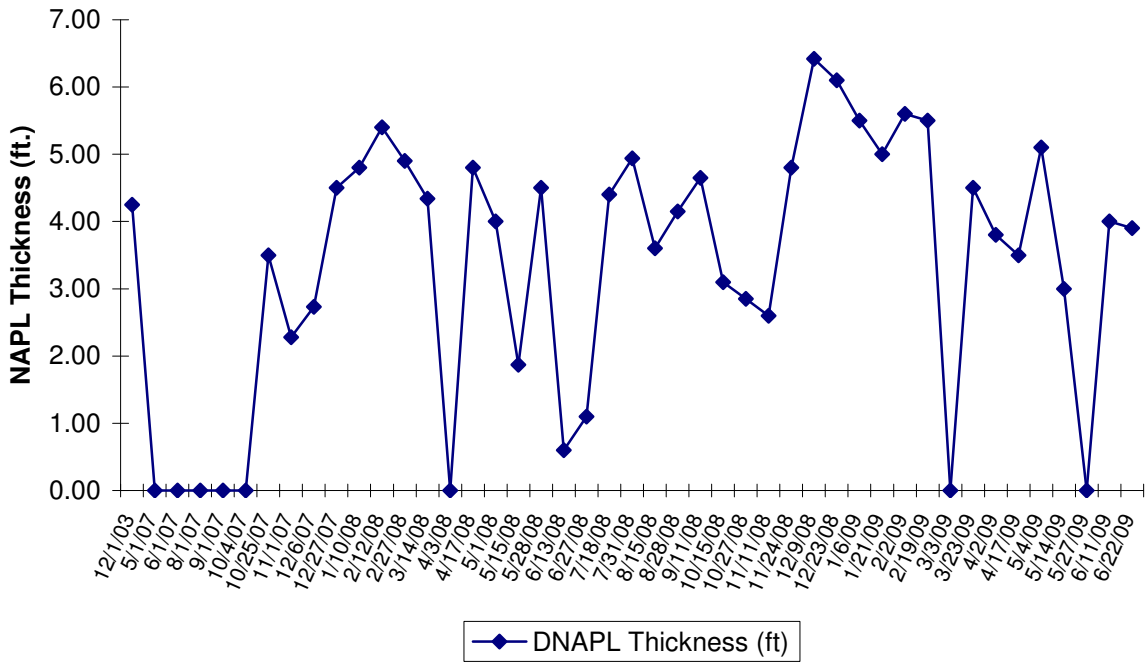
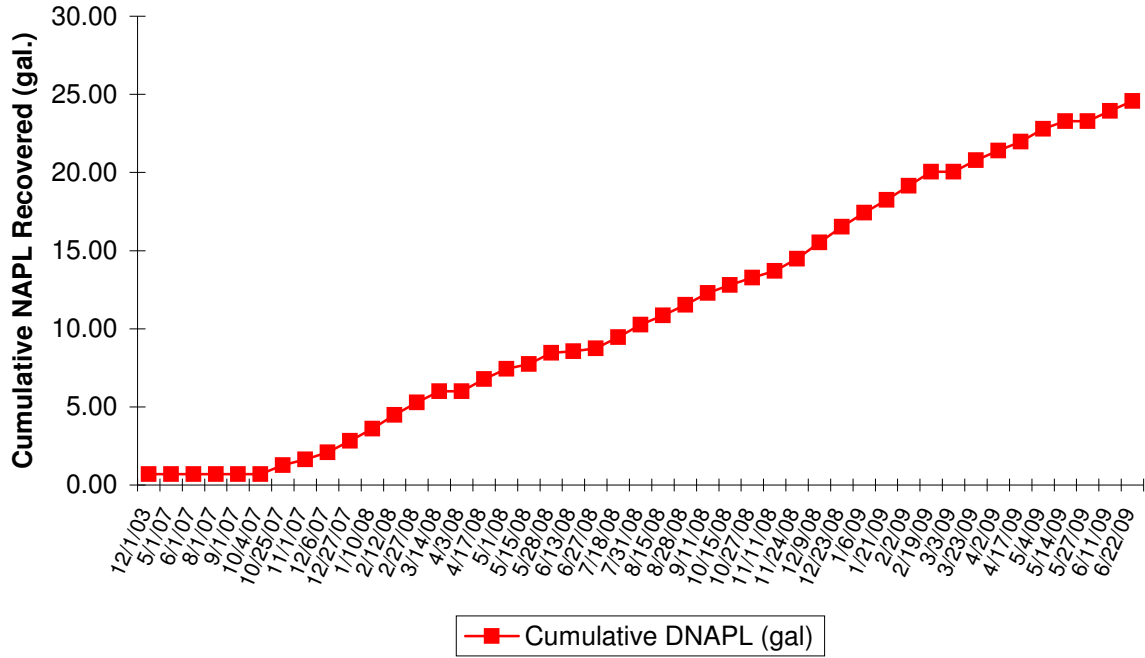


FIGURE 8I
Well HIMW-16I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

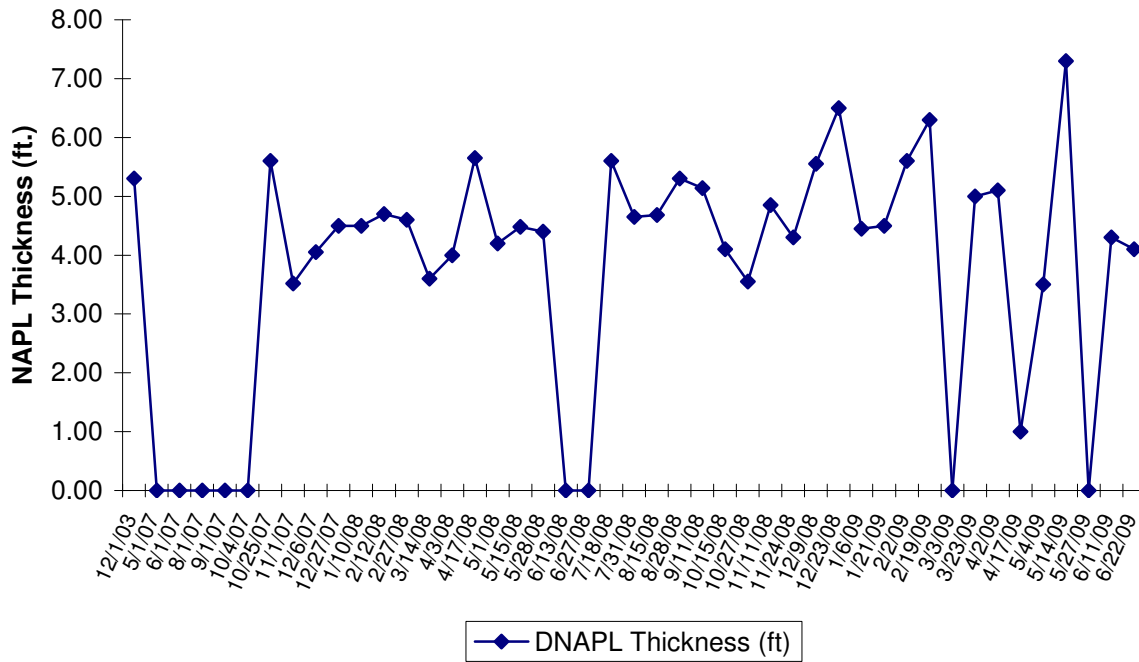
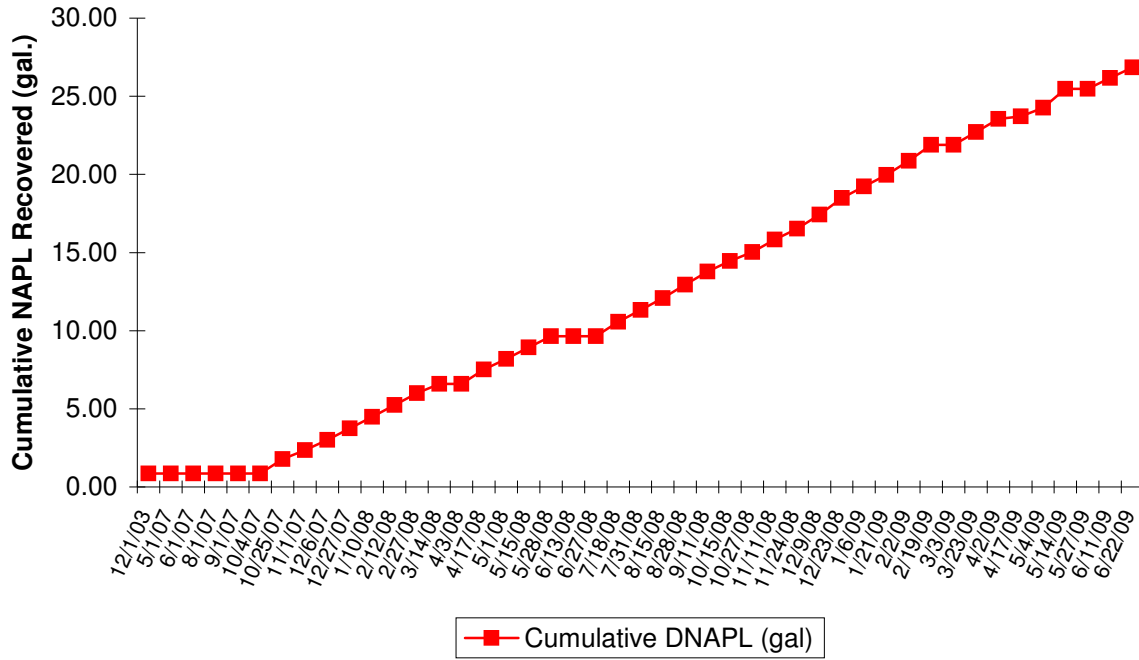


FIGURE 8J
Well HIMW-17S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

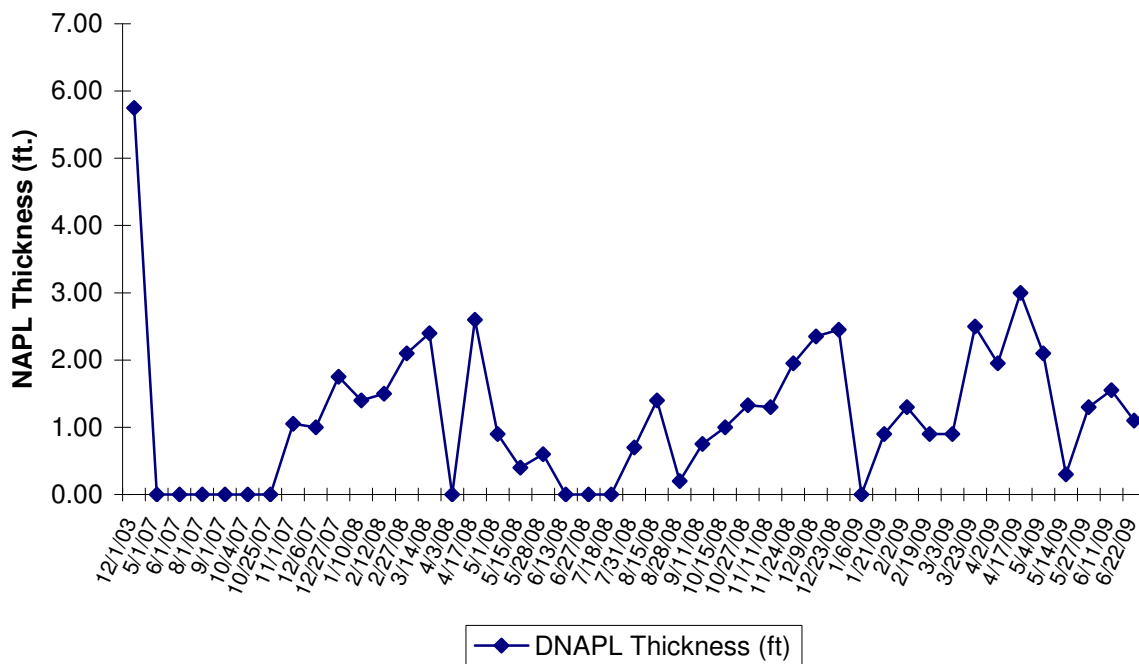
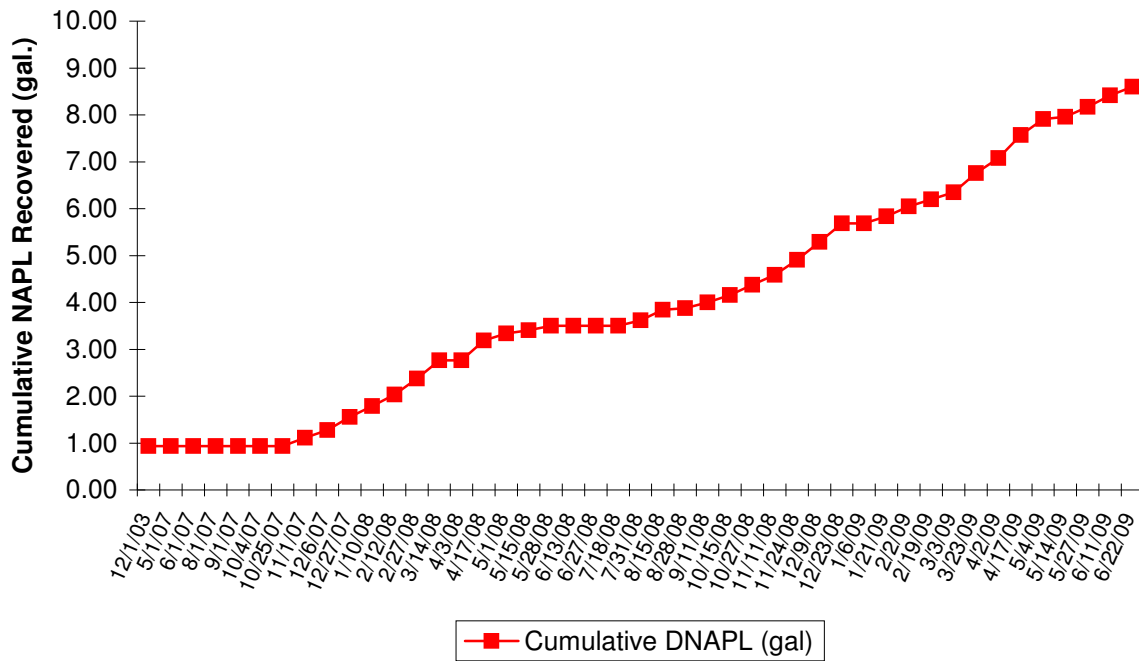


FIGURE 8K
Well HIMW-18S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

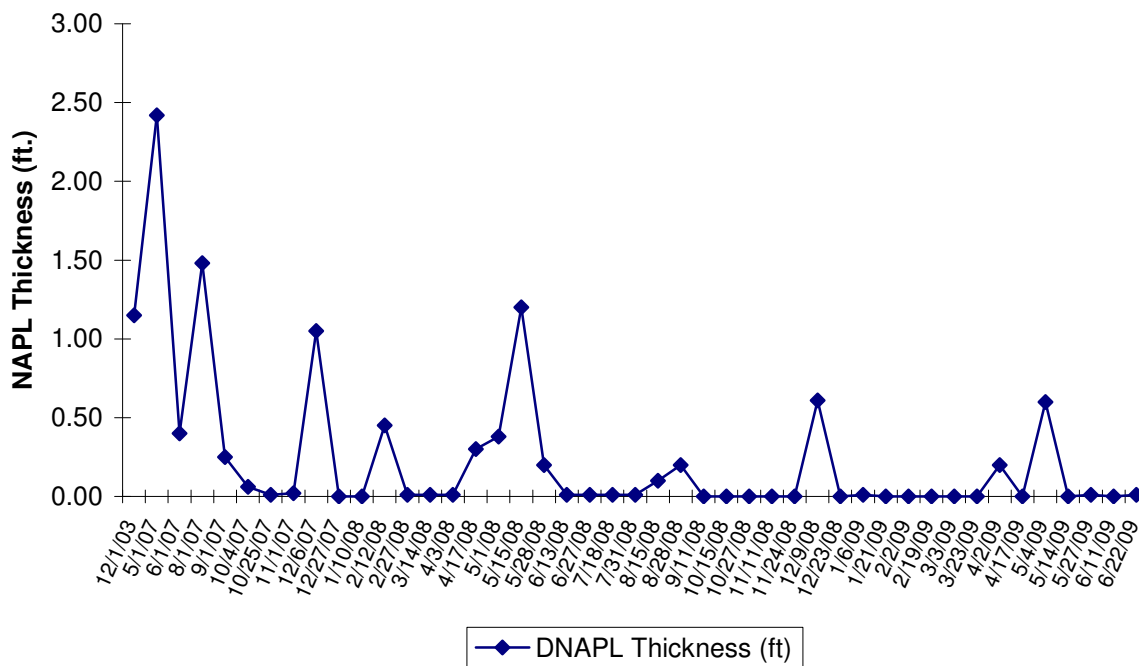
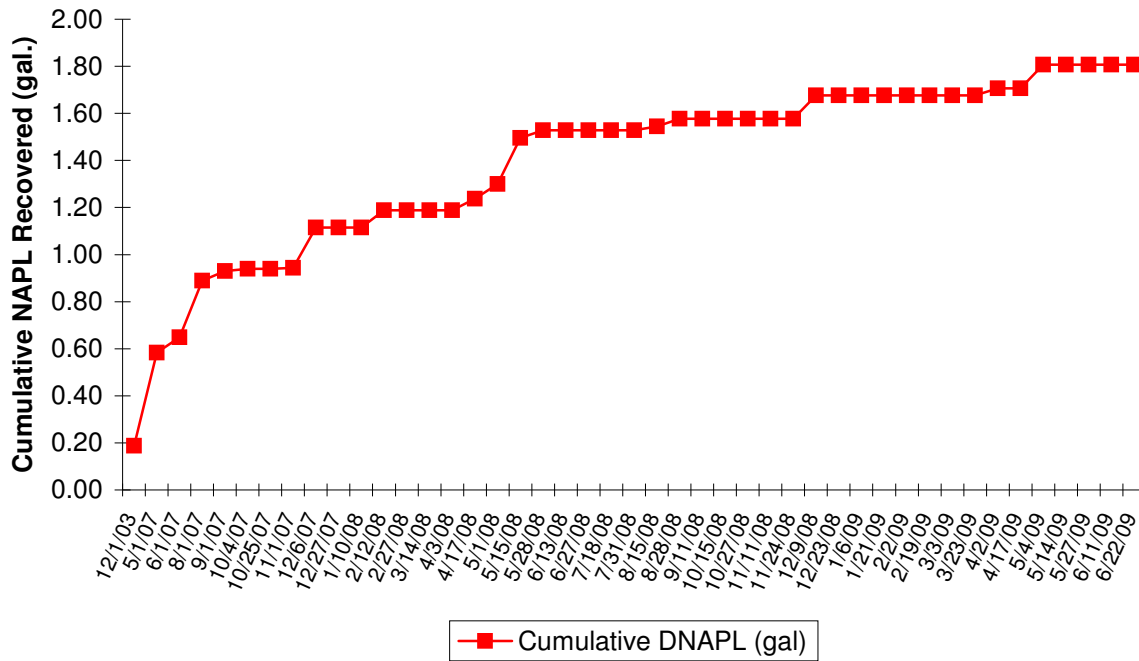


FIGURE 8L
Well HIMW-18I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

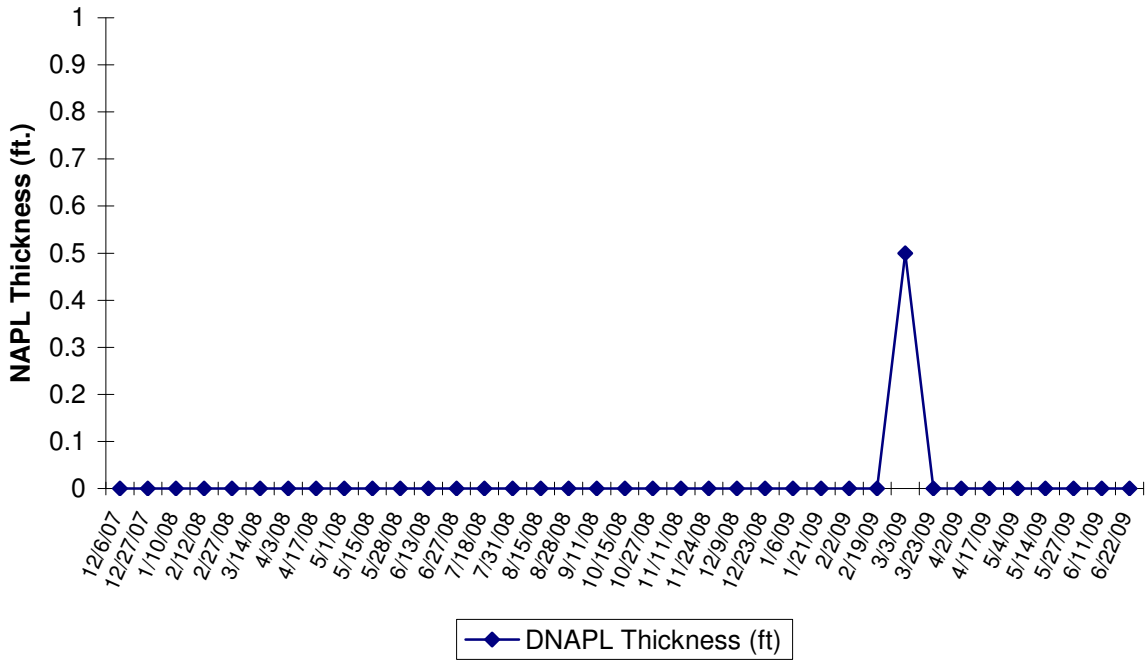
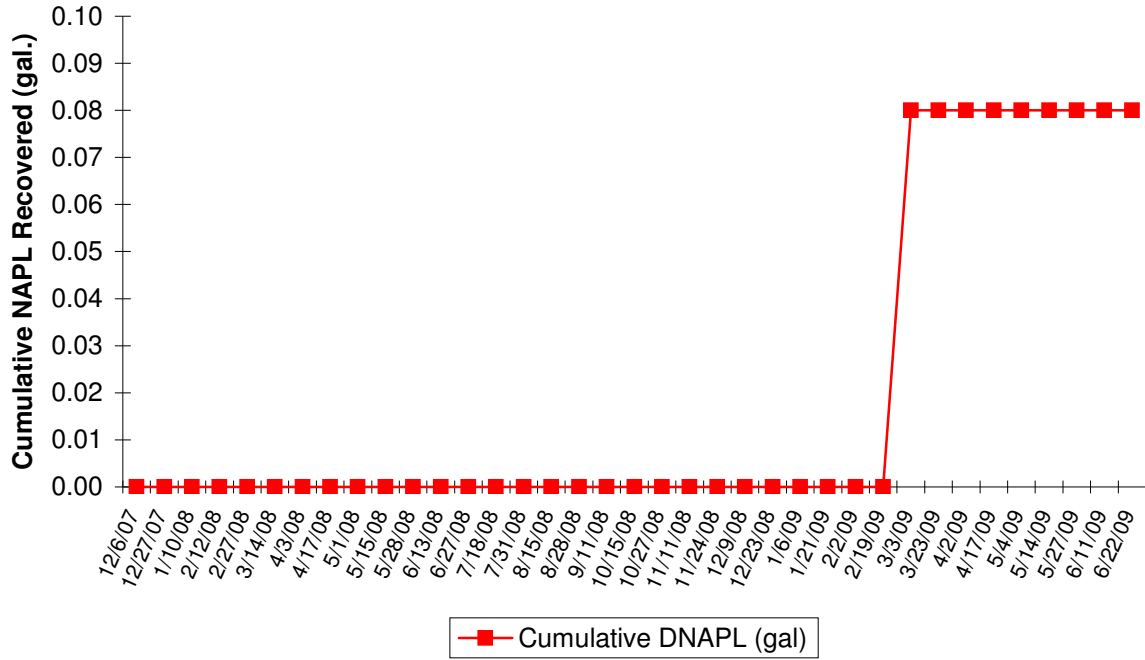


FIGURE 8M
Well HIMW-19S NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

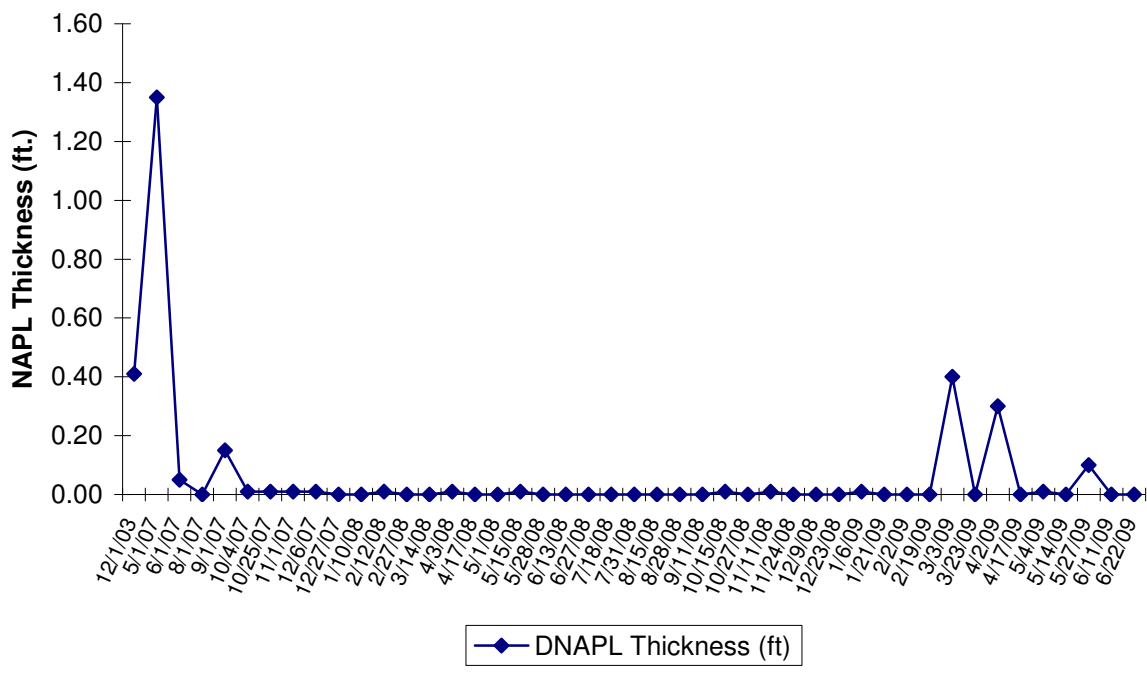
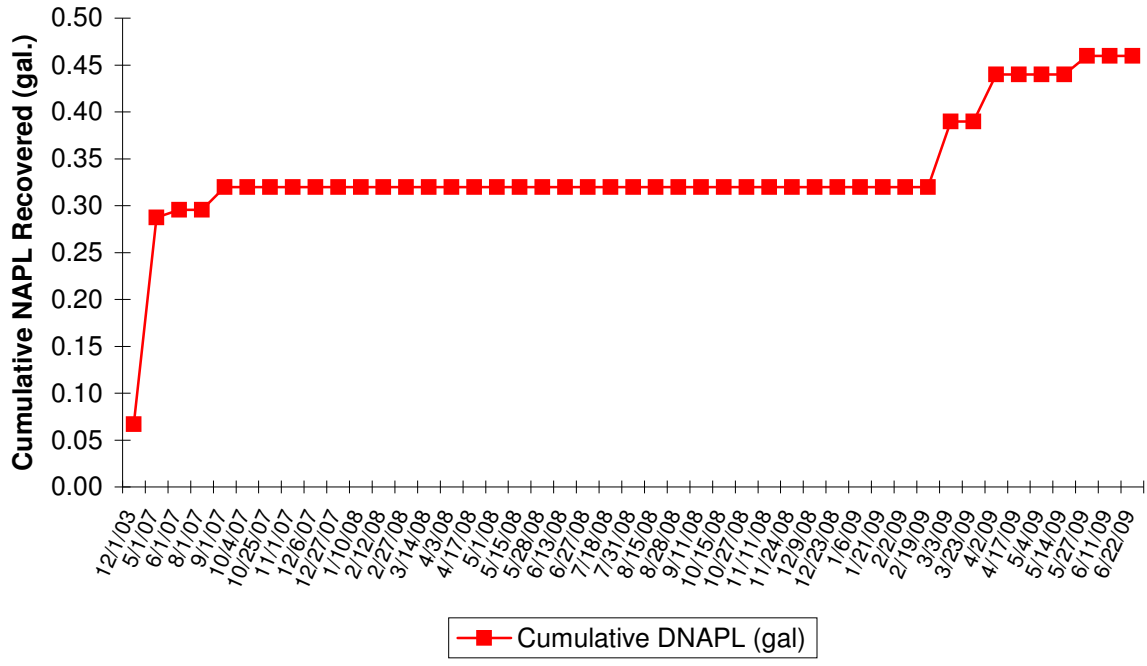


FIGURE 8N
Well HIMW-19I NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

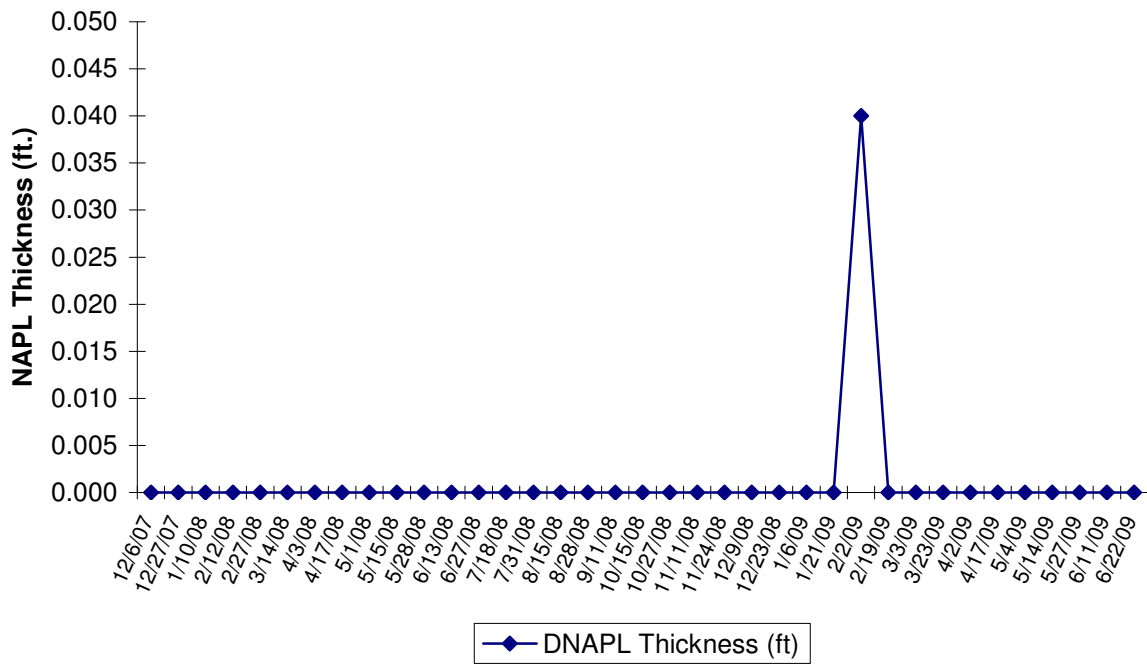
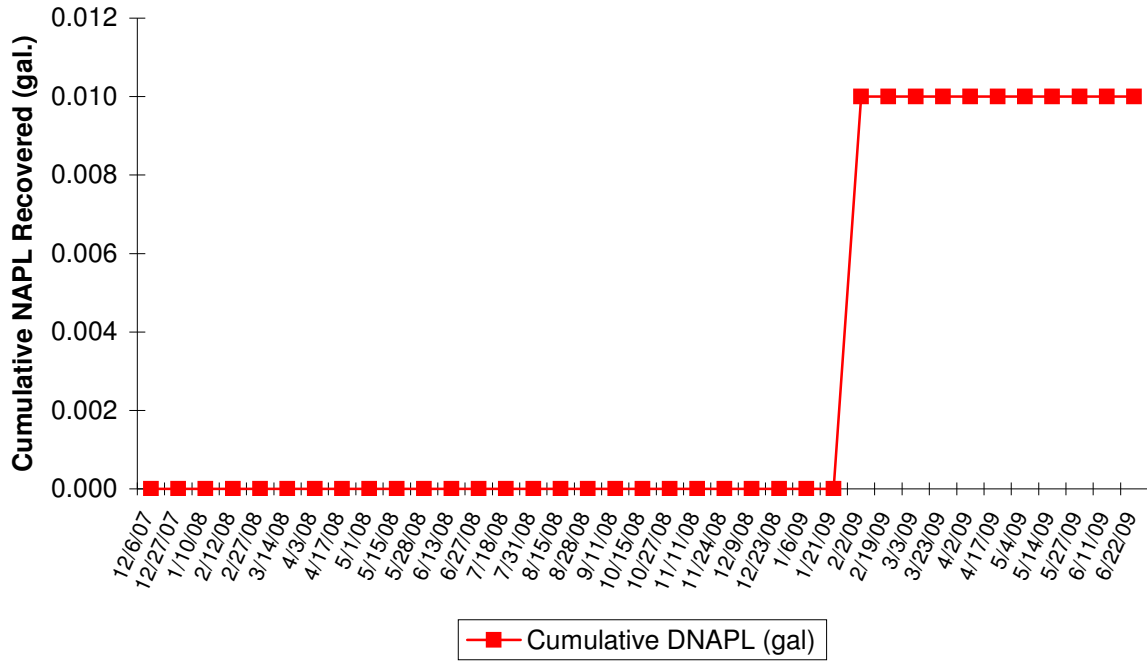


FIGURE 80
Well PZ-08 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

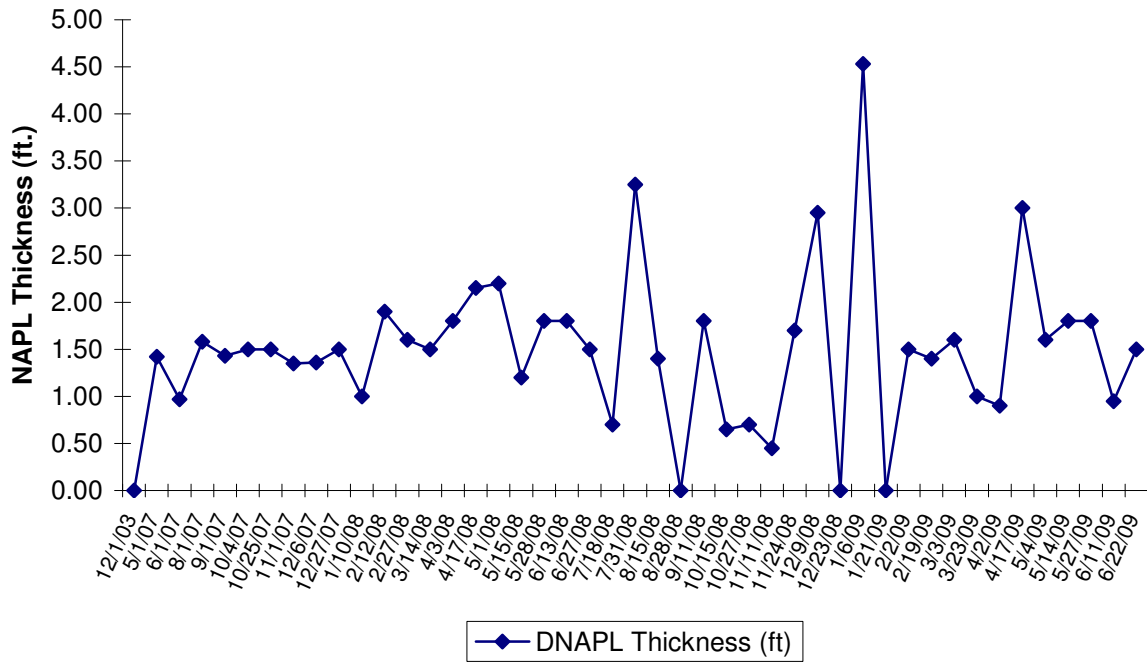
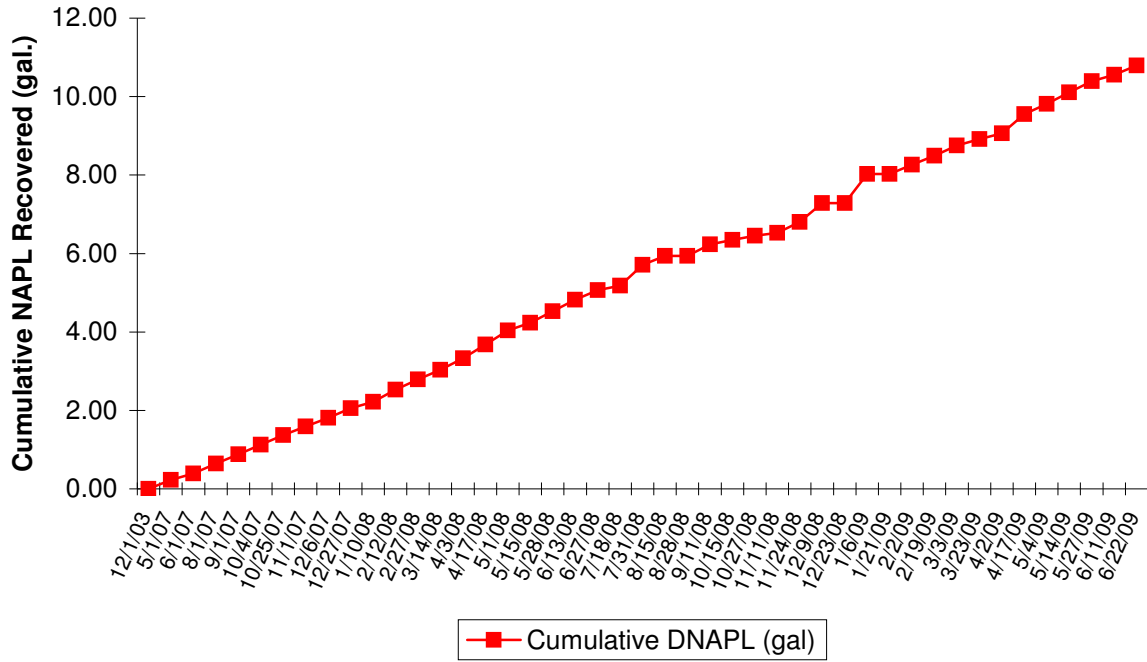


FIGURE 8P
Well IPR-02 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

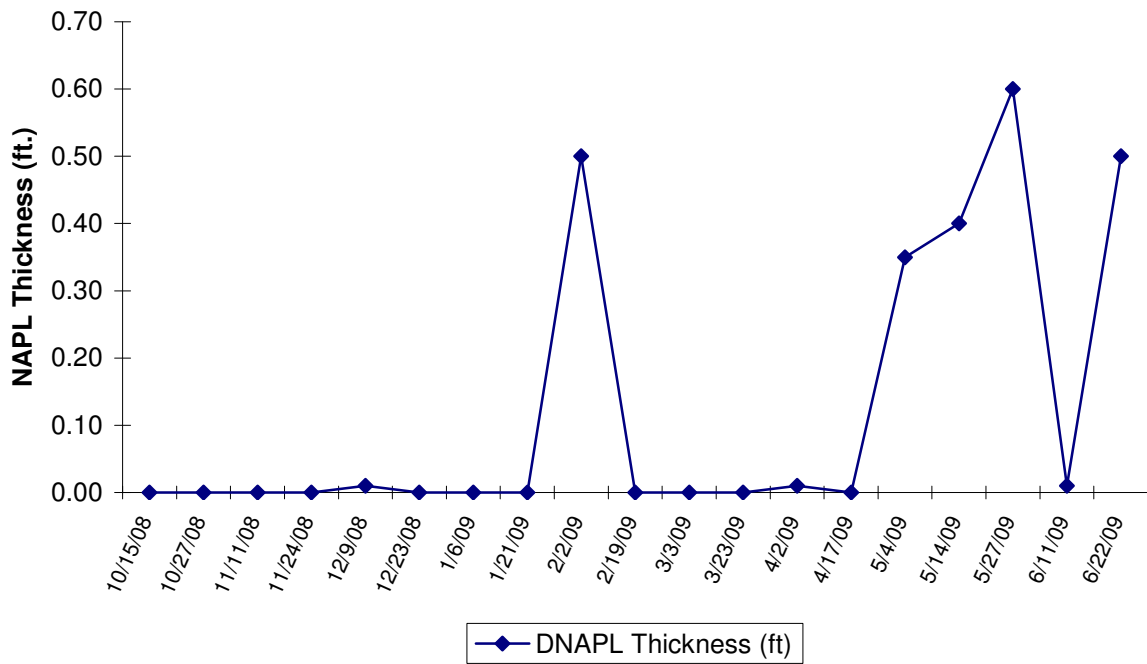
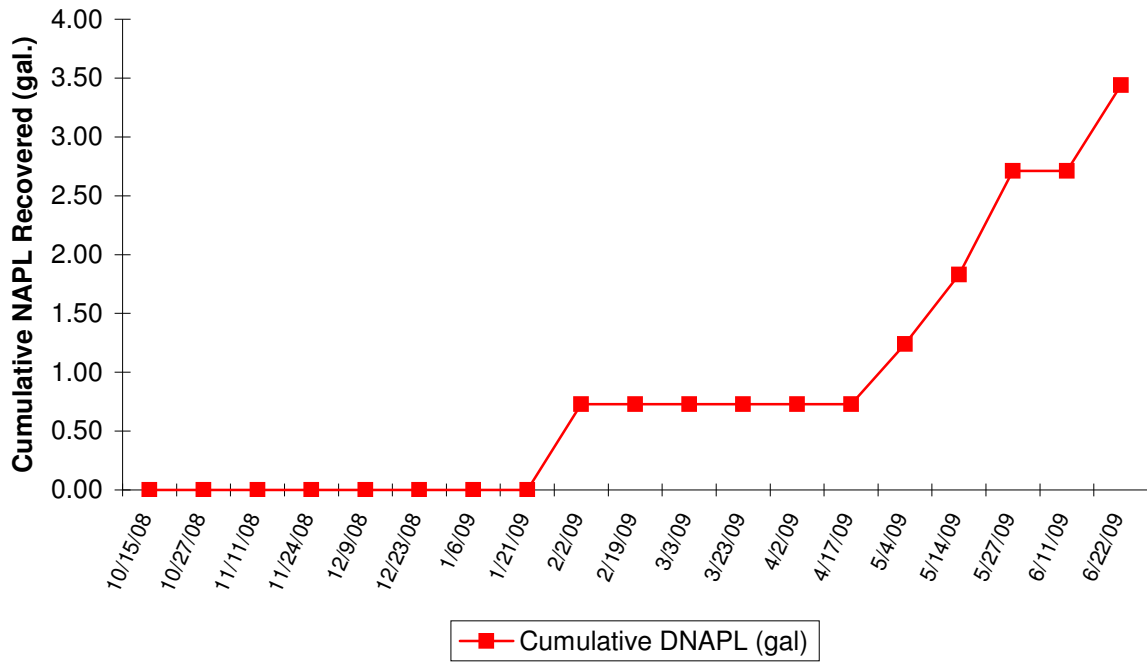


FIGURE 8Q
Well IPR-05 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

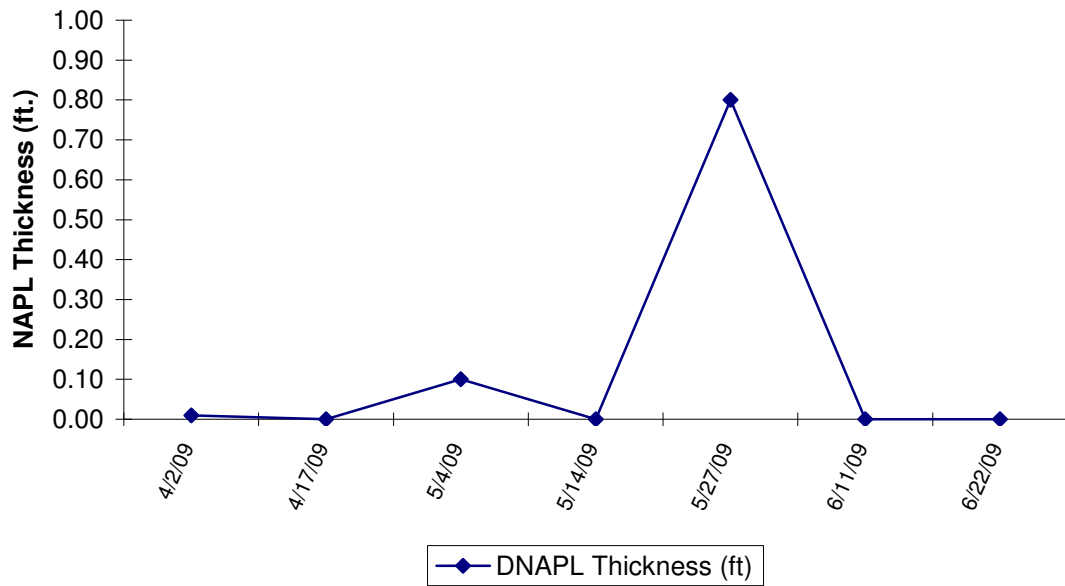
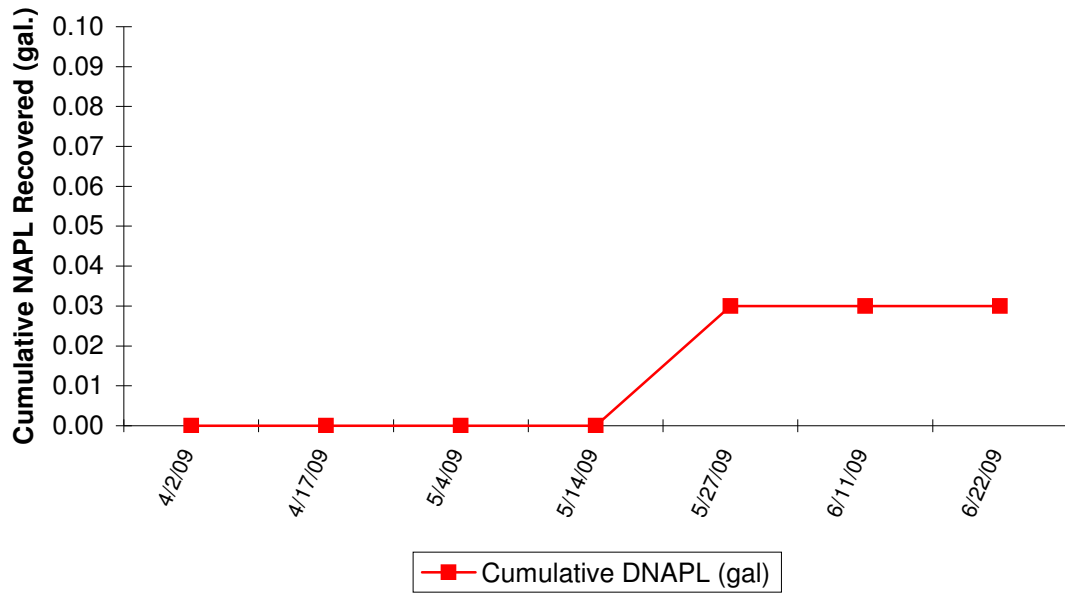


FIGURE 8R
Well IPR-06 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

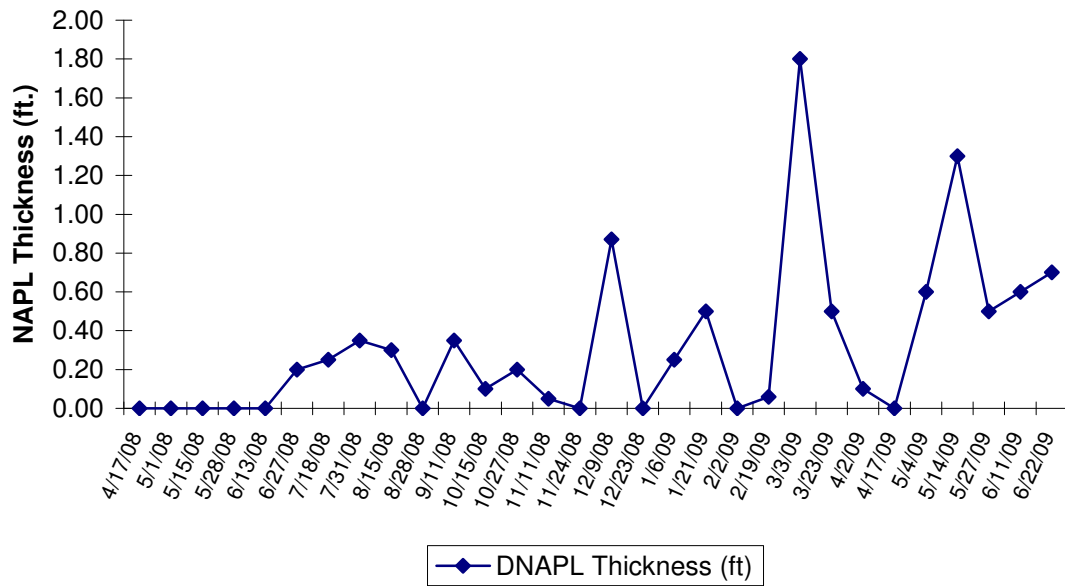
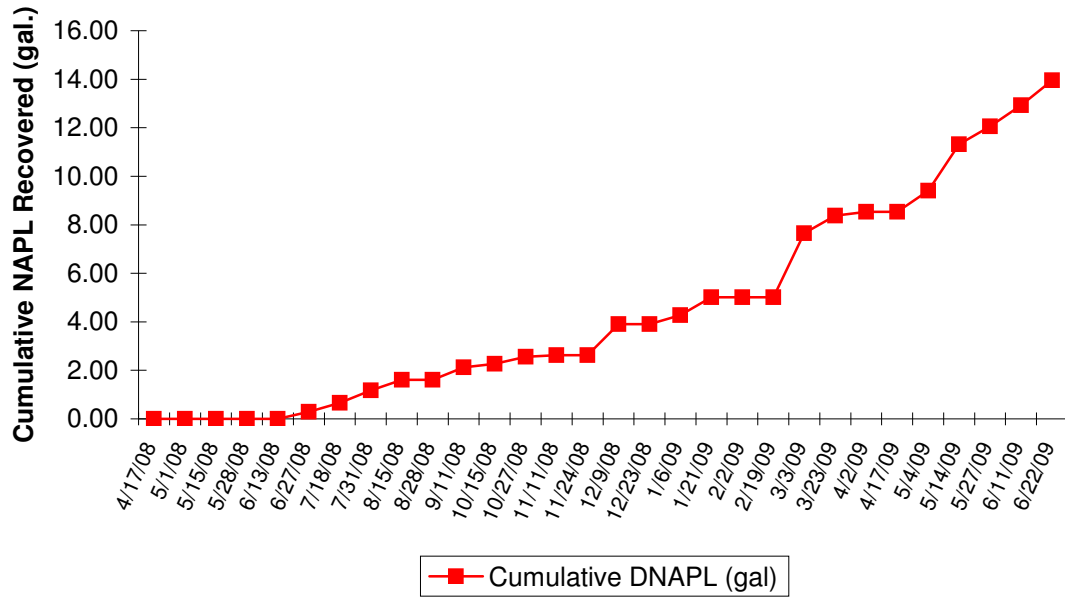


FIGURE 8S
Well IPR-12A NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

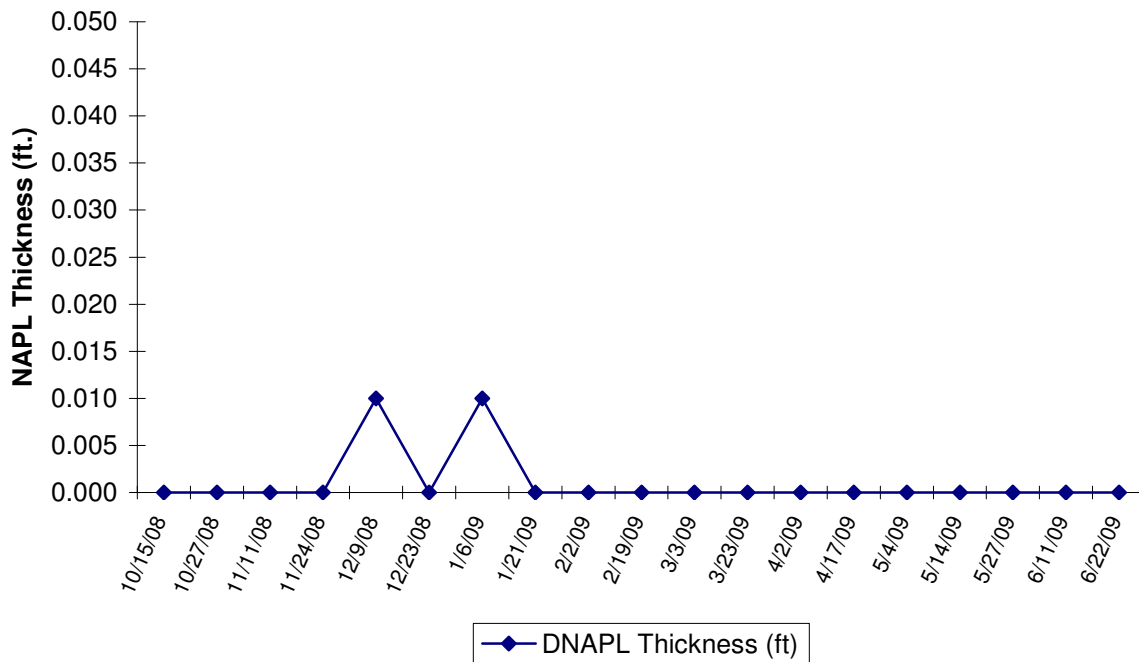
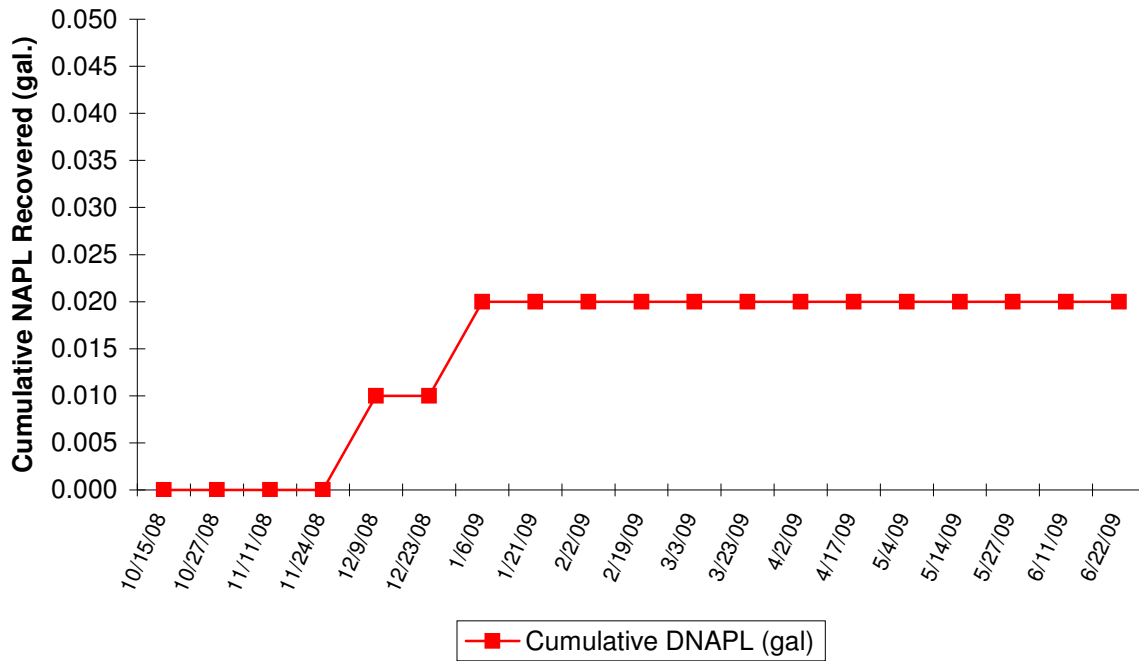


FIGURE 8T
Well IPR-15 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

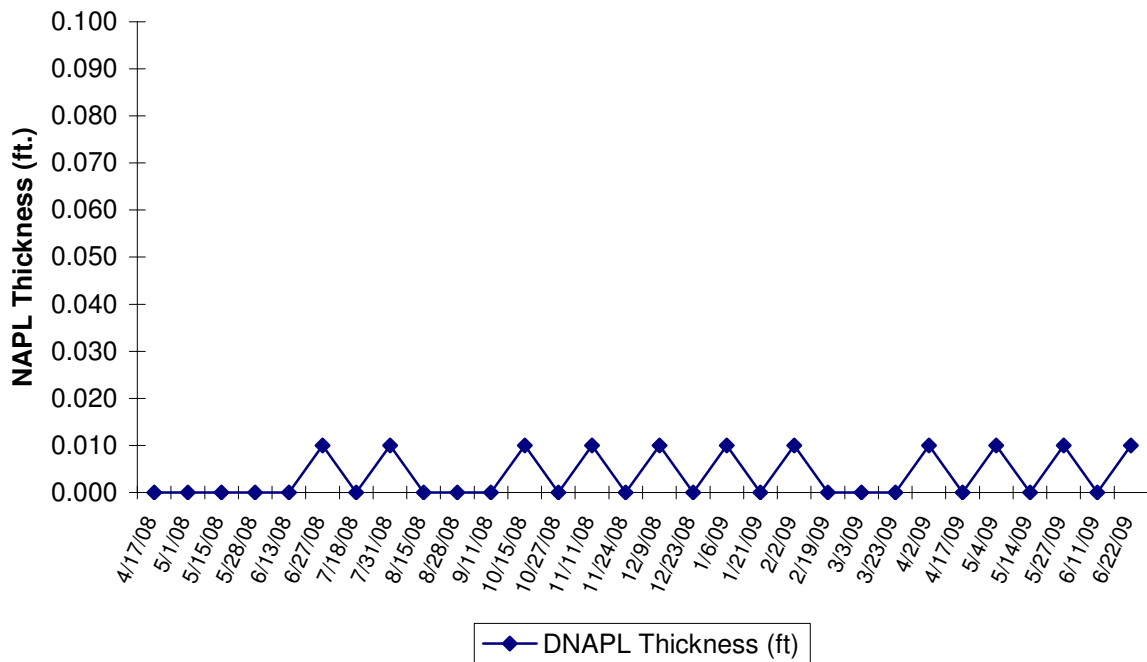
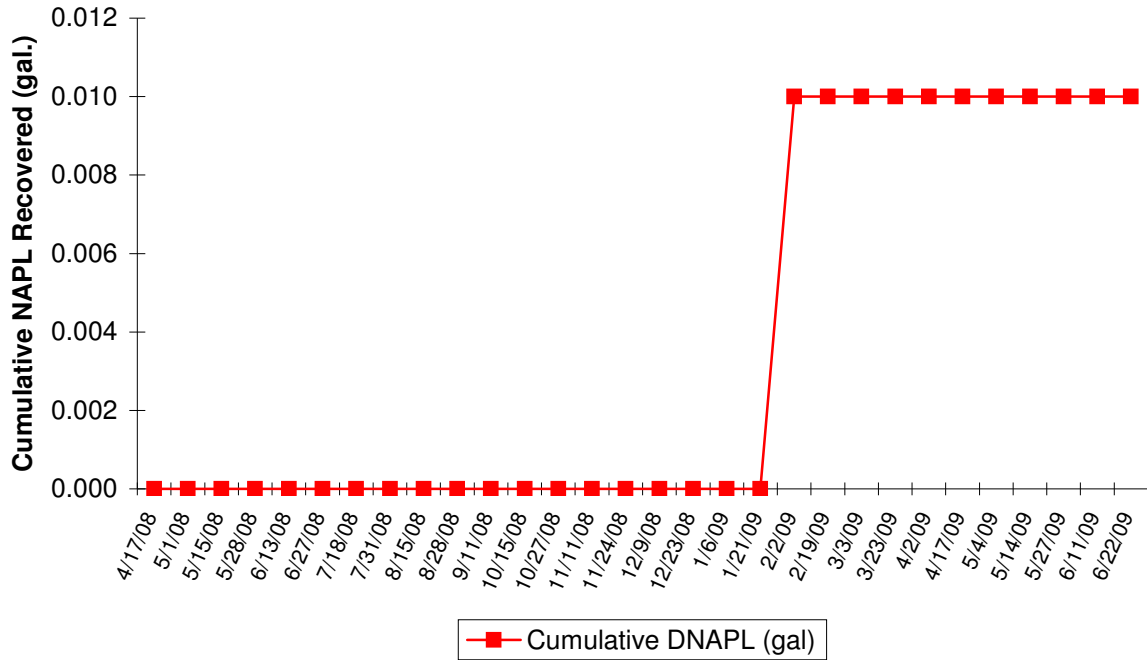


FIGURE 8U
Well IPR-16 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

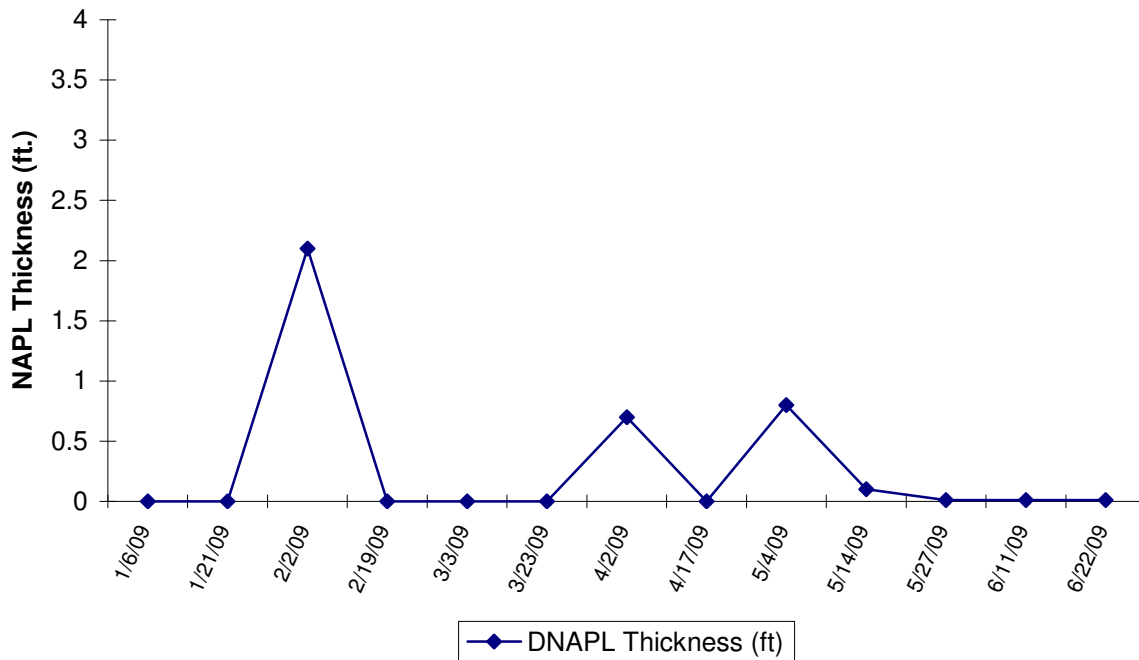
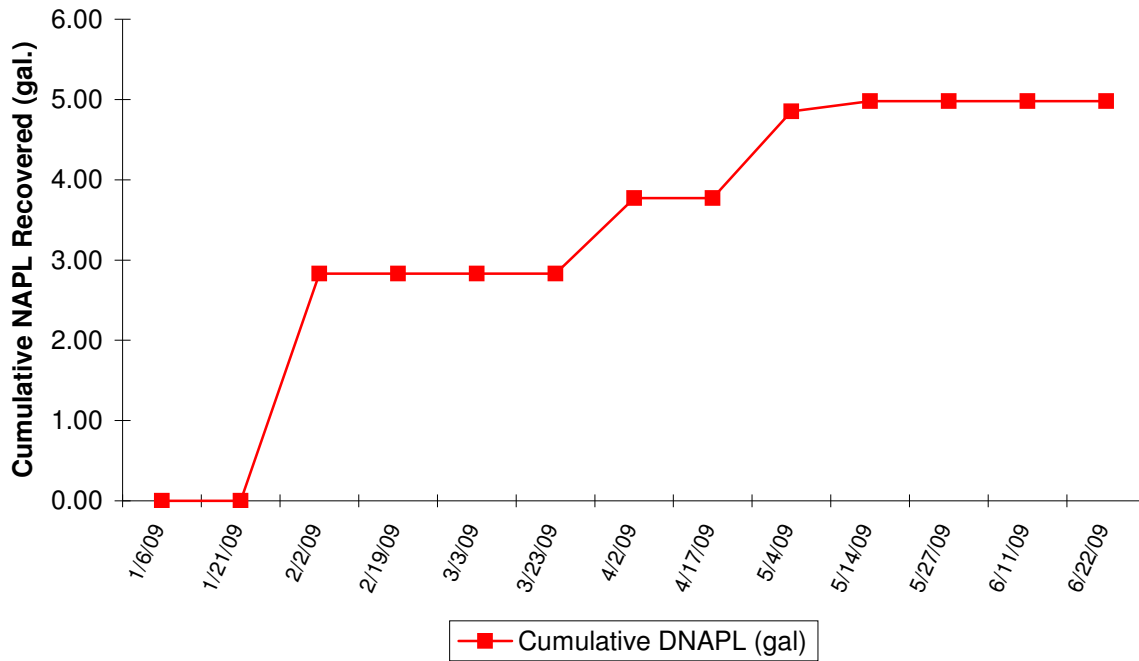


FIGURE 8V
Well IPR-17 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

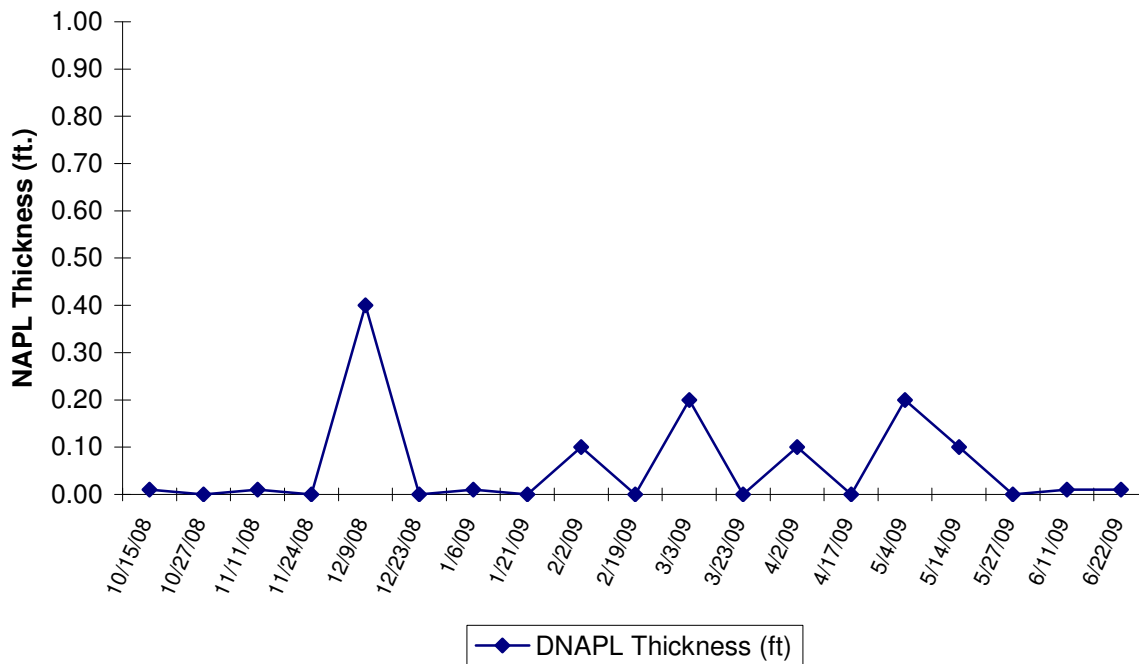
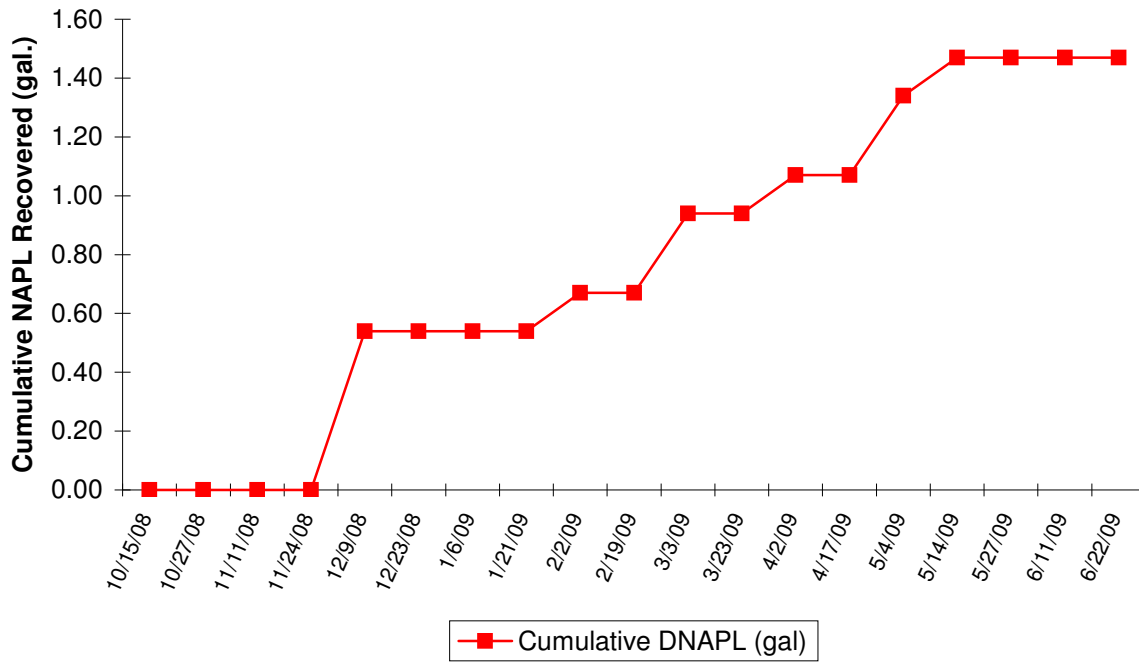


FIGURE 8W
Well IPR-20 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

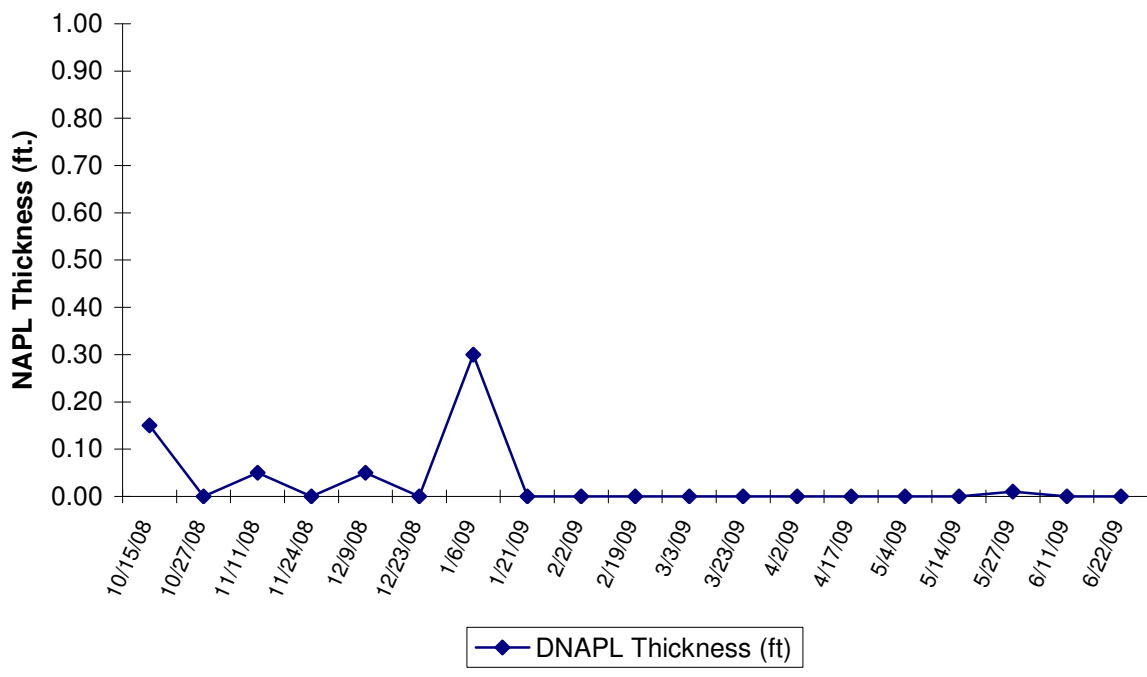
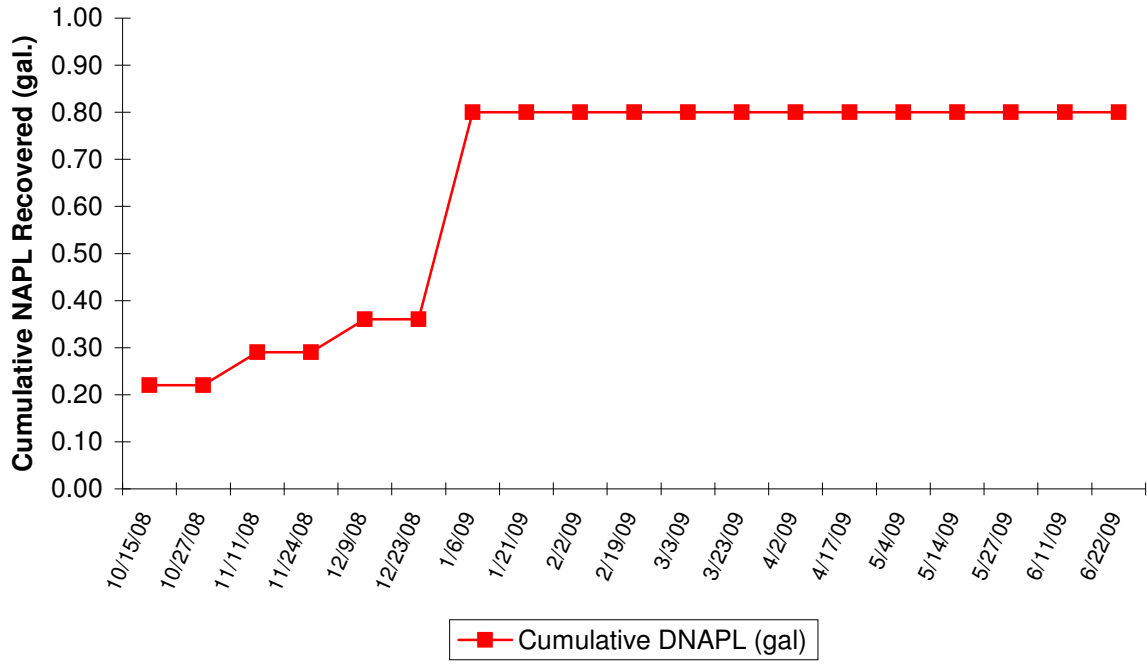


FIGURE 8X
Well IPR-21 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

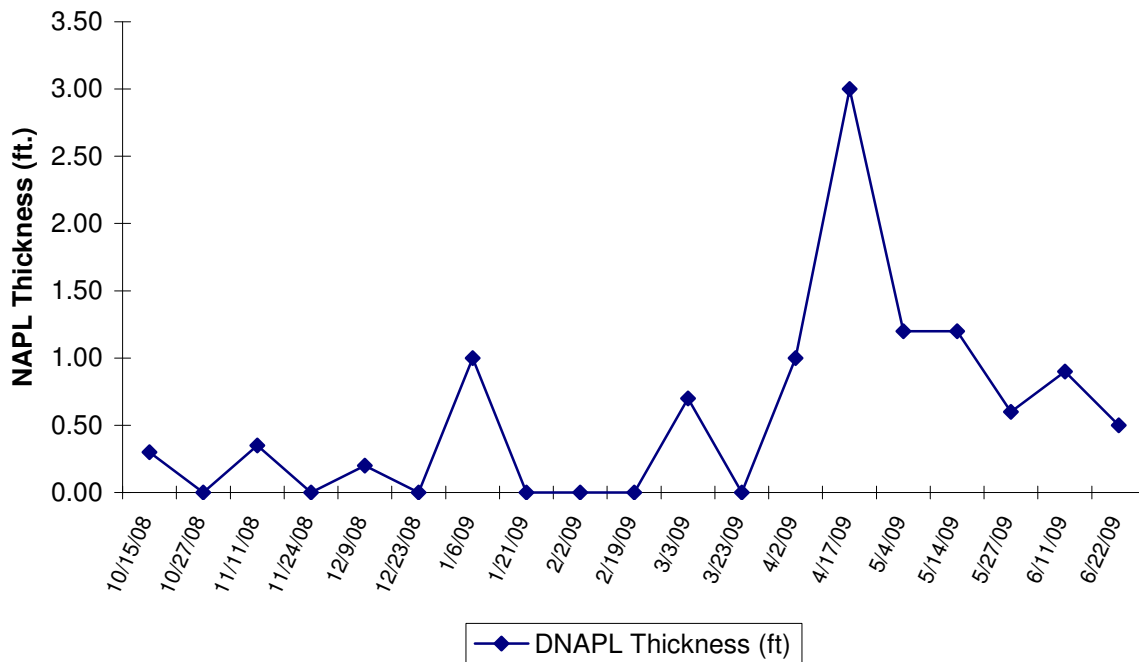
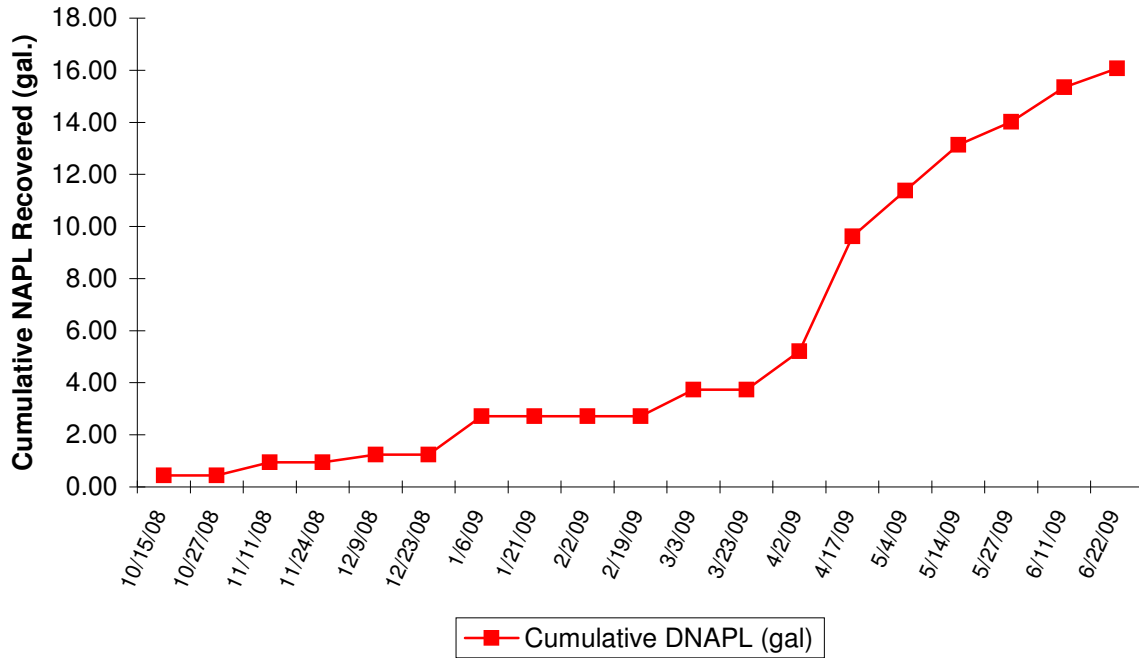


FIGURE 8Y
Well IPR-22 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

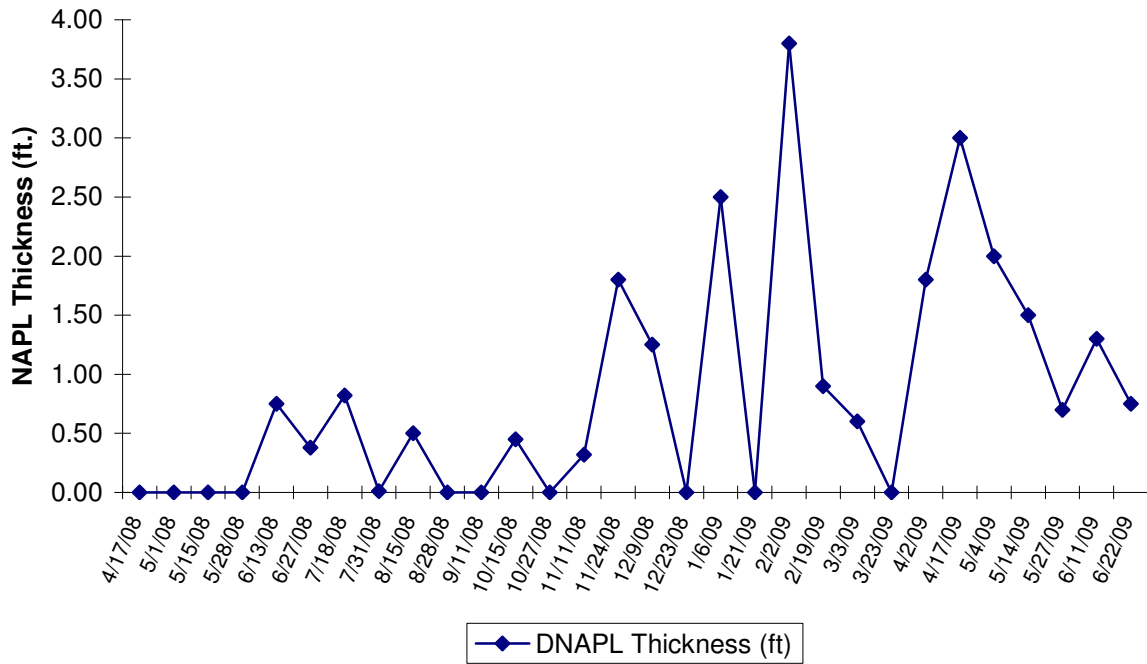
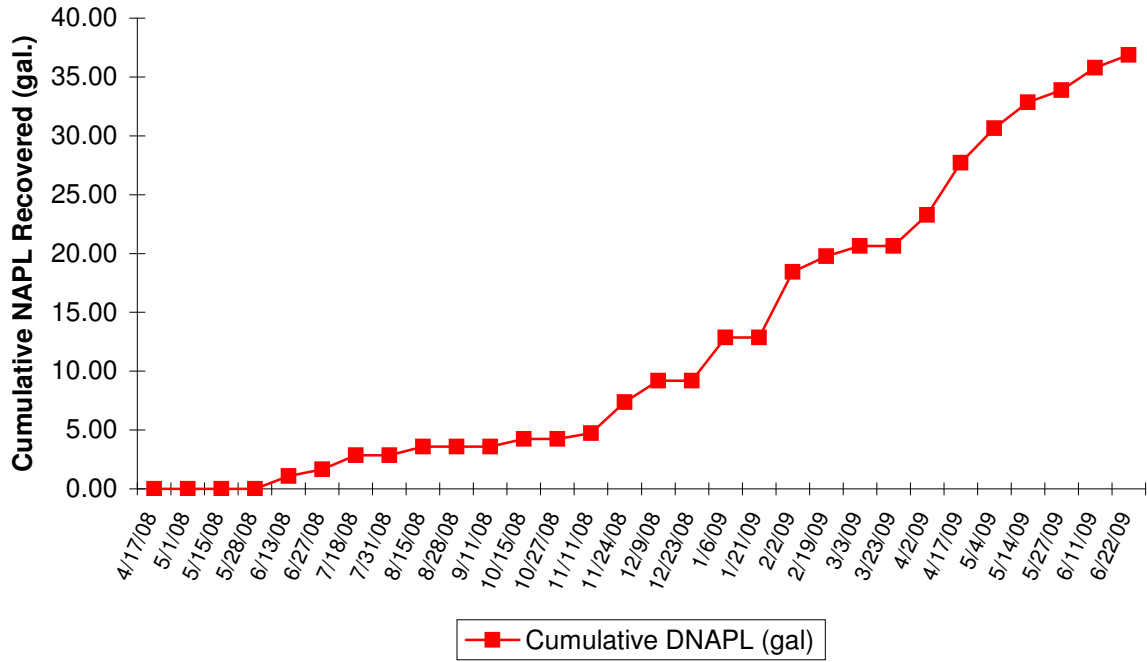


FIGURE 8Z
Well IPR-24 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site

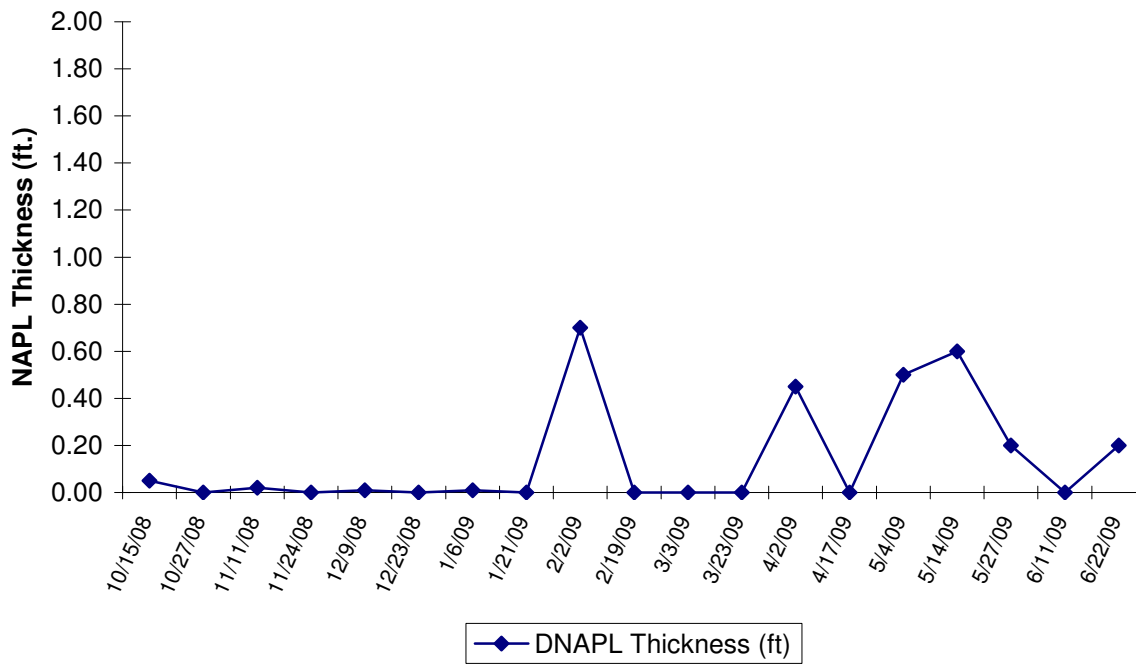
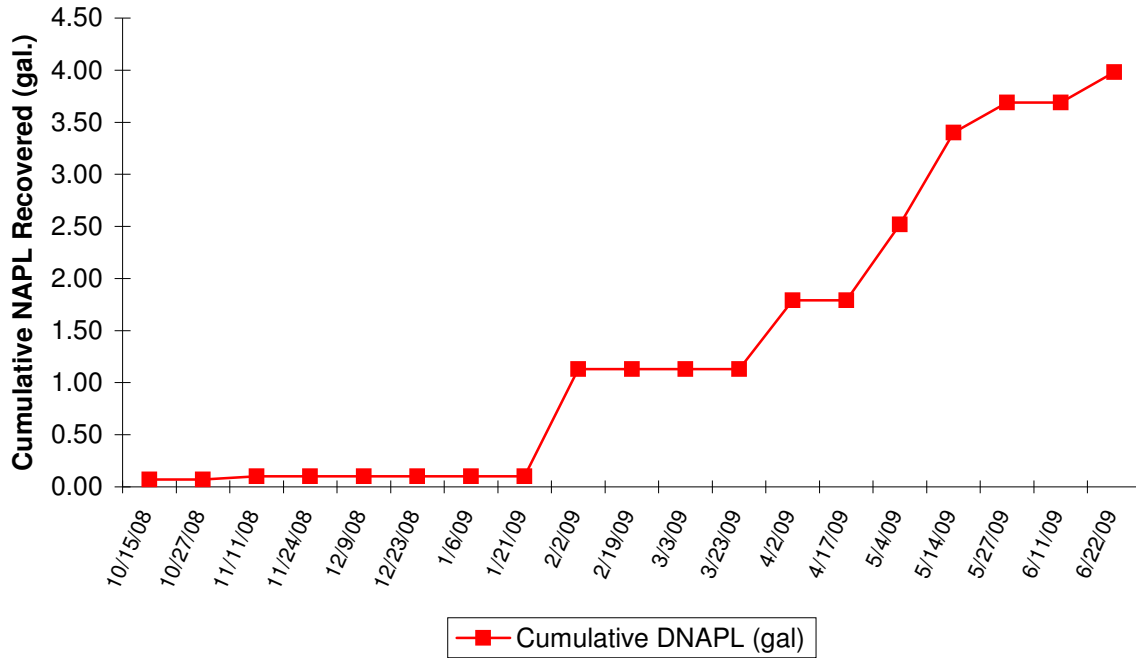
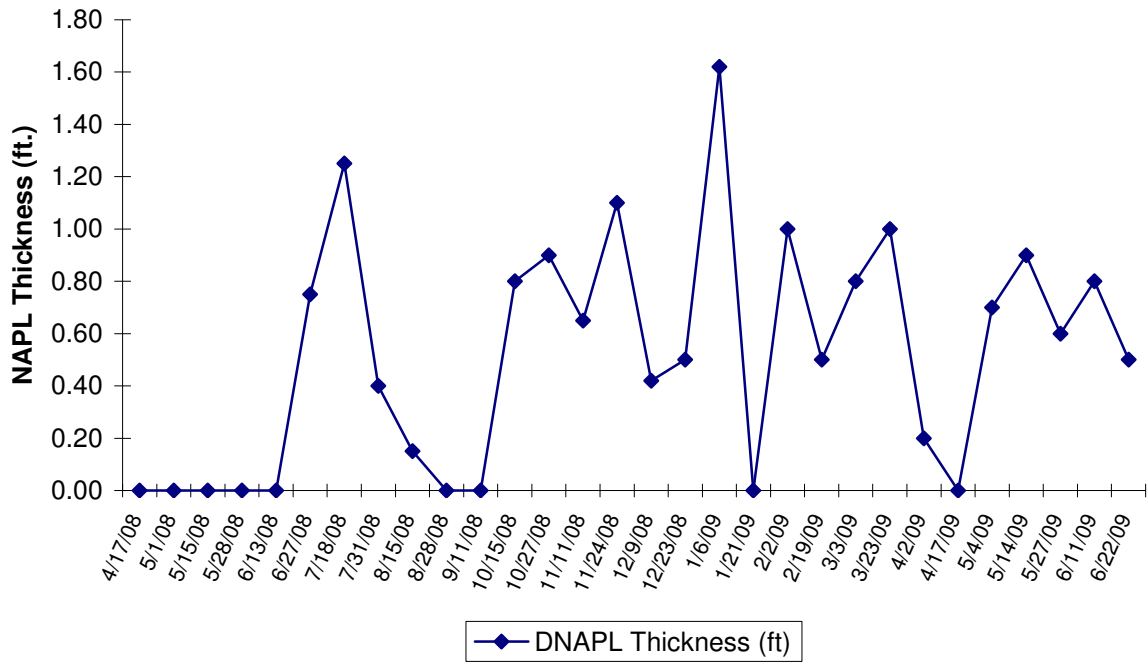
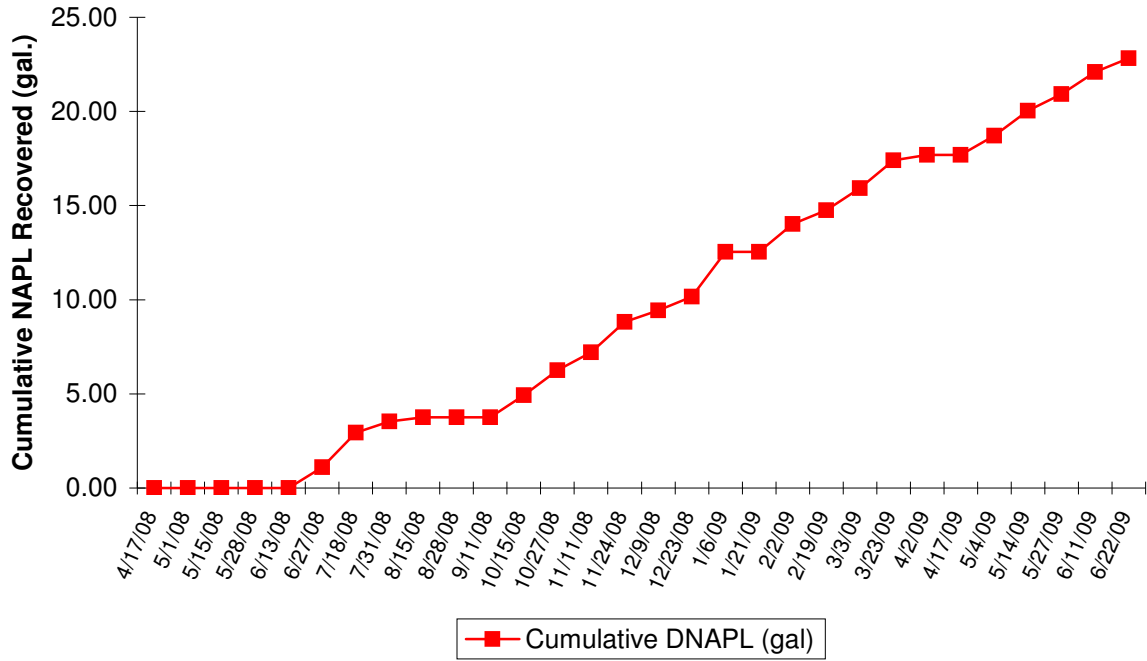


FIGURE 8AA
Well IPR-25 NAPL Thickness and Cumulative Recovery Plot
Hempstead Intersection Street Former MGP Site



ATTACHMENT A

DATA USABILITY SUMMARY REPORT

(Provided in Electronic Format Only)

**ATTACHMENT A
DATA USABILITY SUMMARY REPORT
SECOND 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**

JULY 2009

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Table A-2	Validated Field QC Sample Analytical Results

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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 two (2) trip blanks collected by URS personnel from April 23 to May 1, 2009 are discussed in this DUSR. The samples were collected as part of the second 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 and total number of sample containers were not documented on the COCs.
- The COCs did not clearly indicate what analyses were to be performed on the trip blanks. However, the laboratory did analyze the trip blanks for the appropriate analysis (i.e., BTEX).

- The parent sample ID associated with the MS/MSD was not noted on the COC. Also, the collection time for the MS/MSD was incorrectly documented on the COC. After consultation with the field technician, the laboratory manually revised the COC to include the parent sample ID (i.e., HIMW-5S) and the correct time of collection (i.e., 1:30 p.m.).
- The field sample IDs and collection time for groundwater samples HIMW-3S, HIMW-3I, and HIMW-3D were incorrectly documented on the COC as HIMW-5S (at 1:30 p.m.), HIMW-5I (at 12:40 p.m.), and HIMW-5D (at 10:50 a.m.), respectively. After consultation with URS, the laboratory manually revised the sample IDs and collection times based on the information on the sample containers.

In addition, the cooler temperature associated with groundwater samples HIMW-3S, HIMW-3I, HIMW-3D, and HIMW-13D (i.e., 7.6°C), was slightly above QC limits (i.e., 4.0°C ± 2.0°C). Based on the time the samples were picked up from the site by the lab courier (i.e., 14:10) to the time the samples arrived at the lab (i.e., 15:17), sufficient time had not expired to allow the samples to cool down to within QC limits. Therefore, no data qualification was necessary. It should be noted that USEPA Region II guidelines do not require data qualification unless the cooler temperature exceeds 10°C.

- A trip blank was not collected with groundwater samples HIMW-3S, HIMW-3I, HIMW-3D, and HIMW-13D. Since the trip blanks typically do not exhibit BTEX contamination, and the current results for these samples correlate well with historical results, no data qualification was necessary.

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

All samples were analyzed within the required holding times.

V. NON-CONFORMANCES

The BTEX initial calibration (ICAL) exhibited an average percent relative standard deviation

(%RSD) between the relative response factors (RRF) greater than 20.0% for total xylene. The detected results for the following groundwater samples were qualified 'J': HIMW-3D, HIMW-3I, HIMW-5D, HIMW-5I, HIMW-8I, HIMW-12I, HIMW-13I, and HIMW-14I (plus associated field duplicate DUP-01).

The PAH continuing calibration (CCAL) percent difference (%D) between the ICAL RRF and the CCAL RRF associated with the groundwater samples HIMW-15I and DUP-01 (parent sample HIMW-14I), was greater than 20.0% for anthracene. The anthracene results for these samples were qualified 'UJ'.

The PAH CCAL %D between the ICAL RRF and the CCAL RRF associated with the following groundwater and field QC samples was greater than 20.0% for fluorene: HIMW-3D, HIMW-3I, HIMW-3S, HIMW-5D, HIMW-5I, HIMW-5S, HIMW-8D, HIMW-8I, HIMW-8S, HIMW-12D, HIMW-12I, HIMW-12S (plus associated field duplicate DUP-02), HIMW-13D, and field blank. The fluorene results for these samples were qualified 'J' or 'UJ'.

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

VI. SAMPLE RESULTS AND REPORTING

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

Field duplicates were collected from monitoring well locations HIMW-12S and HIMW-14I. The relative percent differences were generally $\leq 20\%$, which shows good field collection and laboratory analytical precision. USEPA Region II does not require data qualification for field duplicate precision.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, 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.

Groundwater samples from monitoring well locations HIMW-20I and HIMW-20S were not collected during this quarterly sampling event due to an oversight in the field. Samples will be collected from these two monitoring well locations during the upcoming 3rd quarter sampling event. URS does not recommend the re-collection of any samples at this time.

PF
Prepared By: Peter R. Fairbanks, Sr. Project Chemist

Date: 7/14/09

Reviewed By: George E. Kisluk, Sr. Project Chemist *gek*

Date: 7/14/09

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

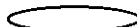
- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The sample results are reported from a separate secondary dilution analysis.
- NJ – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

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

Location ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Sample ID			HIMW-003D	HIMW-003I	HIMW-003S	HIMW-005D	HIMW-005I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/30/09	04/30/09	04/30/09	04/28/09	04/28/09
Parameter	Units	*					
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	1 U	1 U	1 U	1.6
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	5	3.5	1 U	1 U	2.5	1.5
Xylene (total)	UG/L	5	4.7 J	1.2 J	1 U	70 J	240 J
Total BTEX	UG/L	-	8.2	1.2	ND	72.5	243.1
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	370 DJ
Acenaphthene	UG/L	20	10 U	10 U	10 U	10 U	11
Acenaphthylene	UG/L	-	10 U	10 U	10 U	10 U	130 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 UJ	10 UJ	10 UJ	10 UJ	31 J
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	1,800 D
Phenanthrene	UG/L	50	10 U	10 U	10 U	10 U	13
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	ND	ND	ND	ND	2,357

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 06/24/09; Checked By_GEK 07/07/09_


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-005S	HIMW-008D	HIMW-008I	HIMW-008S	HIMW-012D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/28/09	04/29/09	04/29/09	04/29/09	04/27/09
Parameter	Units	*					
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	1 U	3.1	1 U	1 U
Ethylbenzene	UG/L	5	1 U	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	1 U	1 U	5.5 J	1 U	1 U
Total BTEX	UG/L	-	ND	ND	8.6	ND	ND
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	7 J	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	3 J	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 UJ	10 UJ	10 UJ	10 UJ	10 UJ
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	36	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
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	ND	46	ND	ND	ND

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 05/24/09_; Checked By_GEK 07/07/09_

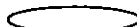
Detection Limits shown are PQL

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

Location ID			HIMW-012I	HIMW-012S	HIMW-012S	HIMW-013D	HIMW-013I
Sample ID			HIMW-012I	DUP-02	HIMW-012S	HIMW-013D	HIMW-013I
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/27/09	04/27/09	04/27/09	05/01/09	04/24/09
Parameter	Units	*		Field Duplicate (1-1)			
Volatile Organic Compounds							
Benzene	UG/L	1	28	1 U	1 U	2.8	26
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	1.4
Toluene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	5	1.2 J	1 U	1 U	1 U	5.2 J
Total BTEX	UG/L	-	29.2	ND	ND	2.8	32.6
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/L	-	10 U	10 U	10 U	10 U	10 U
Acenaphthene	UG/L	20	24	10 U	10 U	2 J	4 J
Acenaphthylene	UG/L	-	23	10 U	10 U	5 J	39
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	13 J	10 UJ	10 UJ	10 UJ	9 J
Indeno(1,2,3-cd)pyrene	UG/L	0.002	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10	2 J	10 U	10 U	10 U	10 U
Phenanthrene	UG/L	50	3 J	10 U	10 U	10 U	8 J
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	65	ND	ND	7	60

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 06/24/09; Checked By_GEK 07/07/09_

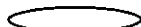
Detection Limits shown are PQL

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

Location ID			HIMW-013S	HIMW-014D	HIMW-014I	HIMW-014I	HIMW-015D
Sample ID			HIMW-013S	HIMW-014D	DUP-01	HIMW-014I	HIMW-015D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/24/09	04/23/09	04/24/09	04/24/09	04/23/09
Parameter	Units	*			Field Duplicate (1-1)		
Volatile Organic Compounds							
Benzene	UG/L	1	1 U	1 U	65	53	1 U
Ethylbenzene	UG/L	5	1 U	1 U	3.1	1.4	1 U
Toluene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	5	1 U	1 U	4.5 J	2.1 J	1 U
Total BTEX	UG/L	-	ND	ND	72.6	56.5	ND
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	11	12	10 U
Acenaphthylene	UG/L	-	10 U	10 U	15	17	10 U
Anthracene	UG/L	50	10 U	10 U	10 UJ	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	5 J	6 J	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	1 J	1 J	10 U
Phenanthrene	UG/L	50	10 U	10 U	4 J	5 J	10 U
Pyrene	UG/L	50	10 U	10 U	10 U	10 U	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	ND	ND	36	41	ND

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 06/24/09; Checked By_GEK 07/07/09

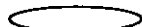
Detection Limits shown are PQL

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

Location ID			HIMW-015I
Sample ID			HIMW-015I
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			04/23/09
Parameter	Units	*	
Volatile Organic Compounds			
Benzene	UG/L	1	18
Ethylbenzene	UG/L	5	1 U
Toluene	UG/L	5	1 U
Xylene (total)	UG/L	5	1 U
Total BTEX	UG/L	-	18
Semivolatile Organic Compounds			
2-Methylnaphthalene	UG/L	-	10 U
Acenaphthene	UG/L	20	2 J
Acenaphthylene	UG/L	-	9 J
Anthracene	UG/L	50	10 UJ
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	10 U
Pyrene	UG/L	50	10 U
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	11

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 06/24/09_; Checked By_GEK 07/07/09_


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	FIELDQC
Sample ID			TB 042409	FIELD BLANK	TRIP BLANK
Matrix			Water Quality	Water Quality	Water Quality
Depth Interval (ft)			-	-	-
Date Sampled			04/24/09	04/29/09	04/29/09
Parameter	Units	*	Trip Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Benzene	UG/L	1	1 U	1 U	1 U
Ethylbenzene	UG/L	5	1 U	1 U	1 U
Toluene	UG/L	5	1 U	1 U	1 U
Xylene (total)	UG/L	5	1 U	1 U	1 U
Total BTEX	UG/L	-	ND	ND	ND
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/L	-	NA	10 U	NA
Acenaphthene	UG/L	20	NA	10 U	NA
Acenaphthylene	UG/L	-	NA	10 U	NA
Anthracene	UG/L	50	NA	10 U	NA
Benzo(a)anthracene	UG/L	0.002	NA	10 U	NA
Benzo(a)pyrene	UG/L	ND	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	0.002	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	-	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	0.002	NA	10 U	NA
Chrysene	UG/L	0.002	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	-	NA	10 U	NA
Fluoranthene	UG/L	50	NA	10 U	NA
Fluorene	UG/L	50	NA	10 UJ	NA
Indeno(1,2,3-cd)pyrene	UG/L	0.002	NA	10 U	NA
Naphthalene	UG/L	10	NA	10 U	NA
Phenanthrene	UG/L	50	NA	10 U	NA
Pyrene	UG/L	50	NA	10 U	NA
Total Polynuclear Aromatic Hydrocarbons	UG/L	-	NA	ND	NA

* - 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

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.

NA - The sample was not analyzed for this parameter. ND - Not detected.

Made By_PRF 06/24/09; Checked By_GEK 07/07/09_

Detection Limits shown are PQL

APPENDIX A
VALIDATED FORM I'S

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905063-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6897.D

Level: (low/med) LOW Date Received: 04/25/09

% Moisture: not dec. Date Analyzed: 05/04/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
71-43-2	Benzene	26	Q
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.4	
1330-20-7	Xylene (total)	5.2	J

6/23/09

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-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905063-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6898.D

Level: (low/med) LOW Date Received: 04/25/09

% Moisture: not dec. Date Analyzed: 05/04/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <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

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905063-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6899.D
 Level: (low/med) LOW Date Received: 04/25/09
 % Moisture: not dec. Date Analyzed: 05/04/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

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

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905063-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6900.D
 Level: (low/med) LOW Date Received: 04/25/09
 % Moisture: not dec. Date Analyzed: 05/04/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
71-43-2	Benzene	53	Q
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1.4	
1330-20-7	Xylene (total)	2.1	J

6/23/09
a

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water)

WATERLab Sample ID: 0905063-005ASample wt/vol: 5(g/mL) MLLab File ID: E6901.D

Level: (low/med)

LOWDate Received: 04/25/09

% Moisture: not dec.

Date Analyzed: 05/04/09GC Column: Rtx1.ID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
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

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-15I

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS062

Matrix: (soil/water)

WATERLab Sample ID: 0905063-006ASample wt/vol: 5(g/mL) MLLab File ID: E6902.D

Level: (low/med)

LOWDate Received: 04/25/09

% Moisture: not dec.

Date Analyzed: 05/04/09GC Column: Rtx1ID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
71-43-2	Benzene	18	Q
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-01

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905063-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6903.D

Level: (low/med) LOW Date Received: 04/25/09

% Moisture: not dec. Date Analyzed: 05/04/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <u>UG/L</u>	<u>Q</u>
71-43-2	Benzene	65	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	3.1	
1330-20-7	Xylene (total)	4.5	J

6/23/09
a

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 042409

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905063-008A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6904.D
 Level: (low/med) LOW Date Received: 04/25/09
 % Moisture: not dec. Date Analyzed: 05/04/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-5D

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 1047B Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-001A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6905.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/04/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	2.5	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	70	J

7/1/09

KEY-URS062 V54 Reissued CLG 30-Jun-09

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6906.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: not dec. Date Analyzed: 05/04/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or pg/Kg) UG/L	Q
71-43-2	Benzene	1.6	
108-88-3	Toluene	1.5	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	240	J

6/23/09
2

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS062

Matrix: (soil/water)

WATERLab Sample ID: 0905179-003ASample wt/vol: 5(g/mL) MLLab File ID: E6907.D

Level: (low/med)

LOWDate Received: 04/29/09

% Moisture: not dec.

Date Analyzed: 05/04/09GC Column: Rtx1ID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume: _____ (µL)

Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-004A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6910.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

1A
VOLATILE 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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-005A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6911.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
71-43-2	Benzene	3.1	Q
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	5.5	J

6/23/09
2

KEY-URS062 S41

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-8S

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6912.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: not dec. Date Analyzed: 05/05/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <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

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-007A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6913.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-008A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6914.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: not dec. Date Analyzed: 05/05/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	28	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1.2	J

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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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-009A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6915.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or pg/Kg) <u>UG/L</u>	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-02

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905179-010A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6935.D
 Level: (low/med) LOW Date Received: 04/29/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

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Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-011A

Sample wt/vol: 5 (g/mL) ML Lab File ID: E6936.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: not dec. Date Analyzed: 05/05/09

GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <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

VOLATILE ORGANICS ANALYSIS DATA SHEET

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Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water)

WATERLab Sample ID: 0905179-012ASample wt/vol: 5(g/mL) MLLab File ID: E6937.D

Level: (low/med)

LOWDate Received: 04/29/09

% Moisture: not dec.

Date Analyzed: 05/05/09GC Column: Rtx1ID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L
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

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS SAS No.: _____SDG No.: KEY-URS062

Matrix: (soil/water)

WATERLab Sample ID: 0905282-001ASample wt/vol: 5(g/mL) MLLab File ID: E6938.D

Level: (low/med)

LOWDate Received: 05/01/09

% Moisture: not dec.

Date Analyzed: 05/05/09GC Column: Rtx1ID: .32 (mm)Dilution Factor: 1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	3.5	
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	4.7	J

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2

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905282-002A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6939.D
 Level: (low/med) LOW Date Received: 05/01/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg) <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)	1.2	I

6/23/09
2

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-URS062
 Matrix: (soil/water) WATER Lab Sample ID: 0905282-003A
 Sample wt/vol: 5 (g/mL) ML Lab File ID: E6940.D
 Level: (low/med) LOW Date Received: 05/01/09
 % Moisture: not dec. Date Analyzed: 05/05/09
 GC Column: Rtx1 ID: .32 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

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

VOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water)

WATER

Lab Sample ID:

0905282-004ASample wt/vol: 5(g/mL) ML

Lab File ID:

E6941.D

Level: (low/med)

LOW

Date Received:

05/01/09

% Moisture: not dec.

Date Analyzed:

05/05/09GC Column: Rtx1ID: .32 (mm)

Dilution Factor:

1.00

Soil Extract Volume:

(µL)

Soil Aliquot Volume

(µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
71-43-2	Benzene	2.8	
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-01

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905063-007BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46677.DLevel: (low/med) LOWDate Received: 04/25/09% Moisture: Decanted: (Y/N) NDate Extracted: 04/28/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 05/01/09Injection 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	1		J
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	15		
83-32-9	Acenaphthene	11		
86-73-7	Fluorene	5		J
85-01-8	Phenanthrene	4		J
120-12-7	Anthracene	10		U J
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
56-55-3	Benzo (a) anthracene	10		U
218-01-9	Chrysene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
50-32-8	Benzo (a) pyrene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
53-70-3	Dibenzo (a,h) anthracene	10		U
191-24-2	Benzo (g,h,i) perylene	10		U

(1) Cannot be separated from Diphenylamine

6/23/09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-02

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905179-010BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46779.DLevel: (low/med) LOWDate Received: 04/29/09% Moisture: Decanted: (Y/N) NDate Extracted: 05/04/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 05/06/09Injection 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 J
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

4/23/09
2

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-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-011B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C46780.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/06/09

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 J
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

6/23/09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-3D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905282-001BSample wt/vol: 1000. (g/mL) MLLab File ID: A\C46783.DLevel: (low/med) LOWDate Received: 05/01/09% Moisture: Decanted: (Y/N) NDate Extracted: 05/06/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 05/06/09Injection 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	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U J
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

6/23/09
2

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905282-002B

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

Lab File ID: A\C46784.D

Level: (low/med) LOW

Date Received: 05/01/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/06/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

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 J
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

6/23/09

IC
SEMIVOLATILE 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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905282-003B

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

Lab File ID: A\C46785.D

Level: (low/med) LOW

Date Received: 05/01/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/06/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

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 J
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

6/23/09
2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C46768.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: _____ Decanted: (Y/N) N Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/06/09

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 J
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

6/23/09
2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5I

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C46769.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/06/09

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 1800		A D
91-57-6	2-Methylnaphthalene	370 388		A D
208-96-8	Acenaphthylene	130 140		A D S
83-32-9	Acenaphthene		11	
86-73-7	Fluorene		31	S
85-01-8	Phenanthrene		13	
120-12-7	Anthracene		2	S
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

6/23/09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-5IDL

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905179 002BDLSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46790.DLevel: (low/med) LOWDate Received: 04/29/09% Moisture: Decanted: (Y/N) NDate Extracted: 05/04/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 05/07/09Injection Volume: 2 (μ L)Dilution Factor: 50.00GPC 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	1800		D
91-57-6	2-Methylnaphthalene	370		DJ
208-96-8	Acenaphthylene	130		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

6/23/09
2

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-58

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C46770.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

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

6/23/09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-8D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905179-004E

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

Lab File ID: A\C46773.D

Level: (low/med) LOW

Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L Q
91-20-3	Naphthalene	36	
91-57-6	2-Methylnaphthalene	7	J
208-96-8	Acenaphthylene	3	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U J
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

6/23/09

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905179-005B

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

Lab File ID: A\C46774.D

Level: (low/med) LOW

Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

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 J
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

6/23/09

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905179-006B

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

Lab File ID: A\C46775.D

Level: (low/med) LOW

Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

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 J
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

6/23/09
2

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-URS062

Matrix: (soil/water) WATER Lab Sample ID: 0905179-007B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C46776.D

Level: (low/med) LOW Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 05/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

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

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

4/23/09

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905179-008B

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

Lab File ID: A\C46777.D

Level: (low/med) LOW

Date Received: 04/29/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/04/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/06/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L Q
91-20-3	Naphthalene	2	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	23	
83-32-9	Acenaphthene	24	
86-73-7	Fluorene	13	J
85-01-8	Phenanthrene	3	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	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

6/23/09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-12S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905179-009BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46778.DLevel: (low/med) LOWDate Received: 04/29/09% Moisture: Decanted: (Y/N) NDate Extracted: 05/04/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 05/06/09Injection 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 J
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

6/23/09

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-13D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905282-004B

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

Lab File ID: A\C46786.D

Level: (low/med) LOW

Date Received: 05/01/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 05/06/09

Concentrated Extract Volume: 1000 (μ L)

Date Analyzed: 05/06/09

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)	UG/L	Q
91-20-3	Naphthalene	10		U
91-57-6	2-Methylnaphthalene	10		U
208-96-8	Acenaphthylene	5		J
83-32-9	Acenaphthene	2		J
86-73-7	Fluorene	10		U J
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

6/23/09

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905063-001B

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

Lab File ID: A\C46667.D

Level: (low/med) LOW

Date Received: 04/25/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/28/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 04/30/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	39	
83-32-9	Acenaphthene	4	J
86-73-7	Fluorene	9	J
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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

HIMW-13S

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905063-002BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46668.DLevel: (low/med) LOWDate Received: 04/25/09% Moisture: Decanted: (Y/N) NDate Extracted: 04/28/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 04/30/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

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

(1) Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-14D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905063-003B

Sample wt/vol: 500 (g/mL) ML

Lab File ID: A\C46669.D

Level: (low/med) LOW

Date Received: 04/25/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/28/09

Concentrated Extract Volume: 500 (μ L)

Date Analyzed: 04/30/09

Injection Volume: 2 (μ L)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-141

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478

Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905063-004B

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

Lab File ID: A\C46670.D

Level: (low/med) LOW

Date Received: 04/25/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/28/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 04/30/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(µg/L or µg/Kg)	UG/L Q
91-20-3	Naphthalene	1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	17	
83-32-9	Acenaphthene	12	
86-73-7	Fluorene	6	J
85-01-8	Phenanthrene	5	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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HIMW-15D

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Matrix: (soil/water) WATERLab Sample ID: 0905063-005BSample wt/vol: 1000 (g/mL) MLLab File ID: A\C46671.DLevel: (low/med) LOWDate Received: 04/25/09% Moisture: Decanted: (Y/N) NDate Extracted: 04/28/09Concentrated Extract Volume: 1000 (μ L)Date Analyzed: 04/30/09Injection Volume: 2 (μ L)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH: _____Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

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-URS062

Matrix: (soil/water) WATER

Lab Sample ID: 0905063-006B

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

Lab File ID: A\C46676.D

Level: (low/med) LOW

Date Received: 04/25/09

% Moisture: Decanted: (Y/N) N

Date Extracted: 04/28/09

Concentrated Extract Volume: 1000 (µL)

Date Analyzed: 05/01/09

Injection Volume: 2 (µL)

Dilution Factor: 1.00

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

Extraction: (Type) SEPF

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

(1) Cannot be separated from Diphenylamine

6/23/09
m

APPENDIX B

SUPPORT DOCUMENTATION

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ORGANICS
SAMPLES RECEIVED: 4/25/09, 4/29/09 & 5/1/09
SDG #: KEY-URS062

For Sample(s):

HIMW-13I	DUP-01	HIMW-8I	FIELD BLANK
HIMW-13S	TB 042409	HIMW-8S	TRIP BLANK
HIMW-14D	HIMW-5D	HIMW-12D	HIMW-3D
HIMW-14I	HIMW-5I	HIMW-12I	HIMW-3I
HIMW-15D	HIMW-5S	HIMW-12S	HIMW-3S
HIMW-15I	HIMW-8D	DUP-02	HIMW-13D

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-5S was analyzed as the matrix spike/matrix spike duplicate. All percent recoveries and RPD's were met. A lab-fortified blank was analyzed and indicate good method efficiency.

Ethyl benzene had a 25.2 %RSD in the initial calibration of 4/30/09.

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: May 26, 2009

*  *
* *

Joann M. Slavin
Senior Vice President

KEY-URS062 A3

H2M LABS, INC.

SDG NARRATIVE FOR SEMIVOLATILE ORGANICS
SAMPLE RECEIVED: 4/25/09, 4/29/09 & 5/1/09
SDG #: KEY-URS062

For Sample(s):

HIMW-13I	HIMW-5I	DUP-02
HIMW-13S	HIMW-5S	FIELD BLANK
HIMW-14D	HIMW-8D	HIMW-3D
HIMW-14I	HIMW-8I	HIMW-3I
HIMW-15D	HIMW-8S	HIMW-3S
HIMW-15I	HIMW-12D	HIMW-13D
DUP-01	HIMW-12I	
HIMW-5D	HIMW-12S	

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-5S 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 were 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: May 20, 2009

*  *
*

Joann M. Slavin
Senior Vice President

KEY-URS062 A4

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076

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

PROJECT NAME/NUMBER

NATIONAL GRID - HEMPSTEAD

NO - 11175065

SAMPLERS: (signature)/Client

JOANNE WRIGHT } URS SPEN, NY
DAVID SWAIN

DELIVERABLES:

TURNAROUND TIME:

DATE	TIME MATRIX	FIELD I.D.
4/23	9:50	H1M1W-15I
4/23	11:20	H1M1W-15D
		TRP BUNK
4/23	2:45	H1M1W-14D
4/24	11:35	H1M1W-14I
4/24	1:35	H1M1W-13S
4/24	11:45	DUR-01
4/24	15:10	H1M1W-13I

29431

EXTERNAL CHAIN OF CUSTODY

KEY-URS 062

CLIENT: URS

NOTES:

H2M SDG NO: URS-062-01TM
4/24

Project Contact:
KEVIN CONNARE

Phone Number:
716.923.1165

PIS/Quote #

Sample Container Description	ANALYSIS REQUESTED		
	ORGANIC	INORG.	Metal
Matrix (GW82FCB)			
PHS (GW82F0C)			
TRP BUNK			

Total No. of Containers	ANALYSIS REQUESTED			LAB I.D. NO.	REMARKS:
	ORGANIC	INORG.	Metal		
2				0705063-006AB	
2				-005AB	
2				-008A	
2				-003AB	
2				-004AB	
2				-002AB	
2				-007AB	
2				-001AB	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
JWG	4/24/09	17:00	FED EX	4/24/09	11:30
FED EX				4/27/09	10:00
	4/24/09	11:35	Moatt M		

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
 1. Shipped or Hand Delivered Airbill# _____
 2. Ambient or chilled, Temp. 3.2
 3. Received in good condition: or N
 4. Properly preserved: or N

COC Tape was:
 1. Present on outer package: or N
 2. Unbroken on outer package: Y or N
 3. COC record present & complete upon sample receipt:
 or N 8695 8425 4268

KAHTEL060620ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist

KEY-URS 062

Client Name KEY-URS

Date and Time Received: 4/25/2009 11:35:00 AM

Work Order Number 0905063

Received by MJMa

Checklist completed by

Matt M/
Signature

4/27/09
Date

Reviewed by

SA
Initials

4/29/09
Date

Matrix:

Carrier name FedEx

- 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? Yes No
- 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: There was one broken ILAMG for HIMW-14D and one broken vial for DUP-01.

Corrective Action NO SPARE

KEY-URS062 A7

H2M LABS, INC.

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

29432

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER: NATIONAL GRID - HEMPSTED 11175065

SAMPLERS: (signature)/Client: JOANNE WRIGHT } URS. SPENW, NY.
DAVID SWAN }

DELIVERABLES:

TURNAROUND TIME:

CLIENT: URS H2M SDG NO: KEY-URS 062

Project Contact: KEVIN CONNORRE

Phone Number: 716.923.1165

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	ANALYSIS REQUESTED				INORG.	REMARKS:
				VOA	BNA	PCB	Metals		
			TRIP BLANKS						
4/27	1:00		Hmw - 12S	2	2	2	2		0905179 - 012 A
4/27	11:50		Hmw - 12I	2	2	2	2		-009 AB
4/27	10:30		Hmw - 12O	2	2	2	2		-008
4/27	1:20		DUP-02	2	2	2	2		-007
4/28	1:30		Hmw - 5S	2	2	2	2		-010
4/28	12:40		Hmw - 5I	2	2	2	2		-003
4/28	10:50		Hmw - 5D	2	2	2	2		-002
				2	2	2	2		-001

NOTES:

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

LABORATORY USE ONLY

Samples were:

- Shipped or Hand Delivered
- Ambient or chilled, Temp
- Received in good condition: Y or N
- Properly preserved: Y or N

COC Taps was:

- Present on outer package: Y or N
- Unbroken on outer package: Y or N
- COC record present & complete upon sample receipt: Y or 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

Relinquished by: (Signature) Date Time Received by: (Signature) Date Time

YELLOW COPY - CLIENT PINK COPY - LABORATORY

KW WHITE B06062 ORIGINAL

H2M LABS, INC.

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

29430

EXTERNAL CHAIN OF CUSTODY

CLIENT: URS

PROJECT NAME/NUMBER: NATIONAL GRID - HEMPSTEAD
11175065

SAMPLERS: (signature)/Client
JOANNE WRIGHT } URS SPENN

DELIVERABLES:

TURNAROUND TIME:

CLIENT: URS

H2M SDG NO: KEY-URS062

Project Contact: KEVIN CONNARE

Phone Number: 716.923.1165

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	ANALYSIS REQUESTED			REMARKS:
				ORGANIC	INORG.	Metal	
			TRIP BLANK				
4/29	12:55		HIMW-8S	2 2			0905179 - 006 AB
4/29	11:40		HIMW-8I	2 2			- 005 ↓
4/29	10:35		HIMW-8D	2 2			- 004 ↓
			HIMW-13D				
			HIMW-3S				
			HIMW-3I				
			HIMW-3D				
4/28	1:30		MS/MO - HIMW-SS	2 2			0905179 - 003 AB
4/28	7:28		FIELD BLANK	2 2			- 011 ↓

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

SAMPLES WERE:

1. Shipped or Hand Delivered ___ Airbill# _____
2. Ambient or chilled, Temp. _____
3. Received in good condition: Y or N _____
4. Property preserved: Y or N _____

COC TAGS WERE:

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) [Signature] **Date** 4/29 **Time** 13:35 **Received by: (Signature)** S.Wed **Date** 4/29 **Time** 13:35

Relinquished by: (Signature) [Signature] **Date** 4/29 **Time** 14:28 **Received by: (Signature)** [Signature] **Date** 4/29 **Time** 14:28

Relinquished by: (Signature) [Signature] **Date** _____ **Time** _____ **Received by: (Signature)** _____ **Date** _____ **Time** _____

Relinquished by: (Signature) [Signature] **Date** _____ **Time** _____ **Received by: (Signature)** _____ **Date** _____ **Time** _____

KEY-URS062 ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist

KEY-URS 062

Client Name KEY-URS

Date and Time Received: 4/29/2009 2:28:00 PM

Work Order Number 0905179

Received by MJMa

Checklist completed by Matt W/E 4/29/09
Signature Date

Reviewed by JSA 4/30/09
Initials Date

Matrix: Carrier name Hand Delivered

- 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: 4/29/09 Person contacted JOANN WRIGHT
Contacted by: JEW ABACHI Regarding _____

Comments: AS PER JOANN WRIGHT MS/MSD IS SAMPLE #1MW-SS
COLLECTED ON 4/28 AT 13:30.

Corrective Action _____

KEY-URS062 A14

H2M LABS, INC.

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

27713

EXTERNAL CHAIN OF CUSTODY

PROJECT NAME/NUMBER NATIONAL GRID, HEMPSTEAD NO. 1175065		CLIENT: WRS		H2M SDG NO: KEY-045062	
SAMPLERS: (signature)/Client DANNE WRIGHT } WRS SPEW - DAVID SWAIN		Project Contact: KEVIN CONNARE		Phone Number: 716.923.1165	
DELIVERABLES:		Notes:		PIS/Quote # 1175065	
TURNAROUND TIME:		ANALYSIS REQUESTED		LAB I.D. NO.	
DATE TIME MATRIX FIELD I.D.		ORGANIC INORG.		REMARKS:	
4/30 13:00 HMMW - SS 3I		MeB NO		0905782 -003	
4/30 12:40 HMMW - SS 3I		MeB NO		-002	
4/30 10:00 HMMW - SS 3D		MeB NO		-001	
5/1 1:45 HMMW - 13D		MeB NO		-004	
Relinquished by: (Signature) <i>D Wright</i> Date 5/1/09 Time 2:10		Received by: (Signature) <i>S. Swain</i> Date 5-1-09 Time 14:10		LABORATORY USE ONLY	
Relinquished by: (Signature) <i>S. Swain</i> Date 5-1-09 Time 15:17		Received by: (Signature) <i>[Signature]</i> Date 5/1/09 Time 15:17		Discrepancies Between Sample Labels and COC Record? Y or N Explain:	
Relinquished by: (Signature)		Received by: (Signature)		Samples were: 1. Shipped ___ or Hand Delivered <input checked="" type="checkbox"/> Airbill# 2. Ambient or chilled, Temp. <u>7.16</u> C/N/I/C/E 3. Received in good condition? <input checked="" type="checkbox"/> Y or N 4. Properly preserved: Y or N	
Relinquished by: (Signature)		Received by: (Signature)		COC I.D. NO. WRS: 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	

KWATELUBS0620109AL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

Sample Receipt Checklist

Client Name KEY-URS

Date and Time Received:

5/1/2009 3:17:00 PM

Work Order Number 0905282

Received by dmc

Checklist completed by

[Signature] 5/4/09
Signature Date

Reviewed by

[Signature] 5/1/09
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 YES Date contacted: 5/3/09 Person contacted BANNE WRIGHT
PETER FARREBANKS
Contacted by: JEN GRACI Regarding _____

Comments: SAMPLES RECEIVED AT 7.6°C. SAMPLES HIMW-3D, 3E, 3S RECEIVED
OUT OF TEMPERATURE COMPLIANCE. FOR SAMPLES HIMW-3D, 3E, AN 3S; SAMPLE
ID AND COLLECTION TIME ON COC DID NOT MATCH BOTTLE LABELS

Corrective Action CONTACTED CLIENT 5/4 TO INFORM OF TEMPERATURE AND
CLARIFY SAMPLE ID DISCREPANCY.

SAMPLE HIMW-13D WAS RECEIVED AT 7.6°C. ICE WAS PRESENT
IN COOLER, SAMPLE DID NOT HAVE TIME TO REACH PROPER TEMPERATURE

KEY-URS062 S17

TCL VOLATILES 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-URS062
 Instrument ID: HP5973I Calibration Dates: 4/30/2009 4/30/2009
 Heated Purge: (Y/N) N Calibration Times: 18:51 22:07
 GC Column: Rtx1 ID: .32 (mm)

COMPOUND	VSTD001= E6864.D						VSTD010= E6858.D						VSTD020= E6859.D						VSTD050= E6860.D						VSTD100= E6861.D					
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	RSD	R ²			
Carbon tetrachloride	0.4507433	0.414254	0.5243346	0.5501927	0.5331377	0.5433458																			0.503	11.2				
Benzene	1.2393716	1.0303157	1.3385625	1.4188279	1.4994699	1.6096204																			1.356	15.1				
1,2-Dichloroethane	5.1819699	4.1408696	4.5510679	4.7467165	5.0826770	5.0695652																			4.795	8.3				
Trichloroethane	0.3582571	0.2333886	0.3117220	0.3426763	0.3335931	0.3906871																			0.328	16.3				
1,2-Dichloropropane	* 0.345555	0.2934001	0.3461665	0.3770007	0.3785219	0.4325793																			0.362	12.8	*			
Bromodichloromethane	0.5911567	0.4909972	0.5574752	0.5806506	0.5909702	0.6359886																			0.575	8.4				
cis-1,3-Dichloropropene	0.4425863	0.3677052	0.4932714	0.5891914	0.627471	0.7152475																			0.539	23.8				
4-Methyl-2-pentanone	0.4062346	0.4423322	0.4951493	0.5364401	0.6227169	0.5780303																			0.513	15.9				
Toluene	* 0.7587179	0.7246993	0.9321613	0.9769890	1.0160288	1.1075159																			0.919	16.3	*			
trans-1,3-Dichloropropene	0.4558566	0.3702154	0.4963704	0.5834366	0.6372825	0.7216813																			0.544	23.5				
1,1,2-Trichloroethane	0.3675672	0.2977463	0.3228486	0.3369022	0.3463145	0.3861603																			0.341	8.8				
Tetrachloroethene	0.2803177	0.1904841	0.2432026	0.264688	0.2682865	0.2961613																			0.257	14.4				
2-Hexanone	0.3134169	0.2470256	0.2943921	0.3459547	0.4301722	0.3994005																			0.338	20.1				
Dibromochloromethane	0.3900328	0.3541179	0.4107216	0.4390003	0.4658071	0.5113398																			0.429	13.1				
1,2-Dibromoethane	0.3877736	0.302262	0.3372194	0.3544182	0.3969819	0.4024075																			0.364	10.8				
Chlorobenzene	* 1.1772598	0.8592320	1.0407220	1.0736852	1.1526309	1.2336539																			1.090	12.2	*			
Ethylbenzene	* 0.3378451	0.3153093	0.4621733	0.5222102	0.5513757	0.603952																			0.465	25.2	*			
m,p-Xylene	0.4375856	0.4462814	0.6208261	0.6776808	0.7238778	0.7846733																			0.615	23.5				
o-Xylene	0.4588204	0.4843869	0.6617321	0.7172752	0.7809180	0.8153693																			0.653	23.0				
Xylene (total)	0.4588204	0.4843869	0.6617321	0.7172752	0.7809180	0.8153693																			0.653	23.0				
Styrene	0.6797926	0.6263526	0.9527188	1.1065608	1.2474232	1.355814																			0.995	29.9				
Bromoform	* 0.2718988	0.2386422	0.2705559	0.2956999	0.3314299	0.3579112																			0.294	14.9	*			
1,1,2,2-Tetrachloroethane	* 0.6212862	0.5140373	0.5464829	0.5552804	0.6306110	0.6077688																			0.579	8.1	*			

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC.

Contract: _____

Lab Code: 10478Case No.: KEY-URS

SAS No.: _____

SDG No.: KEY-URS062Instrument ID: HP5972Calibration Date: 5/1/09Time: 11:41Lab File ID: A\C46675.DInit. Calib. Date(s): 04/28/09 04/28/09EPA Sample No. (SSTD050##): SSTD025Init. Calib. Times: 12:26 15:01GC Column: R-5SILMSID: .25 (mm)

COMPOUND	RRF		MIN	%D	MAX
	RRF	RRF50	RRF		%D
Naphthalene	1.047	1.091		4.2	
2-Methylnaphthalene	0.653	0.685		4.9	
Acenaphthylene	1.998	2.111		5.7	
Acenaphthene	1.222	1.269		3.8	20.0
Fluorene	1.353	1.426		5.4	
Phenanthrene	1.222	1.347		10.2	
Anthracene	1.221	1.470		20.4	
Fluoranthene	1.223	1.374		12.3	20.0
Pyrene	1.310	1.268		-3.2	
Benzo(a)anthracene	1.187	1.185		-0.2	
Chrysene	0.970	1.017		4.8	
Benzo(b)fluoranthene	1.532	1.502		-2.0	
Benzo(k)fluoranthene	0.999	1.080		8.1	
Benzo(a)pyrene	1.200	1.180		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.270	1.245		-2.0	
Dibenzo(a,h)anthracene	1.042	1.043		0.1	
Benzo(g,h,i)perylene	1.016	0.995		-2.0	

All other compounds must meet a minimum RRF of 0.010.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: H2M LABS, INC. Contract: _____
Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062
Lab File ID: A\C46762.D DFTPP Injection Date: 05/06/09
Instrument ID: HP5972 DFTPP Injection Time: 11:51

20	HIMW-3I	0905282-002B	AIC46784.D	05/06/09	22:32
21	HIMW-3S	0905282-003B	AIC46785.D	05/06/09	23:01
22	HIMW-13D	0905282-004B	AIC46786.D	05/06/09	23:31

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____
 Lab Code: 10478 Case No.: KEY-URS SAS No.: _____ SDG No.: KEY-URS062
 Instrument ID: HP5972 Calibration Date: 5/6/09 Time: 12:07
 Lab File ID: A\C46763.D Init. Calib. Date(s): 04/28/09 04/28/09
 EPA Sample No. (SSTD050##): SSTD025 Init. Calib. Times: 12:26 15:01
 GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Naphthalene	1.047	1.120		6.9	
2-Methylnaphthalene	0.653	0.726		11.2	
Acenaphthylene	1.998	2.155		7.9	
Acenaphthene	1.222	1.387		13.5	20.0
Fluorene	1.353	1.650		21.9	
Phenanthrene	1.222	1.212		-0.8	
Anthracene	1.221	1.281		4.9	
Fluoranthene	1.223	1.303		6.5	20.0
Pyrene	1.310	1.155		-11.8	
Benzo(a)anthracene	1.187	1.119		-5.7	
Chrysene	0.970	0.995		2.5	
Benzo(b)fluoranthene	1.532	1.670		9.0	
Benzo(k)fluoranthene	0.999	0.931		-6.8	
Benzo(a)pyrene	1.200	1.201		0.1	20.0
Indeno(1,2,3-cd)pyrene	1.270	1.343		5.7	
Dibenzo(a,h)anthracene	1.042	1.089		4.5	
Benzo(g,h,i)perylene	1.016	1.063		4.7	

All other compounds must meet a minimum RRF of 0.010.